

## Release Version v22.3 – March 10, 2022

### Modules

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Device Pack v 22.3

### Supported Systems

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Mainconsole	v 4.1.12 and above / v.6.11.0 above <sup>1</sup>
NVRmini 2	v 2.1.0 and above <sup>2</sup>
NVRsolo	v 1.1.1 and above <sup>2</sup>
Titan NVR	v 1.6.2 and above
NUUO Crystal™	v 2.0.3 and above
NVRmini3	v 04.01.0000.32 and above

### New Brand

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### New Camera

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Forenix	AI-2065BM (by NRSeries)
SANTEC	Generic

### Enhancement

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- [Mainconsole/Crystal][Forenix][NRSeries / NISeries] <sup>3</sup>  
Support AI event  
Firmware Ver.: VMC1.A.0.6 and VMC1.A.0.2 TG  
Event list: Area1 Detection, Area2 Detection, Area3 Detection,  
Area4 Detection, Area5 Detection  
Event Type: Area, Queue, Crowd, Intrusion, Loiter, Line  
Know issue: Trigger Output needs to be manually closed. (Crystal)

## Bugfixes

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### [MainConsole]

- [JACQUES] Fixed high CPU load when connecting to Jacques devices.

### [NUUO Crystal™/NVRMini3/NVRMini2/NVRsolo+/NVRsolo]

- [Crystal][Vivotek] Abnormal connection, disconnection problem from time to time.
- [Forenix] NISeries/NRSeries can not set bitrate between 1Mbps to 4Mbps.

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- 1 For Mainconsole multi-stream and setting function, please upgrade to Mainconsole v5.0.0 and above first.If camera is added or upgraded firmware after v4.0, it will support multistream setting.  
For Mainconsole H.265, please upgrade to Mainconsole v6.0 and above first.  
For the DP5.9 upgrade, please upgrade to Mainconsole v.6.11.0 and above first.
  - 2 For NVRmini 2 and NVRsolo multi-stream setting function, please upgrade to NVRmini 2/NVRsolo v2.0.0 and above first.
  - 3 Performance issue: NRSeries / NISeries will not support HTTP protocol on Mainconsole.  
Device Pack v22.1 and v22.3 Support AI event are not compatible.

## Release Version v22.1 – January 13, 2022

### Modules

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Device Pack v 22.1

### Supported Systems

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Mainconsole	v 4.1.12 and above / v.6.11.0 above <sup>1</sup>
NVRmini 2	v 2.1.0 and above <sup>2</sup>
NVRsolo	v 1.1.1 and above <sup>2</sup>
Titan NVR	v 1.6.2 and above
NUUO Crystal™	v 2.0.3 and above
NVRmini3	v 04.01.0000.32 and above

### New Brand

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### New Camera

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Hanwha	PNM-900QB
Pelco	IBP322-1R 、 P2230L-ESR
Dahua	IPC-PDBW5831P-B360 (Mainconsole isn't support yet)

### Enhancement

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- [Mainconsole/Crystal][Forenix] Support AI event (Firmware Ver. : VKD1.1.1.40)  
Event list: Area1 Detection, Area2 Detection
- [Mainconsole][Forenix] Support three edge event.  
Event list: Tampering, Sound, SD card error

## Bugfixes

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### [All]

- [Forenix] NISeries/NRSeries Fix the sub-stream cannot be connected.

### [MainConsole]

- [ONVIF] Fixed MainConsole crashing when handling illegally large FPS values.
- [Hikvision] Maintain IO status handler.

### [NUUO Crystal™/NVRMini3/NVRMini2/NVRsolo+/NVRsolo]

- [Crystal][Vivotek] Connection exception, unable to get parameters.
- [Forenix] NISeries/NRSeries can not get correct FPS options

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- 4 For Mainconsole multi-stream and setting function, please upgrade to Mainconsole v5.0.0 and above first.If camera is added or upgraded firmware after v4.0, it will support multistream setting.  
For Mainconsole H.265, please upgrade to Mainconsole v6.0 and above first.  
For the DP5.9 upgrade, please upgrade to Mainconsole v.6.11.0 and above first.
  - 5 For NVRmini 2 and NVRsolo multi-stream setting function, please upgrade to NVRmini 2/NVRsolo v2.0.0 and above first.

## Release Version v21.10 – October 20, 2021

### Modules

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Device Pack v 21.10

### Supported Systems

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Mainconsole	v 4.1.12 and above / v.6.11.0 above <sup>1</sup>
NVRmini 2	v 2.1.0 and above <sup>2</sup>
NVRsolo	v 1.1.1 and above <sup>2</sup>
Titan NVR	v 1.6.2 and above
NUUO Crystal™	v 2.0.3 and above
NVRmini3	v 04.01.0000.32 and above

### New Brand

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### New Camera

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Vivotek	MA9322-EHTV	
Forenix	NI Series	NIPX-2065DN

### Enhancement

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- [Crystal][ONVIF] Onvif/Onvif 17.06 enable manual adjustment of fisheye function

### Bugfixes

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#### [All]

- [NUUO] BL-7314 cannot focus continuously.
- [NUUO] BL-7314 Input status is abnormal.

#### [MainConsole]

- [Hunt] Fix the issue of Mainconsole startup time is too long.

- [ONVIF] Fix the issue of MainConsole crash caused by connecting Onvif device.

**[NUUO Crystal™/NVRMini3/NVRMini2/NVRsolo+/NVRsolo]**

- [NUUO] Repair DM-7314 to enable supported talk.
- [Forenix] Repair NI Series and NR Series can be searched and identified.
- [Forenix] Repair NSPDII-2065-20X can be searched and identified.
- [Vivotek] Repair PTZ camera default speed too slow.

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- 1 For Mainconsole multi-stream and setting function, please upgrade to Mainconsole v5.0.0 and above first.If camera is added or upgraded firmware after v4.0, it will support multistream setting.  
For Mainconsole H.265, please upgrade to Mainconsole v6.0 and above first.  
For the DP5.9 upgrade, please upgrade to Mainconsole v.6.11.0 and above first.
  - 2 For NVRmini 2 and NVRsolo multi-stream setting function, please upgrade to NVRmini 2/NVRsolo v2.0.0 and above first.

## Release Version v21.8 – August 24, 2021

### Modules

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Device Pack v 21.8

### Supported Systems

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Mainconsole	v 4.1.12 and above / v.6.11.0 above <sup>1</sup>
NVRmini 2	v 2.1.0 and above <sup>2</sup>
NVRsolo	v 1.1.1 and above <sup>2</sup>
Titan NVR	v 1.6.2 and above
NUUO Crystal™	v 2.0.3 and above
NVRmini3	v 04.01.0000.32 and above

### New Brand

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HI SHARP <sup>3</sup>

### New Camera

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Hanwha	QNO-8080R, XNO-9082R, XNO-6085R
TVT	TD-9423A3 <sup>4</sup>
HI SHARP	T Series <sup>5</sup>
NUUO	BL3122, DM3122, DM-7314, DM-3102, BL-7314 <sup>6</sup>
Forenix	NI Series NIPX-2065DN, NIPD-2065CD, NIPD-2065CD-M, NIPV-2065CD-M, NIPB-2065BM, NIPB-2065BM-M, NIPD-4065CD, NIPD-4065CD-M, NIPV-4065CD, NIPV-4065CD-M, NIPB-4065BM, NIPB-4065BM-M, NIPV-2065CD
	NR Series NRPD-2065MF, NRPB-2065BM, NRPD-2065CD, NRPV-2065CD, NRPB-2065F28

### Enhancement

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- [Forenix] NI Series Firmware updated to VT2.0.0.5\_TG
- [Forenix] NR Series Firmware updated to VMC1.0.0.14\_TG

## Bugfixes

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### [MainConsole]

- [Axis] Fix the issue of frequent disconnection causes MainConsole crash.
- [Hikvision] Fix the issue of frequent disconnection causes MainConsole crash.
- [Onvif] Fix the issue of MainConsole crash caused by connecting Onvif device.

### [NUUO Crystal™/NVRMini3/NVRMini2/NVRsolo+/NVRsolo]

- [Dahua] Update connection process.
- [RTSP] Some resolutions cannot use RTSP connection.

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- 1 For Mainconsole multi-stream and setting function, please upgrade to Mainconsole v5.0.0 and above first.If camera is added or upgraded firmware after v4.0, it will support multistream setting.  
For Mainconsole H.265, please upgrade to Mainconsole v6.0 and above first.  
For the DP5.9 upgrade, please upgrade to Mainconsole v.6.11.0 and above first.
  - 2 For NVRmini 2 and NVRsolo multi-stream setting function, please upgrade to NVRmini 2/NVRsolo v2.0.0 and above first.
  - 3 HI SHARP currently only supports Mainconsole.
  - 4 TVT TD-9423A3 starts to support Mainconsole.
  - 5 HI SHARP T Series audio only support G.711u
  - 6 DM-7314, DM-3102, BL-7314 only support NAS products (Crystal™/NVRMini3/NVRMini2/NVRsolo+/NVRsolo).



## Release Version v21.5 (2021/06/10)

### Modules:

**Device Pack**                      **v 21.5**

### Supported Systems:

Mainconsole	v 4.1.12 and above* / v.6.11.0 above**
NVRmini 2	v 2.1.0 and above***
NVRsolo	v 1.1.1 and above***
Titan NVR	v 1.6.2 and above
NUUO Crystal™	v 2.0.3 and above
NVRmini3	V 04.01.0000.32 and above

### Note:

- \*For Mainconsole multi-stream and setting function, please upgrade to Mainconsole v5.0.0 and above first.
- \* For Mainconsole H.265, please upgrade to Mainconsole v6.0 and above first.
- \*\*For the DP5.9 upgrade, please upgrade to Mainconsole v.6.11.0 and above first.
- \*\*\*For NVRmini 2 and NVRsolo multi-stream setting function, please upgrade to NVRmini 2/NVRsolo v2.0.0 and above first.

**If camera is added or upgraded firmware after v4.0, it will support multistream setting.**

### New Camera Supported :

<b>Oncam</b>	EVO-12-NID	
<b>TVT</b>	TD-9423A3	(NAS Only)
<b>NUUO</b>	BL3122, DM3122 (Brand update)	(NAS Only)

### Enhancement:

1. [Forenix] NI Series Firmware updated to VT1.0.0.0\_TG
2. [Generic] RTSP supports the recognition of H.265 video types.

### Issue Fixed:

#### [MainConsole]

1. [Panasonic] Fix the Mainconsole damage when using Panasonic camera and starting Smart Guard System issue.
2. [JACQUES] CPU usage overload issue.
3. [Zavio] Probably cause Mainconsole to stop the running issue.

#### [NVRMini3/NVRMini2/NVRsolo/NUUO Crystal™]

1. [LG] Fixed PTZ inoperable.
2. [Vivotek] Fix the connection mechanism to avoid unable to connect.
3. [Arecont] Fix unable to connect issue.
4. [Hikvision] Fix the issue of unable to display parameters.
5. [Hikvision] Fix DS-2PT3326IZ-DE3 display error of the lens.
6. [ViZoiD] Crystal Server CPU usage overload issue.
7. [Onvif] Adjust the Profile G mechanism to avoid abnormal connection.

## Release Version v21.2 (2021/03/03)

### Modules:

**Device Pack**                      **v 21.2**

### Supported Systems:

Mainconsole	v 4.1.12 and above* / v.6.11.0 above**
NVRmini 2	v 2.1.0 and above***
NVRsolo	v 1.1.1 and above***
Titan NVR	v 1.6.2 and above
NUUO Crystal™	v 2.0.3 and above
NVRmini3	V 04.01.0000.32 and above

### Note:

- \*For Mainconsole multi stream and setting function, please upgrade to Mainconsole v5.0.0 and above first.
- \* For Mainconsole H.265, please upgrade to Mainconsole v6.0 and above first.
- \*\*For DP5.9 upgrade, please upgrade to Mainconsole v.6.11.0 and above first.
- \*\*\*For NVRmini 2 and NVRsolo multi stream setting function, please upgrade to NVRmini 2/NVRsolo v2.0.0 and above first.

**If camera is added or upgraded firmware after v4.0, it will support multistream setting.**

### New Camera Supported:

<b>Forenix</b>	NISeries
<b>Champ</b>	HN G Series, DMP-5102
<b>Norden</b>	ENV-HBU5V-50R-20

### Enhancement:

1. Support mini3 device package update.
2. [CHAMP] DM3122 Support UDP connection.
3. [Vivotek] Smart VCA Support Mainconsole.

### Issue Fixed:

#### [All]

1. [Hanwha] Fixed Generic Unable to connect issues for X series.

#### [MainConsole]

2. [Vivotek] Fixed when adding IB9365-HT, the MainConsole will get stuck issue.

#### [NVRMini3/NVRMini2/NVRsolo/NUUO Crystal™]

3. [Hikvision] Fixed cannot receive edge motion.

### Know Issue:

1. Norden
  - i. [MainConsole] Output trigger cannot sync real-time status.
  - ii. [MainConsole] The maximum fps of Stream3 only supports 25fps.
  - iii. [MainConsole] Camera auto sync time server might let recording disconnect few mins.

## Release Version v20.12 (2020/12/30)

### Modules:

<b>Device Pack</b>	<b>v 20.12</b>
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### Supported Systems:

Mainconsole	v 4.1.12 and above* / v.6.11.0 above**
NVRmini 2	v 2.1.0 and above***
NVRsolo	v 1.1.1 and above***
Titan NVR	v 1.6.2 and above****
NUUO Crystal™	v 2.0.3 and above

### Note:

- \*For Mainconsole multi stream and setting function, please upgrade to Mainconsole v5.0.0 and above first.
- \* For Mainconsole H.265, please upgrade to Mainconsole v6.0 and above first.
- \*\*For DP5.9 upgrade, please upgrade to Mainconsole v.6.11.0 and above first.
- \*\*\*For NVRmini 2 and NVRsolo multi stream setting function, please upgrade to NVRmini 2/NVRsolo v2.0.0 and above first.

**If camera is added or upgraded firmware after v4.0, it will support multistream setting.**

### New Camera Supported:

<b>Forenix</b>	NPB-6065BMS-M
<b>Champ</b>	DM3122
<b>NUUO</b>	BL7314

### FW upgrade:

<b>Samsung</b>	PNV-9080R(FW: 4.00_200617)
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### Enhancement:

1. [Onvif] Support new profile "ProfileG".
2. [Vivotek] Vivotek support VCA version update to 6.8.3.0-2b.  
Add event: Crowd Detection, Unattended Detection,  
Missing Detection, Face Detection, Running Detection.

### Issue Fixed:

#### [All]

1. [Hanwha] Fixed Unable to connect issues.
2. [Panasonic] Fixed Unable to connect issues.
3. [Samsung] Fixed PNV-9080R cannot change the second stream profile issue.

#### [MainConsole]

4. [Language] Fixed Russian translation camera settings page issue.

#### [NVRMini2/NVRsolo/NUUO Crystal™]

5. [Hikvision] Fixed Generic Server increases the compatibility of controlling PTZ
6. [Hikvision] Fixed the zoom could not be stopped issue.
7. [Axis] Fixed abnormal disconnection issue.
8. [Vivotek] Fixed automatic disconnection issue.

Notice:

2. Champ
  - a. DM3122
    - i. Only support TCP connection, UDP connection is not yet supported.
3. Vivotek
  - a. Smart VCA
    - i. New version is support NUUO Crystal™ only.

## Release Version v20.9 (2020/9/30)

### Modules:

**Device Pack**                      **v 20.9**

### Supported Systems:

Mainconsole	v 4.1.12 and above* / v.6.11.0 above**
NVRmini 2	v 2.1.0 and above***
NVRsolo	v 1.1.1 and above***
Titan NVR	v 1.6.2 and above****
NUUO Crystal™	v 2.0.3 and above

### Note:

\*For Mainconsole multi stream and setting function, please upgrade to Mainconsole v5.0.0 and above first.

\* For Mainconsole H.265, please upgrade to Mainconsole v6.0 and above first.

\*\*For DP5.9 upgrade, please upgrade to Mainconsole v.6.11.0 and above first.

\*\*\*For NVRmini 2 and NVRsolo multi stream setting function, please upgrade to NVRmini 2/NVRsolo v2.0.0 and above first.

\*\*\*\* Since the DP 20.9 will not support Titan NVR.

**If camera is added or upgraded firmware after v4.0, it will support multistream setting.**

### New Brand Supported:

**ViZoiD\***

### New Camera Supported:

**ViZoiD\***                      VZ-N115-123001, VZ-N116-133001-FE130, VZ-N116-133001-FE180

**Champ**                      DM5115V3

**Forenix**                      NPE-2065BM-M, NPE-2065BM-10X, NPE-2065BM-30X, NPA-2065BM-M, NPA-2065BM-10X, NPA-2065CD-M, NPB-4065F28

### FW upgrade:

**Forenix**                      NPB-4065BM-M, NPX-4065DN, NPD-4065CD, NPB-4065BM, NPV-4065CD, NPV-4065CD-M, NPB-4065BL-M

### Bug Fixed:

#### [MainConsole]

1. [Samsung] Fixed PNV-9080R profile issue.
2. [Language] Fixed Russian translation issue.

## [NVRMini2/NVRsolo/NUUO Crystal™]

3. [Forenix] Fixed NSPDII-2065-20X stream change RTSP port issue.
4. [Samsung] Fixed PNV-9080R profile issue.
5. [Hikvision] Fixed Zoom can't stop on all PTZ camera issue.

Notice:

\* Support Mainconsole and NUUO Crystal™ only.

## Release Version v20.7 (2020/8/3)

### Modules:

**Device Pack**                      **v 20.7**

### Supported Systems:

Mainconsole	v 4.1.12 and above* / v.6.11.0 above**
NVRmini 2	v 2.1.0 and above***
NVRsolo	v 1.1.1 and above***
Titan NVR	v 1.6.2 and above
NUUO Crystal™	v 2.0.3 and above

### Note:

\*For Mainconsole multi stream and setting function, please upgrade to Mainconsole v5.0.0 and above first.

\* For Mainconsole H.265, please upgrade to Mainconsole v6.0 and above first.

\*\*For DP5.9 upgrade, please upgrade to Mainconsole v.6.11.0 and above first.

\*\*\*For NVRmini 2 and NVRsolo multi stream setting function, please upgrade to NVRmini 2/NVRsolo v2.0.0 and above first.

**If camera is added or upgraded firmware after v4.0, it will support multistream setting.**

### New Camera Supported:

<b>Vivotek</b>	FE9391-EV
<b>Forenix</b>	NSPDII-2065-20X

### Bug Fixed:

#### [MainConsole]

1. [Onvif] Fixed admin user notice issue.
2. [Onvif] Fixed Onvif Camera Home button cause MC crash issue.

#### [NVRMini2/NVRsolo/Titan NVR/NUUO Crystal™]

3. [Vivotek] Fixed Get Parameter timeout issue.

Notice:

## Release Version v20.6 (2020/6/2)

### Modules:

**Device Pack**                      **v 20.6**

### Supported Systems:

Mainconsole	v 4.1.12 and above* / v.6.11.0 above**
NVRmini 2	v 2.1.0 and above***
NVRsolo	v 1.1.1 and above***
Titan NVR	v 1.6.2 and above
NUUO Crystal™	v 2.0.3 and above

### Note:

\*For Mainconsole multi stream and setting function, please upgrade to Mainconsole v5.0.0 and above first.

\* For Mainconsole H.265, please upgrade to Mainconsole v6.0 and above first.

\*\*For DP5.9 upgrade, please upgrade to Mainconsole v.6.11.0 and above first.

\*\*\*For NVRmini 2 and NVRsolo multi stream setting function, please upgrade to NVRmini 2/NVRsolo v2.0.0 and above first.

**If camera is added or upgraded firmware after v4.0, it will support multistream setting.**

### New Camera Supported:

<b>Vivotek</b>	IB9387-HT, CC9381-HV, FD9165-HT, FD9365-EHTV, FD9365-HTV, FD9365-HTVL, IB9365-EHT, IP9165-HP, IP9165-HT, IP9165-LPC
<b>Axis</b>	Generic Server

### New Features:

<b>Vivotek</b>	Generic(Edge Record)
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### Bug Fixed:

#### [MainConsole]

1. [Vivotek] Fixed some model cannot display Liveview Issue.
2. [Vivotek] Fixed Camera Search show Onvif/Onvif Issue.
3. [Vivotek] Fixed Dual Stream cannot perform H.265 Issue.
4. [Vivotek] Fixed MJPEG cannot display on High resolution Issue.

#### [NVRMini2/NVRsolo/Titan NVR/NUUO Crystal™]

1. [Panasonic] Fixed Generic cannot work Issue.
2. [Vivotek] Fixed Dual Stream cannot perform H.265 Issue.
3. [Axis] Fixed Parameters Issue(FPS).
4. [Vivotek] Fixed Camera Search show Onvif/Onvif Issue.



5. [Vivotek] Fixed MJPEG cannot display on High resolution Issue.
6. [Panasonic] Fixed Getparameter fail Issue.

Notice:

## Release Version v20.3 (2020/3/18)

### Modules:

**Device Pack**                      **v 20.3**

### Supported Systems:

Mainconsole	v 4.1.12 and above* / v.6.11.0 above**
NVRmini 2	v 2.1.0 and above***
NVRsolo	v 1.1.1 and above***
Titan NVR	v 1.6.2 and above
NUUO Crystal™	v 2.0.3 and above

### Note:

\*For Mainconsole multi stream and setting function, please upgrade to Mainconsole v5.0.0 and above first.

\* For Mainconsole H.265, please upgrade to Mainconsole v6.0 and above first.

\*\*For DP5.9 upgrade, please upgrade to Mainconsole v.6.11.0 and above first.

\*\*\*For NVRmini 2 and NVRsolo multi stream setting function, please upgrade to NVRmini 2/NVRsolo v2.0.0 and above first.

**If camera is added or upgraded firmware after v4.0, it will support multistream setting.**

### New Camera Supported:

<b>Axis</b>	<b>Q1941-E</b>
<b>Champ</b>	<b>DM3102V3</b>
<b>Arecont</b>	<b>AV20585PM</b>

### FW upgrade:

<b>Panasonic</b>	<b>WV-SC385</b>
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### Bug Fixed:

#### [MainConsole]

1. [Axis] Fixed Click smart guard button will cause MC Crash when using Axis Camera.

#### [NVRMini2/NVRsolo/Titan NVR/NUUO Crystal™]

1. [Vivotek] Fixed Vivotek some camera cannot connect when using basic auth
2. [Vivotek] Fixed Vivotek VCA Event Bug.
3. [Generic] Fixed H.265 flash Gray bug.
4. [Forenix] Fixed Audio Issue.
5. [Hikvision] Fixed get parameters fail issue.
6. [Axis] Fixed old model motion issue.

Notice:

1. [Arecont] Brightness and lightness frequency will only set by first channel(Camera Issue).
2. [Arecont] H264 with CBR and higher bitrate will disconnect frequently(Camera limit).

## Release Version v20.1 (2020/1/21)

### Modules:

**Device Pack**                      **v 20.1**

### Supported Systems:

Mainconsole	v 4.1.12 and above* / v.6.11.0 above**
NVRmini 2	v 2.1.0 and above***
NVRsolo	v 1.1.1 and above***
Titan NVR	v 1.6.2 and above
NUUO Crystal™	v 2.0.3 and above

### Note:

\*For Mainconsole multi stream and setting function, please upgrade to Mainconsole v5.0.0 and above first.

\* For Mainconsole H.265, please upgrade to Mainconsole v6.0 and above first.

\*\*For DP5.9 upgrade, please upgrade to Mainconsole v.6.11.0 and above first.

\*\*\*For NVRmini 2 and NVRsolo multi stream setting function, please upgrade to NVRmini 2/NVRsolo v2.0.0 and above first.

**If camera is added or upgraded firmware after v4.0, it will support multistream setting.**

### New Features:

**Axis**                                      Support Temperature Detect.

### FW upgrade:

**Axis**                                      Q2901-E

### Bug Fixed:

#### [MainConsole]

1. [Forenix] Fixed NPF-6065R-360 Enable Second Stream before connect.

#### [NVRMini2/NVRsolo/Titan NVR/NUUO Crystal™]

1. [Forenix] Fixed NPF-6065R-360 Enable Second Stream before connect.

### Notice:

1. [Axis] Edge Event will fail when protocol change, need to restart server or disable camera and enable again.

## Release Version v19.12 (2019/12/19)

### Modules:

<b>Device Pack</b>	<b>v 19.12</b>
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### Supported Systems:

Mainconsole	v 4.1.12 and above* / v.6.11.0 above**
NVRmini 2	v 2.1.0 and above***
NVRsolo	v 1.1.1 and above***
Titan NVR	v 1.6.2 and above
NUUO Crystal™	v 2.0.3 and above

### Note:

\*For Mainconsole multi stream and setting function, please upgrade to Mainconsole v5.0.0 and above first.

\* For Mainconsole H.265, please upgrade to Mainconsole v6.0 and above first.

\*\*For DP5.9 upgrade, please upgrade to Mainconsole v.6.11.0 and above first.

\*\*\*For NVRmini 2 and NVRsolo multi stream setting function, please upgrade to NVRmini 2/NVRsolo v2.0.0 and above first.

**If camera is added or upgraded firmware after v4.0, it will support multistream setting.**

### New Camera Supported:

<b>Adler</b>	ALD2060, AMB2060
<b>Axis</b>	P3707-PE
<b>Brickcom</b>	IPC-C34000
<b>Panasonic</b>	WV-S6111
<b>Vivotek</b>	IB9365-HT, MS9390-HV

### Bug Fixed:

#### [MainConsole]

1. [DLink] Fixed DCS-4705E DualStreamConnect Issue.

#### [NVRMini2/NVRsolo/Titan NVR/NUUO Crystal™]

1. [Hikivision] Fixed Video Server PTZ can only operate channel 1.
2. [Hikivision] Fixed DS-6716HWI Preset Issue.
3. [Axis] Fixed FA54 & P3707-PE 4 Channel motion will trigger at the same time.
4. [Axis] Fixed P3367 motion doesn't work.
5. [Hanwha] Fixed Zoom Issue.
6. [Samsung] Fixed Zoom Issue.
7. [Crystal] Playback H.265 Thumbnail view fixed.

Notice:

1. [Vivotek] MS9390-HV when liveview format is MJPEG and protocol is TCP/UDP and Resolution is higher than 2048x2048, liveview cannot perform normally (FFmpeg limitation).
2. [Vivotek] MS9390-HV when liveview format is H265 and Resolution is 4512x1728, liveview will flash gray (NUUO Server limitation).

## Release Version v19.10 (2019/10/21)

### Modules:

<b>Device Pack</b>	<b>v 19.10</b>
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### Supported Systems:

Mainconsole	v 4.1.12 and above* / v.6.11.0 above**
NVRmini 2	v 2.1.0 and above***
NVRsolo	v 1.1.1 and above***
Titan NVR	v 1.6.2 and above
NUUO Crystal™	v 2.0.3 and above

### Note:

\*For Mainconsole multi stream and setting function, please upgrade to Mainconsole v5.0.0 and above first.

\* For Mainconsole H.265, please upgrade to Mainconsole v6.0 and above first.

\*\*For DP5.9 upgrade, please upgrade to Mainconsole v.6.11.0 and above first.

\*\*\*For NVRmini 2 and NVRsolo multi stream setting function, please upgrade to NVRmini 2/NVRsolo v2.0.0 and above first.

**If camera is added or upgraded firmware after v4.0, it will support multistream setting.**

### New Camera Supported:

<b>Arecont</b>	AV20375RS
<b>Axis</b>	FA54, M3057
<b>Forenix</b>	NPV-6065CDS-M
<b>Hanwha</b>	Generic

### Bug Fixed:

#### [MainConsole]

1. [Brickcom] Fixed can't connect.

#### [NVRMini2/NVRsolo/Titan NVR/NUUO Crystal™]

1. [Hunt] Fixed can't get parameters.

### Notice:

1. [Arecont] PTZ cgi will cause camera reboot, setpreset cgi need to send two cgi but after the first one send over, camera can't get the second one so setpreset can't use.
2. [Forenix] NPV-6065CDS-M & IPV-6065CDS-M cannot use AAC(audio codec) on NAS.

## Release Version v19.9 (2019/8/29)

### Modules:

**Device Pack**                      **v 19.9**

### Supported Systems:

Mainconsole	v 4.1.12 and above* / v.6.11.0 above**
NVRmini 2	v 2.1.0 and above***
NVRsolo	v 1.1.1 and above***
Titan NVR	v 1.6.2 and above
NUUO Crystal™	v 2.0.3 and above

### Note:

\*For Mainconsole multi stream and setting function, please upgrade to Mainconsole v5.0.0 and above first.

\* For Mainconsole H.265, please upgrade to Mainconsole v6.0 and above first.

\*\*For DP5.9 upgrade, please upgrade to Mainconsole v.6.11.0 and above first.

\*\*\*For NVRmini 2 and NVRsolo multi stream setting function, please upgrade to NVRmini 2/NVRsolo v2.0.0 and above first.

**If camera is added or upgraded firmware after v4.0, it will support multistream setting.**

### New Camera Supported:

**Forenix**                              NVS-AH01X, NPF-6065R-360

### New Features:

**Vivotek**                              Support VCA Standard(Loitering).

### Bug Fixed:

#### [MainConsole]

1. [Onvif] Fixed can't set format to h265.
2. [D-Link] Fixed DCS-4625 can't set quality and bitrate.

#### [NVRMini2/NVRsolo/Titan NVR/NUUO Crystal™]

1. [Hunt] Fixed model setting over rtsp.

Notice:



## Release Version v19.7 (2019/7/15)

### Modules:

**Device Pack**                      **v 19.7**

### Supported Systems:

Mainconsole	v 4.1.12 and above* / v.6.11.0 above**
NVRmini 2	v 2.1.0 and above***
NVRsolo	v 1.1.1 and above***
Titan NVR	v 1.6.2 and above
NUUO Crystal™	v 2.0.3 and above

### Note:

\*For Mainconsole multi stream and setting function, please upgrade to Mainconsole v5.0.0 and above first.

\* For Mainconsole H.265, please upgrade to Mainconsole v6.0 and above first.

\*\*For DP5.9 upgrade, please upgrade to Mainconsole v.6.11.0 and above first.

\*\*\*For NVRmini 2 and NVRsolo multi stream setting function, please upgrade to NVRmini 2/NVRsolo v2.0.0 and above first.

**If camera is added or upgraded firmware after v4.0, it will support multistream setting.**

### New Camera Supported:

<b>Panasonic</b>	WJ-GXE100
<b>Uniview</b>	IPC268ER9-DZ
<b>[MainConsole] Hanwha</b>	XNP-6320H

### Bug Fixed:

#### [MainConsole]

1. [Alpha] Fixed D-link Audio Error.
2. [UPnP] Fixed Some model can't be search by UPnP.
3. [Samsung] Fixed some old camera can't add/remove presets.
4. [Onvif] Fixed Onvif code which cause Mainconsole crash.
5. [ACTI] Fixed ACTI camera can't connect.

#### [NVRMini2/NVRsolo/Titan NVR/NUUO Crystal™]

1. [NVRServer] Fixed Datacallback function which cause abnormal assert.

### Notice:

1. **UNIVIEW**
  - a. All Camera

- i. (Mainconsole)Uniview camera search can't search.

## 2. **Panasonic**

- a. WJ-GXE100 (Camera Performance issue)
  - i. Brightness can't set.
- b. WJ-GXE500
  - i. Brightness can't set.
  - ii. RS485 can't use.
  - iii. Camera has connection limit.
  - iv. Audio cgi feedback incomplete.
  - v. Audio only channel 1 can used and has some noise.

## Release Version v19.6 (2019/6/3)

### Modules:

**Device Pack**                      **v 19.6**

### Supported Systems:

Mainconsole	v 4.1.12 and above* / v.6.11.0 above**
NVRmini 2	v 2.1.0 and above***
NVRsolo	v 1.1.1 and above***
Titan NVR	v 1.6.2 and above
NUUO Crystal™	v 2.0.3 and above

### Note:

\*For Mainconsole multi stream and setting function, please upgrade to Mainconsole v5.0.0 and above first.

\* For Mainconsole H.265, please upgrade to Mainconsole v6.0 and above first.

\*\*For DP5.9 upgrade, please upgrade to Mainconsole v.6.11.0 and above first.

\*\*\*For NVRmini 2 and NVRsolo multi stream setting function, please upgrade to NVRmini 2/NVRsolo v2.0.0 and above first.

**If camera is added or upgraded firmware after v4.0, it will support multistream setting.**

### New Camera Supported:

<b>Vivotek</b>	CC8371-HV
<b>Fine</b>	TCP-IRH4080-70
<b>Uniview</b>	IPC6852SR-X38UG

### FW upgrade:

<b>Axis</b>	Generic
<b>Hikvision</b>	Generic

### New Features:

<b>UDP</b>	Support VCAedge.
<b>Vivotek</b>	Support VCA Standard(Line Crossing、Object Inside).

### Bug Fixed:

#### [MainConsole]

1. [Onvif] Fixed some camera cause crash issue.

#### [NVRMini2/NVRsolo/Titan NVR/NUUO Crystal™]

1. [NVRSolo] Fixed Solo Memory Leak.

### Notice:

1. **UNIVIEW**

- a. IPC6852SR-X38UG (Camera Firmware issue)
  - i. Resolution, FPS list cannot be synchronized with the camera web.

## 2. **FINE**

- a. TCP-IRH4080-70 (Camera Performance issue)
  - i. When use MJPEG Bitrate might not reach select value also happened on third party stream player.

## Release Version v19.4 (2019/4/15)

### Modules:

<b>Device Pack</b>	<b>v 19.4</b>
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### Supported Systems:

Mainconsole	v 4.1.12 and above* / v.6.11.0 above**
NVRmini 2	v 2.1.0 and above***
NVRsolo	v 1.1.1 and above***
Titan NVR	v 1.6.2 and above
NUUO Crystal™	v 2.0.3 and above

### Note:

\*For Mainconsole multi stream and setting function, please upgrade to Mainconsole v5.0.0 and above first.

\* For Mainconsole H.265, please upgrade to Mainconsole v6.0 and above first.

\*\*For DP5.9 upgrade, please upgrade to Mainconsole v.6.11.0 and above first.

\*\*\*For NVRmini 2 and NVRsolo multi stream setting function, please upgrade to NVRmini 2/NVRsolo v2.0.0 and above first.

**If camera is added or upgraded firmware after v4.0, it will support multistream setting.**

### New Camera Supported:

<b>Vivotek</b>	TB9331-E
<b>Champ</b>	DM3102V2

### FW upgrade:

<b>Dahua</b>	Generic
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### Bug Fixed:

#### [NVRMini2/NVRsolo/Titan NVR/NUUO Crystal™]

1. [Panasonic] Fixed BB-SC382 can't connect.
2. [Sunell] Fixed H.265 exports original AVI with empty folder.

## Release Version v19.3 (2019/3/1)

### Modules:

**Device Pack**                      **v 19.3**

### Supported Systems:

Mainconsole	v 4.1.12 and above* / v.6.11.0 above**
NVRmini 2	v 2.1.0 and above***
NVRsolo	v 1.1.1 and above***
Titan NVR	v 1.6.2 and above
NUUO Crystal™	v 2.0.3 and above

### Note:

\*For Mainconsole multi stream and setting function, please upgrade to Mainconsole v5.0.0 and above first.

\* For Mainconsole H.265, please upgrade to Mainconsole v6.0 and above first.

\*\*For DP5.9 upgrade, please upgrade to Mainconsole v.6.11.0 and above first.

\*\*\*For NVRmini 2 and NVRsolo multi stream setting function, please upgrade to NVRmini 2/NVRsolo v2.0.0 and above first.

**If camera is added or upgraded firmware after v4.0, it will support multistream setting.**

### New Camera Supported:

<b>ARKS</b>	AIB-262S, AIB-462S, CC136, CC236, ID212F, ID-212S, ID-228F, ID-236F, ID-412, ID-510, OB-212, OB-212S, OB-450-Z10, OB-510, OB-510-Z3, OPD-4K108S, VD-212S, VD-412, VD-412-Z4, VD-412-Z4i, VD-510, VD-510-Z3,
<b>Kedacom</b>	IPC2251-HNB-SIR80-Z6048, IPC2233-FN-PIR40, IPC2233-FN-SIR40, IPC2211-FN-PIR, IPC2211-FN-SIR, IPC2453-FNB-PIR40, IPC2253-HNB-PIR30
<b>FALCONTECH</b>	KP-2B282, KP-2B282S, KP-2KB81S, KP-2KD282B, KP-2KD282BS, KP-2KD282S, KP-2KDF28B, KP-2KDF36B, KP-4B282, KP-4B550-10X, KP-4KB81, KP-4KD108, KP-4KD282, KP-4KD282-4.2X, KP-4KD282B, KP-4KD282P-4.2X, KP-5B315, KP-5B315-3.5X, KP-5KD315, KP-5KD315-3.5X, KP-5KD315B, KP-CUB136, KP-CUB236
<b>Forenix</b>	IPB-2265U-M, IPV-2365UF-E, IPB-2265UF-E

### Bug Fixed:

#### [MainConsole]

1. [Sunell] Fixed motion detect cannot be triggered issue.

2. [Vivotek] Fixed fail to connect IB8379H.

**[NVRMini2/NVRsolo/Titan NVR/NUUO Crystal™]**

1. [Fine] Fixed fail to connect multi-streams.
2. [D-Link] Fixed DNR-322L Live view & Playback Audio Issue .
3. [Sunell] Fixed IVS Single Virtual Fence event triggered multiple times.

## Release Version v19.1 (2018/1/15)

### Modules:

**Device Pack**                      **v 19.1**

### Supported Systems:

Mainconsole	v 4.1.12 and above* / v.6.11.0 above**
NVRmini 2	v 2.1.0 and above***
NVRsolo	v 1.1.1 and above***
Titan NVR	v 1.6.2 and above
NUUO Crystal™	v 2.0.3 and above

### Note:

\*For Mainconsole multi stream and setting function, please upgrade to Mainconsole v5.0.0 and above first.

\* For Mainconsole H.265, please upgrade to Mainconsole v6.0 and above first.

\*\*For DP5.9 upgrade, please upgrade to Mainconsole v.6.11.0 and above first.

\*\*\*For NVRmini 2 and NVRsolo multi stream setting function, please upgrade to NVRmini 2/NVRsolo v2.0.0 and above first.

**If camera is added or upgraded firmware after v4.0, it will support multistream setting.**

### New Camera Supported:

<b>Vivotek</b>	IZ9361-EH, IB9365-HT
<b>Forenix</b>	NVS-AH08
<b>Fine</b>	CDV-8KP108

### Bug Fixed:

#### [MainConsole]

1. [NIHON] Fixed NIHON camera cannot connect Issue.

#### [NVRMini2/NVRsolo/Titan NVR/NUUO Crystal™]

1. [UDP] Fixed Motion Detect cannot be triggered Issue.
2. [D-Link] Fixed DNR-322L Live view & Playback Audio Issue .
3. [Sunell] Fixed camera cannot connect for H.265.

### Notice:

1. **Forenix**
  - a. NVS-AH08
    - i. Camera is unable to achieve maximum fps. (Camera performance limitation).
    - ii. Camera Streaming 2 will get the wrong resolution list. (should not have 720x480).



- iii. Camera may disconnect after a moment.
- 2. **Fine**
  - a. CDV-8KP108
    - i. Camera is unable to achieve maximum fps. (Camera performance limitation).

## Release Version v18.12 (2018/12/01)

### Modules:

<b>Device Pack</b>	<b>v 18.12</b>
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### Supported Systems:

Mainconsole	v 4.1.12 and above* / v.6.11.0 above**
NVRmini 2	v 2.1.0 and above***
NVRsolo	v 1.1.1 and above***
Titan NVR	v 1.6.2 and above
NUUO Crystal™	v 2.0.3 and above

### Note:

\*For Mainconsole multi stream and setting function, please upgrade to Mainconsole v5.0.0 and above first.

\* For Mainconsole H.265, please upgrade to Mainconsole v6.0 and above first.

\*\*For DP5.9 upgrade, please upgrade to Mainconsole v.6.11.0 and above first.

\*\*\*For NVRmini 2 and NVRsolo multi stream setting function, please upgrade to NVRmini 2/NVRsolo v2.0.0 and above first.

**If camera is added or upgraded firmware after v4.0, it will support multistream setting.**

### New Camera Supported:

<b>Axis</b>	M3105-LVE
<b>Hikvision</b>	DS-2PT3326IZ-DE3
<b>JACQUES</b>	TCH-2MX
<b>Mileight</b>	MS-C2872-RFIPB, MS-C2872-RFPB, MS-C2872-FIPB, MS-C2872-FPB, MS-C2972-RFIPB, MS-C2972-RFPB, MS-C2972-FIPB, MS-C2972-FPB
<b>Santec</b>	SNC-841DBIAe, SNC-841DDIAe, SNC-441RBIAe, SNC-441RDIAe, SNC-441RLNN, SNC-441FEIF, SNC-441FBIFe, SNC-441FDIF, SNC-441FINF
<b>Uniview</b>	IPC814SR-DVSPF16

### FW upgrade:

<b>Forenix</b>	NPB-1080F28X
<b>Axis</b>	M2025-LE
<b>Uniview</b>	IPC6222ER-X20-B

### Bug Fixed:

#### [MainConsole]

1. [Canon] Fixed VB-H43 talk disable issue.
2. [Hikvision] Fixed camera keep increasing the TCP connection.

3. [Uniview] Fixed third stream UI Rule for frame rate list.
4. [Zavio] Fixed third stream watermark issue under H.265 for CD3210, CD3211, CD5220, CD6330, CB3210, CB3211, CB5220, CB6330.

## [NVRMini2/NVRsolo/Titan NVR/NUUO Crystal™]

1. [Canon] Fixed VB-H43 talk disable issue.
2. [Samsung] Fixed QNO-7080R motion detection issue.
3. [Sunell] Fixed watermark issue under H.265 .
4. [Uniview] Fixed third stream UI Rule for frame rate list.
5. [Uniview] Fixed IPC2324EBR-DPZ28 Audio issue.
6. [Zavio] Fixed third stream watermark under H.265 for CD3210, CD3211, CD5220, CD6330, CB3210, CB3211, CB5220, CB6330.

### Notice:

1. **Forenix**
  - a. NPB-1080F28
    - i. Camera with MJPEG is unable to achieve maximum fps. (Camera performance limitation)
2. **Hikvision**
  - a. DS-2PT3326IZ-DE3
    - i. Optical PTZ is disabled on Crystal 3 sometimes , but reboot camera is enabled(NUUO server limitation)
3. **Milesight**
  - a. MS-C2872-RFIPB, MS-C2872-RFPB, MS-C2872-FIPB, MS-C2872-FPB, MS-C2972-RFIPB, MS-C2972-RFPB, MS-C2972-FIPB, MS-C2972-FPB
    - i. If bitrate is too low, the Camera is unable to achieve maximum FPS.(Camera performance limitation)
    - ii. If I-frame Interval <10, may appear watermark.(NUUO server limitation)

## Release Version v18.11 (2018/11/01)

### Modules:

**Device Pack**                      **v 18.11**

### Supported Systems:

Mainconsole	v 4.1.12 and above* / v.6.11.0 above**
NVRmini 2	v 2.1.0 and above***
NVRsolo	v 1.1.1 and above***
Titan NVR	v 1.6.2 and above
NUUO Crystal™	v 2.0.3 and above

### Note:

\*For Mainconsole multi stream and setting function, please upgrade to Mainconsole v5.0.0 and above first.

\* For Mainconsole H.265, please upgrade to Mainconsole v6.0 and above first.

\*\*For DP5.9 upgrade, please upgrade to Mainconsole v.6.11.0 and above first.

\*\*\*For NVRmini 2 and NVRsolo multi stream setting function, please upgrade to NVRmini 2/NVRsolo v2.0.0 and above first.

**If camera is added or upgraded firmware after v4.0, it will support multistream setting.**

### New Camera Supported:

<b>Milesight</b>	MS-C2962-RFIPB, MS-C2983-PB, MS-C2973-PB, MS-C2975-PB
<b>UNIVIEW</b>	IPC2122LR3-PF40-C, IPC2124SR3-DPF36, IPC314SR-DVPF36, IPC2324EBR-DPZ28
<b>Vivotek</b>	FD9181-HT, FD9381-HTV, IB9381-EHT, IB9381-HT, IP9181-H
<b>Zavio</b>	CD3210, CD3211, CD5220, CD6330, CB3210, CB3211, CB5220, CB6330

### FW upgrade:

<b>Forenix</b>	NPD-1080MFX, NPB-1080F28X
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### Bug Fixed:

#### [MainConsole]

1. [Vivotek] SIP Talk over SIP protocol disconnect will Unauthorized & 401 response 10 times.
2. [Qmik] Display gray flashing and delay.

#### [NVRMini2/NVRsolo/Titan NVR/NUUO Crystal™]

1. [ONVIF] Onvif media audio codec can't analyze G711 u-law/a-law format.
2. [Qmik] Display gray flashing and delay.

Notice:

3. **UNIVIEW**

- a. IPC2122LR3-PF40-C (Camera Firmware issue)
  - i. Resolution list cannot be synchronized with the camera web.
    - (1) If resolution less than or equal to 720x576 in sub-stream can't change fps over 5 fps by ONVIF protocol.
- b. IPC2124SR3-DPF36 (Camera Firmware issue)
  - i. Resolution list cannot be synchronized with the camera web.
    - (1) If resolution less than or equal to 720x576 in sub-stream can't change fps over 5 fps by ONVIF protocol.
    - (2) If resolution less than or equal to 1280x720 in sub-stream can't change resolution to 1920x1080 by ONVIF protocol.
- c. IPC314SR-DVPF36 (Camera Firmware issue)
  - i. Resolution list cannot be synchronized with the camera web.
    - (1) If resolution less than or equal to 720x576 in sub-stream can't change fps over 5 fps by ONVIF protocol.
    - (2) If resolution less than or equal to 1280x720 in sub-stream can't change resolution to 1920x1080 by ONVIF protocol.
- d. IPC2324EBR-DPZ28 (Camera Firmware issue)
  - i. Resolution list cannot be synchronized with the camera web.
    - (1) If resolution less than or equal to 720x576 in sub-stream can't change fps over 5 fps by ONVIF protocol.

#### 4. Forenix

- a. NPD-1080MFX(Camera performance limitation)  
Camera with MJPEG is usable to achieve maximum FPS.

#### 5. Zavio

- a. CD3210, CD3211, CD5220, CD6330, CB3210, CB3211, CB5220, CB6330  
Performance issues when high video quality. (NUUO Server performance limit)
  - i. Video will delay about 3~5 seconds, and it lost 10~20 FPS when any image changed in video image at VBR.
  - ii. Video delay getting more and more serious as time goes by, about 15~30 seconds and display only 18 FPS, it unable to achieve maximum FPS at CBR.
  - iii. Video lost about 9 FPS when any image changed in video image at CBR.

## Release Version v18.9 (2018/09/01)

### Modules:

**Device Pack**                      **v 18.9**

### Supported Systems:

Mainconsole	v 4.1.12 and above* / v.6.11.0 above**
NVRmini 2	v 2.1.0 and above***
NVRsolo	v 1.1.1 and above***
Titan NVR	v 1.6.2 and above
NUUO Crystal™	v 2.0.3 and above

### Note:

\*For Mainconsole multi stream and setting function, please upgrade to Mainconsole v5.0.0 and above first.

\* For Mainconsole H.265, please upgrade to Mainconsole v6.0 and above first.

\*\*For DP5.9 upgrade, please upgrade to Mainconsole v.6.11.0 and above first.

\*\*\*For NVRmini 2 and NVRsolo multi stream setting function, please upgrade to NVRmini 2/NVRsolo v2.0.0 and above first.

**If camera is added or upgraded firmware after v4.0, it will support multistream setting.**

### New Camera Supported:

<b>Axis</b>	M2025-LE
<b>CHAMP</b>	DM5115V2
<b>Fine</b>	TCP-KB436
<b>Forenix</b>	NPB-1080F28X, NPD-1080MFX
<b>Santec</b>	SNC-441RBIAe
<b>Vivotek</b>	FD9167-H, FD9167-HT, FD9367-EHTV, FD9367-HTV, FD9367-HV, FD9381-EHTV, IB9367-EHT, IB9367-H, IB9367-HT

### Feature Added:

#### [MainConsole]

1. [ONVIF] Upgrade gSOAP to 2.8.65.

#### [NVRMini2/NVRsolo/Titan NVR/NUUO Crystal™]

1. [ONVIF] Upgrade gSOAP to 2.8.65.
2. [Sunell] Added Edge Event function.

### Bug Fixed:

#### [MainConsole]

1. [ONVIF] Fix some situation could cause camera cannot connect issue.
2. [ONVIF] Fix camera had broken image and crashed.

3. [ONVIF] Improve Onvif Authentication function.
4. [ONVIF] Improve Onvif use experience at focus function.

## **[NVRMini2/NVRsolo/Titan NVR/NUUO Crystal™]**

1. [ONVIF] Improve Onvif Authentication function.
2. [ONVIF] Improve Onvif use experience at focus function.

### Notice:

#### 1. **Forenix**

##### a. NPD-1080MFX

- i. If over ten connect sessions, camera behavior will be abnormal. (Camera Firmware issue)
- ii. Audio-in has no sound. (Camera Firmware issue)
- iii. DO works abnormally. (Camera Hardware issue)
- iv. Camera with MJPEG is unable to achieve maximum fps. (Camera performance limitation)
- v. Resolution list is not synchronized with the camera web. It will cause camera will be rebooted after 2nd stream setting the resolution to 1920x1080 and 1280x720. (Camera Firmware issue)

#### 2. **Santec**

##### a. SNC-441RBIAe

- i. Camera with MJPEG is unable to achieve maximum fps. (Camera performance limitation)

## Release Version v18.8 (2018/08/01)

### Modules:

<b>Device Pack</b>	<b>v 18.8</b>
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### Supported Systems:

Mainconsole	v 4.1.12 and above* / v.6.11.0 above**
NVRmini 2	v 2.1.0 and above***
NVRsolo	v 1.1.1 and above***
Titan NVR	v 1.6.2 and above
NUUO Crystal™	v 2.0.3 and above

### Note:

\*For Mainconsole multi stream and setting function, please upgrade to Mainconsole v5.0.0 and above first.

\* For Mainconsole H.265, please upgrade to Mainconsole v6.0 and above first.

\*\*For DP5.9 upgrade, please upgrade to Mainconsole v.6.11.0 and above first.

\*\*\*For NVRmini 2 and NVRsolo multi stream setting function, please upgrade to NVRmini 2/NVRsolo v2.0.0 and above first.

**If camera is added or upgraded firmware after v4.0, it will support multistream setting.**

### New Camera Supported:

<b>Axis</b>	P1365 Mk II, P3225-LV Mk II
<b>Forenix</b>	NPD-2065CD-M, NPD-4065CD-M
<b>Vivotek</b>	MA8391-ETV

### Feature Added:

#### [MainConsole/NVRMini2/NVRsolo/Titan NVR/NUUO Crystal™]

1. [Axis] Add Generic to support fisheye function.

### Bug Fixed:

#### [MainConsole]

1. [All brand] Fix MainConsole crashed after stopped the smart guard.
2. [Santec] Fix SNC-441RDAe Audio-in has noise.
3. [Santec] Fix SNC-441RDAe Audio-out (talk) cannot work.
4. [ONVIF] Fix continuous focus cannot stop.

#### [NVRMini2/NVRsolo/Titan NVR/NUUO Crystal™]

1. [Santec] Fix SNC-441RDAe motion cannot work.
2. [Santec] Fix SNC-441RDAe DI alarm is abnormal.



Notice:

1. **Forenix**

a. NPD-2065CD-M

- i. There is no Audio-out function on the camera web. (Camera Firmware issue)

b. NPD-4065CD-M

- i. DO works abnormally. (Camera Firmware issue)

## Release Version v18.7 (2018/07/02)

### Modules:

**Device Pack**                      **v 18.7**

### Supported Systems:

Mainconsole	v 4.1.12 and above* / v.6.11.0 above**
NVRmini 2	v 2.1.0 and above***
NVRsolo	v 1.1.1 and above***
Titan NVR	v 1.6.2 and above
NUUO Crystal™	v 2.0.3 and above

### Note:

\*For Mainconsole multi stream and setting function, please upgrade to Mainconsole v5.0.0 and above first.

\* For Mainconsole H.265, please upgrade to Mainconsole v6.0 and above first.

\*\*For DP5.9 upgrade, please upgrade to Mainconsole v.6.11.0 and above first.

\*\*\*For NVRmini 2 and NVRsolo multi stream setting function, please upgrade to NVRmini 2/NVRsolo v2.0.0 and above first.

**If camera is added or upgraded firmware after v4.0, it will support multistream setting.**

### New Camera Supported:

<b>Axis</b>	P1367
<b>D-Link</b>	DSC-4705E
<b>D-Link China</b>	DCS-V90R-10F/A0
<b>Fine</b>	CDV-3VM800H, TCP-HDVB800H, TCP-HP1080H
<b>Forenix</b>	NSPD-2065-10X
<b>QAlumia</b>	QSS2324EBR-DPZ28, QSS3234SR3-DVZ28
<b>SANTEC</b>	SNC-441RDIAe
<b>UNIVIEW</b>	IPC6222ER-X20-B

### FW upgrade:

<b>Axis</b>	M5525-E
<b>D-Link</b>	DCS-4802E

### Feature Added:

#### [NUUO Crystal™]

1. [Axis] Add Q6000, Q6000-E to support fisheye dewarp function.

### Bug Fixed:

#### [MainConsole]

1. Fix MainConsole crash when frame doesn't have format type.

2. [Fine] Fix WB-HB08 resolution list cannot get properly.

## **[NVRMini2/NVRsolo/Titan NVR/NUUO Crystal™]**

1. [Brickcom] Fix OSD200NP cannot zoom while pan and tilt.
2. [Fine] Fix WB-HB08 resolution list cannot get properly.
3. [Sunell] Fix H.265 live freeze.

### Notice:

#### **1. D-Link**

##### **1. DSC-4705E**

- i. Stream 2 cannot change resolution. (Camera Firmware issue)
- ii. Camera is unable to achieve maximum FPS. (Camera performance limitation)

#### **1. D-Link China**

##### **1. DCS-V90R-10F/A0**

- i. Camera search works abnormal. (Camera Firmware issue)
- ii. Auto Detect works abnormal. (Camera Firmware issue)
- iii. Focus function works abnormal. (Camera Firmware issue)
- iv. Preset name cannot be set. (Camera Firmware issue)
- v. Camera parameter setting won't sync with the camera web. (Camera Firmware issue)

#### **2. Forenix**

##### **1. NSPD-2065-10X**

- i. Camera search works abnormal. (Camera Firmware issue)
- ii. Auto Detect works abnormal. (Camera Firmware issue)
- iii. Image will be broken when camera is H.265 with higher resolution. (NUUO Server limitation)

#### **3. QAlumia**

##### **1. QSS2324EBR-DPZ28**

- i. The frame rate and resolution list won't sync with the camera web. (Camera Firmware issue)
- ii. Stream 3 cannot be displayed with 352x288.
- iii. DO behavior is abnormal.

##### **2. QSS3234SR3-DVZ28**

- i. The frame rate and resolution list won't sync with the camera web. (Camera Firmware issue)
- ii. DO behavior is abnormal.
- iii. Image will be broken when camera is H.265 with higher resolution. (NUUO Server limitation)

## 4. UNIVIEW

### 1. IPC6222ER-X20-B

- i. Resolution list cannot be synchronized with the camera web. (Camera Firmware issue)

## Release Version v18.6 (2018/06/01)

### Modules:

<b>Device Pack</b>	<b>v 18.6</b>
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### Supported Systems:

Mainconsole	v 4.1.12 and above* / v.6.11.0 above**
NVRmini 2	v 2.1.0 and above***
NVRsolo	v 1.1.1 and above***
Titan NVR	v 1.6.2 and above
NUUO Crystal™	v 2.0.3 and above

### Note:

\*For Mainconsole multi stream and setting function, please upgrade to Mainconsole v5.0.0 and above first.

\* For Mainconsole H.265, please upgrade to Mainconsole v6.0 and above first.

\*\*For DP5.9 upgrade, please upgrade to Mainconsole v.6.11.0 and above first.

\*\*\*For NVRmini 2 and NVRsolo multi stream setting function, please upgrade to NVRmini 2/NVRsolo v2.0.0 and above first.

**If camera is added or upgraded firmware after v4.0, it will support multistream setting.**

### New Camera Supported:

<b>Axis</b>	P1435-LE, Q6045-E-MkII, Q6055
<b>CHAMP</b>	BL3104
<b>Dahua</b>	DH-SD6AL240-HNI, SD6AL230F-HNI
<b>Fine</b>	CDB-2KM552S, CDB-KFD228, CDB-KFD236, CDV-2KM502S, TCP-KM265S, TCP-KZ262S
<b>KEDACOM</b>	IPC2251-HNB-SIR80-Z6048(VER.A)
<b>QAlumia</b>	QSS314SR-DVPF28, QSS3614SR3-DPF28M

### Feature Added:

#### [NUUO Crystal™]

1. [Axis] Support Edge Record.

### Bug Fixed:

#### [MainConsole]

1. [CHAMP] Fix DM3104 search works abnormal.
2. [Dahua] Fix image parameters set abnormal.
3. [Hikvision] Fix multi-channel camera takes more than 10 minutes to turn on Mainconsole.
4. [Hikvision] Fix multi-channel camera cannot set frame rate.

5. [Mobotix] Fix camera disconnects frequently that causes Mainconsole crash.

## [NVRMini2/NVRsolo/Titan NVR/NUUO Crystal™]

1. [CHAMP] Fix DM3104 search works abnormal.
2. [Hikvision] Fix camera cannot connect.

### Notice:

#### 1. **Axis**

- a. Q6055
  - i. TCP and UDP connection cannot verify via link.
  - ii. Images becomes black and white when camera set to MJPEG and higher bitrate. (Camera performance limitation)

#### 2. **Dahua**

- a. DH-SD6AL240-HNI
  - i. Resolution cannot be changed. (Camera Firmware issue)

#### 3. **KEDACOM**

- a. IPC2251-HNB-SIR80-Z6048(VER.A)
  - i. Frame rate list of secondary stream with 1920x1080 cannot synchronized with the camera seb. (Camera Firmware issue)
  - ii. Camera cannot support H.265 and Audio-Out. (Camera Firmware issue)

#### 4. **QAlumia**

- a. QSS314SR-DVPPF28
  - i. Image will be broken when camera is H.265 and higher resolution. (NUUO server limitation)

## Release Version v18.5 (2018/04/26)

### Modules:

**Device Pack**                      **v 18.5**

### Supported Systems:

Mainconsole	v 4.1.12 and above* / v.6.11.0 above**
NVRmini 2	v 2.1.0 and above***
NVRsolo	v 1.1.1 and above***
Titan NVR	v 1.6.2 and above
NUUO Crystal™	v 2.0.3 and above

### Note:

\*For Mainconsole multi stream and setting function, please upgrade to Mainconsole v5.0.0 and above first.

\* For Mainconsole H.265, please upgrade to Mainconsole v6.0 and above first.

\*\*For DP5.9 upgrade, please upgrade to Mainconsole v.6.11.0 and above first.

\*\*\*For NVRmini 2 and NVRsolo multi stream setting function, please upgrade to NVRmini 2/NVRsolo v2.0.0 and above first.

**If camera is added or upgraded firmware after v4.0, it will support multistream setting.**

### New Camera Supported:

<b>Axis</b>	M3047-P
<b>CHAMP</b>	DM3104
<b>D-Link</b>	DCS-4701E [HW: B]
<b>Fine</b>	WB-HB08
<b>Panasonic</b>	Generic, WV-S6130, WV-S6131
<b>QAlumia</b>	QSS2224SR5-DPF40-B

### FW upgrade:

<b>Axis</b>	P7214
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### Bug Fixed:

#### [MainConsole]

1. [Fine] CDB-2KM552 is now correctly labeled. (previously labeled as CDV-2KM552)
2. [VisionHitech] Fix Sub Stream cannot connect.

#### [NVRMini2/NVRsolo/Titan NVR/NUUO Crystal™]

1. [Fine] CDB-2KM552 is now correctly labeled. (previously labeled as CDV-2KM552)
2. [Hikvision] Fix Sub Stream cannot connect via UDP.
3. [VisionHitech] Fix Sub Stream cannot connect.

Notice:

## 1. Axis

- a. M3047-P
  - i. When capture mode is Fisheye and camera set to 1728x1728, 1440x1440, 1200x1200, camera cannot connect. (Camera Firmware issue)
  - ii. Camera is unable to achieve more than 15 FPS. (Camera performance limitation)

## 2. CHAMP

- a. DM3104
  - i. Camera search works abnormal. (Camera Firmware issue)

## 3. Fine

- a. WB-HB08
  - i. Camera cannot set more than 15 FPS. (Camera Firmware issue)

## 4. Panasonic

- a. WV-S6130
  - i. Camera search works abnormal. (Camera Firmware issue)
- b. WV-S6131
  - i. Camera search works abnormal. (Camera Firmware issue)



## Release Version v18.4 (2018/04/01)

### Modules:

**Device Pack**                      **v 18.4**

### Supported Systems:

Mainconsole	v 4.1.12 and above* / v.6.11.0 above**
NVRmini 2	v 2.1.0 and above***
NVRsolo	v 1.1.1 and above***
Titan NVR	v 1.6.2 and above
NUUO Crystal™	v 2.0.3 and above

### Note:

\*For Mainconsole multi stream and setting function, please upgrade to Mainconsole v5.0.0 and above first.

\* For Mainconsole H.265, please upgrade to Mainconsole v6.0 and above first.

\*\*For DP5.9 upgrade, please upgrade to Mainconsole v.6.11.0 and above first.

\*\*\*For NVRmini 2 and NVRsolo multi stream setting function, please upgrade to NVRmini 2/NVRsolo v2.0.0 and above first.

**If camera is added or upgraded firmware after v4.0, it will support multistream setting.**

### New Camera Supported:

<b>Axis</b>	M5525-E, Q6000-E-MkII
<b>DivioTec</b>	NBR123P, NBR125C
<b>Fine</b>	CDV-4KM502Z42, CDV-4KM502Z42X
<b>Panasonic</b>	WV-S2110RJ, WV-S2111L
<b>QAlumia</b>	QSS3634ER3-DPZ28

### Feature Added:

#### [MainConsole]

1. [Panasonic] Support Contrast.

### Bug Fixed:

#### [MainConsole]

1. [Axis] Fix multi-channel camera with VMD4 were trigger at the same time.
2. [ONVIF] Fix camera search works abnormal.

#### [NVRMini2/NVRsolo/Titan NVR/NUUO Crystal™]

1. [Axis] Fix multi-channel camera with VMD4 were trigger at the same time.
2. [Dahua] Fix Generic model preset function works abnormal.
3. [Sunell] Fix NVR solo crash when connect Sunell camera.

Notice:

## 1. DivioTec

### a. NBR125C

- i. When HTTP Port is not 80, camera cannot connect. (ONVIF server limitation)
- ii. Camera Search works abnormal. (Camera Firmware issue)

## 2. Panasonic

### a. WV-S2110RJ

- i. Auto Detect works abnormal. (Camera Firmware issue)
- ii. Camera Search works abnormal. (Camera Firmware issue)

### b. WV-S2111L

- i. Camera Search works abnormal on NVR system and Crystal. (NUUO server limitation)

## 3. QAlumia

### a. QSS3634ER3-DPZ28

- i. The frame rate list cannot sync with the camera web. (Camera Firmware issue)
- ii. The resolution list of 2<sup>nd</sup> and 3<sup>rd</sup> stream cannot sync with the camera web. (Camera Firmware issue)

## Release Version v18.3 (2018/03/01)

### Modules:

<b>Device Pack</b>	<b>v 18.3</b>
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### Supported Systems:

Mainconsole	v 4.1.12 and above* / v.6.11.0 above**
NVRmini 2	v 2.1.0 and above***
NVRsolo	v 1.1.1 and above***
Titan NVR	v 1.6.2 and above
NUUO Crystal™	v 2.0.3 and above

### Note:

\*For Mainconsole multi stream and setting function, please upgrade to Mainconsole v5.0.0 and above first.

\* For Mainconsole H.265, please upgrade to Mainconsole v6.0 and above first.

\*\*For DP5.9 upgrade, please upgrade to Mainconsole v.6.11.0 and above first.

\*\*\*For NVRmini 2 and NVRsolo multi stream setting function, please upgrade to NVRmini 2/NVRsolo v2.0.0 and above first.

**If camera is added or upgraded firmware after v4.0, it will support multistream setting.**

### New Camera Supported:

<b>Dahua</b>	IPC-HFW5431E-Z
<b>DivioTec</b>	NDR153P
<b>D-Link</b>	DCS-4602EV [HW: B]
<b>Fine</b>	CDB-2KM552, CDV-2KM502, TCP-KM265
<b>Panasonic</b>	WV-S6110

### FW upgrade:

<b>Dahua</b>	Generic
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### Feature Added:

#### [MainConsole]

1. [Dahua] Generic model support H.265.

#### [NVRMini2/NVRsolo/Titan NVR/NUUO Crystal™]

1. [Dahua] Generic model support H.265.
2. [D-Link] DCS-4622, DCS-4633EV and DCS-4703E support 2<sup>nd</sup> MJPEG.

### Bug Fixed:

#### [NVRMini2/NVRsolo/Titan NVR/NUUO Crystal™]

1. [Dahua] Fix Generic model disconnect frequently.
2. [ONVIF] Fix ONVIF/ONVIF sub stream cannot connect.

## Notice:

### 1. Dahua

#### a. Generic

- i. The range of parameter on camera will be changed by another parameter, our parameter dialog can't synchronise with camera. (Camera Firmware issue)
- ii. Image Parameters cannot be set normally. (Camera Firmware issue)
- iii. Audio G.711A (16k) and G.711Mu (16k) works abnormal. (NUUO server limitation)
- iv. PTZ cannot normally use Speed and AutoPan functions. (Camera Firmware issue)
- v. DO cannot normally work. (Camera Firmware issue)
- vi. Camera with H.265 will have gray image. (NUUO server limitation)
- vii. The preset function works abnormal. (NUUO server limitation)

#### b. IPC-HFW5431E-Z

- i. Camera with H.265 will have gray image. (NUUO server limitation)

### 2. DivioTec

#### a. NDR153P

- i. Camera search failed. (Camera Firmware issue)
- ii. HTTP Port cannot be changed. (Camera Firmware issue)
- iii. DI/DO works abnormal. (Camera Hardware issue)
- iv. Camera doesn't support Hue. (ONVIF server limitation)
- v. Camera doesn't support Flip/Mirror. (ONVIF server limitation)

### 3. D-Link

#### a. DCS-4602EV

- i. The bitrate list cannot sync with the camera web. (Camera Firmware issue)

### 4. Panasonic

#### a. WV-S6110

- i. Camera search cannot work normal if its search time too long. (Camera Firmware issue)

## Release Version v18.2 (2018/02/01)

### Modules:

<b>Device Pack</b>	<b>v 18.2</b>
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### Supported Systems:

Mainconsole	v 4.1.12 and above* / v.6.11.0 above**
NVRmini 2	v 2.1.0 and above***
NVRsolo	v 1.1.1 and above***
Titan NVR	v 1.6.2 and above
NUUO Crystal™	v 2.0.3 and above

### Note:

\*For Mainconsole multi stream and setting function, please upgrade to Mainconsole v5.0.0 and above first.

\* For Mainconsole H.265, please upgrade to Mainconsole v6.0 and above first.

\*\*For DP5.9 upgrade, please upgrade to Mainconsole v.6.11.0 and above first.

\*\*\*For NVRmini 2 and NVRsolo multi stream setting function, please upgrade to NVRmini 2/NVRsolo v2.0.0 and above first.

**If camera is added or upgraded firmware after v4.0, it will support multistream setting.**

### New Camera Supported:

<b>D-Link</b>	DCS-4605EV
<b>Forenix</b>	NPB-8065BM-M
<b>SANTEC</b>	SNC-831DBIA
<b>Vivotek</b>	FD8179-H, FD8379-HV

### FW upgrade:

<b>Zaivo</b>	D4220
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### Feature Added:

#### [NVRMini2/NVRsolo/Titan NVR/NUUO Crystal™]

1. [D-Link] DCS-4701E and DCS-4802E support 2<sup>nd</sup> MJPEG.

### Bug Fixed:

#### [MainConsole]

1. [ALL Brand] Fix RTSP URL has information security.
2. [Axis] Fix P1405-LE MK II cannot change parameters of stream 2/3.
3. [Axis] Fix P3227-LVE let MainConsole crash.
4. [ONVIF] Fix DI Alarm is not interrupted.
5. [ONVIF] Fix Event Metadata's setting is not validated.
6. [ONVIF] Fix media address of media 2 is incorrect.

7. [Panasonic] Fix fisheye camera let MainConsole crash.
8. [Sunell] Fix Generic camera probability let MainConsole crash.
9. [Sunell] Fix Generic camera Chinese preset name is garbled.

## [NVRMini2/NVRsolo/Titan NVR/NUUO Crystal™]

1. [ALL Brand] Fix RTSP URL has information security.
2. [Hikvision] Fix Generic model DO alarm is abnormal.
3. [Hikvision] Fix Genric Server cannot connect and trigger motion.
4. [Hikvision] Fix Generic Server cannot stop to record when stop triggering motion.
5. [ONVIF] Fix Event Metadata's setting is not validated.
6. [ONVIF] Fix media address of media 2 is incorrect.

### Notice:

#### 1. **Forenix**

##### a. NPB-8065BM-M

- i. Auto Detect and Camera Search cannot work normally. (Camera Firmware issue)

#### 2. **SANTEC**

##### a. SNC-831DBIA

- i. Camera Search cannot work normally. (Camera Firmware issue)
- ii. After set the Hue value, the live view won't show the change. (Camera Firmware issue)

#### 3. **Zavio**

##### a. D4220

- i. Snapshot to FTP cannot work normally. (Camera Firmware issue)

## Release Version v18.1 (2018/01/01)

### Modules:

**Device Pack**                      **v 18.1**

### Supported Systems:

Mainconsole	v 4.1.12 and above* / v.6.11.0 above**
NVRmini 2	v 2.1.0 and above***
NVRsolo	v 1.1.1 and above***
Titan NVR	v 1.6.2 and above
NUUO Crystal™	v 2.0.3 and above

### Note:

\*For Mainconsole multi stream and setting function, please upgrade to Mainconsole v5.0.0 and above first.

\* For Mainconsole H.265, please upgrade to Mainconsole v6.0 and above first.

\*\*For DP5.9 upgrade, please upgrade to Mainconsole v.6.11.0 and above first.

\*\*\*For NVRmini 2 and NVRsolo multi stream setting function, please upgrade to NVRmini 2/NVRsolo v2.0.0 and above first.

**If camera is added or upgraded firmware after v4.0, it will support multistream setting.**

### New Camera Supported:

<b>D-Link</b>	DCS-P603, DCS-P703
<b>Sentryway</b>	0200-0300-30

### FW upgrade:

<b>CHAMP</b>	BL7304
<b>Hikvision</b>	Generic

### Feature added:

#### [MainConsole]

1. [CHAMP] Support Edge record.
2. [Hikvision] Generic model support H.265.

### Bug Fixed:

#### [MainConsole]

1. [Hikvision] Fix Generic model can not connect.
2. [Hikvision] Fix Generic model can not trigger motion.

#### [NVRMini2/NVRsolo/Titan NVR/NUUO Crystal™]

1. [Hikvision] Fix Generic model can not connect.
2. [Hikvision] Fix Generic model can not trigger motion.

Notice:

## 1. D-Link

### a. DCS-P603

- i. The framerate list with H.264 and 2048x1536 can not sync with the camera web.  
(Camera Firmware issue)

## 2. Hikvision

### a. Generic

- i. DO alarm is abnormal. (NUUO server limitation)

## 3. Sentryway

### a. 0200-0300-30

- i. The camera resolution 1920\*1088 should be 1920\*1080. (Camera Firmware issue)
- ii. Auto Detect and Search can not work. (Camera Firmware issue)
- iii. The preset points can not sync with the camera web. (Camera Firmware issue)



## Release Version v5.15 (2017/12/15)

### Modules:

**Device Pack**                      **v 5.15**

### Supported Systems:

Mainconsole	v 4.1.12 and above* / v.6.11.0 above**
NVRmini 2	v 2.1.0 and above***
NVRsolo	v 1.1.1 and above***
Titan NVR	v 1.6.2 and above
NUUO Crystal™	v 2.0.3 and above

### Note:

\*For Mainconsole multi stream and setting function, please upgrade to Mainconsole v5.0.0 and above first.

\* For Mainconsole H.265, please upgrade to Mainconsole v6.0 and above first.

\*\*For DP5.9 upgrade, please upgrade to Mainconsole v.6.11.0 and above first.

\*\*\*For NVRmini 2 and NVRsolo multi stream setting function, please upgrade to NVRmini 2/NVRsolo v2.0.0 and above first.

**If camera is added or upgraded firmware after v4.0, it will support multistream setting.**

### New Camera Supported:

<b>D-Link</b>	DCS-7517B
<b>FINE</b>	AT-HK4A26LPR-LZS, AT-HK4A26LPR-Z, AT-HK4A26LPR-ZHS, AT-HKTCG225
<b>Hikvision</b>	DS-2CD4D36FWD-IZP
<b>Vivotek</b>	FE9382-EHV, SD9361-EHL

### FW upgrade:

**D-Link**                      DCS-7517, DCS-930LB

### Feature added:

#### [MainConsole]

1. [NetworkCamera] ActivaPro support IVS event.
2. [Sunell] Support IVS event.

#### [NVRMini2/NVRsolo/Titan NVR/NUUO Crystal™]

1. [D-Link] DCS-4602EV and DCS-4802E support dual stream mjpeg.

### Bug Fixed:

#### [MainConsole]

1. [ACTi] Fix live view will start jittering if turn on the B2 frames.
2. [ACTi] Fix edge record of V24 was not retrieved after restarting Mainconsole.

3. [D-Link] Fix camera has Audio-in noise.
4. [D-Link] Fix DCS-7517 Zoom can not work.
5. [D-Link] Fix DCS-7517B has the floating watermark.
6. [D-Link] Fix DCS-930LB can not set image.
7. [Forenix] Fix NPB-2065BM-M has the floating watermark.
8. [ONVIF] Fix camera has the floating watermark.
9. [ONVIF] Fix ONVIF17.06 Focus can not work.
10. [ONVIF] Fix Mainconsole crashed when ONVIF17.06 get the parameters.

## [NVRMini2/NVRsolo/Titan NVR/NUUO Crystal™]

1. [D-Link] Fix camera has audio-in noise.
2. [D-Link] Fix DCS-7517 Zoom can not work.
3. [Dahua] Fix the RTSP URL construct.
4. [Forenix] Fix NPB-2065BM-M has the floating watermark.
5. [ONVIF] Fix ONVIF17.06 with H.265 can not connect.
6. [ONVIF] Fix ONVIF17.06 PTZ can not work.
7. [ONVIF] Fix ONVIF17.06 can not get the parameters.

### Notice:

#### 1. **D-Link**

##### a. DCS-7517

- i. 2<sup>nd</sup> and 3<sup>rd</sup> stream have the display mosaic issue when 1<sup>st</sup> stream with MJPEG resolution is higher than 2048x1536. (Camera Firmware issue)

#### 2. **Hikvision**

##### a. DS-2CD4D36FWD-IZP

- i. When Format is H.265, the image will be gray. (NUUO limitation)

#### 3. **Vivotek**

##### a. SD9361-EHL

- i. PTZ speed range is not synchronized with camera web. (Camera Firmware issue)

## Release Version v5.14 (2017/11/15)

### Modules:

**Device Pack**                      **v 5.14**

### Supported Systems:

Mainconsole	v 4.1.12 and above* / v.6.11.0 above**
NVRmini 2	v 2.1.0 and above***
NVRsolo	v 1.1.1 and above***
Titan NVR	v 1.6.2 and above
NUUO Crystal™	v 2.0.3 and above

### Note:

\*For Mainconsole multi stream and setting function, please upgrade to Mainconsole v5.0.0 and above first.

\* For Mainconsole H.265, please upgrade to Mainconsole v6.0 and above first.

\*\*For DP5.9 upgrade, please upgrade to Mainconsole v.6.11.0 and above first.

\*\*\*For NVRmini 2 and NVRsolo multi stream setting function, please upgrade to NVRmini 2/NVRsolo v2.0.0 and above first.

**If camera is added or upgraded firmware after v4.0, it will support multistream setting.**

### New Camera Supported:

<b>Brickcom</b>	OSD-200Np
<b>D-Link</b>	DCS-4633EV
<b>DivoTec</b>	NBR321, NBR325P, NBR326P, NDF341, NDF342, NDR351, NDM361, NDR352P, TBR720, TBR722, TBR723, TDR751
<b>NetworkCamera</b>	ActivaPro
<b>Vivotek</b>	FE9382-EHV

### Feature added:

#### [MainConsole]

1. [Sunell] – Support Edge Record.

### Bug Fixed:

#### [MainConsole]

1. [ACTi] – Fix 64bit mainconsole ACTi camera lost.
2. [CHAMP] – Fix the floating watermark.
3. [ALL Brand] – Fix Mainconsole crashes after adding or setting an ONVIF17.06 camera.

#### [NVRMini2/NVRsolo/Titan NVR/NUUO Crystal™]

1. [CHAMP] – Fix the floating watermark.
2. [Dahua] –Fix IPC-HDBW2320R-ZS cannot receive motion signal.

3. [Hikvision] – Fix Hikvision camera cannot hold more than 9 preset points.

Notice:

1. **NetworkCamera**

- a. ActivaPro

- i. Camera does not support UPnP search. (Camera Firmware issue)
- ii. Camera does not support auto detect. (Camera Firmware issue)

2. **Vivotek**

- a. FE9382-EHV

- i. Camera with MJPEG format, CBR mode may cause the display mosaic issue.  
(Camera performance limitation)

## Release Version v5.13 (2017/10/15)

### Modules:

**Device Pack**                      **v 5.13**

### Supported Systems:

Mainconsole	v 4.1.12 and above* / v.6.11.0 above**
NVRmini 2	v 2.1.0 and above***
NVRsolo	v 1.1.1 and above***
Titan NVR	v 1.6.2 and above
NUUO Crystal™	v 2.0.3 and above

### Note:

\*For Mainconsole multi stream and setting function, please upgrade to Mainconsole v5.0.0 and above first.

\* For Mainconsole H.265, please upgrade to Mainconsole v6.0 and above first.

\*\*For DP5.9 upgrade, please upgrade to Mainconsole v.6.11.0 and above first.

\*\*\*For NVRmini 2 and NVRsolo multi stream setting function, please upgrade to NVRmini 2/NVRsolo v2.0.0 and above first.

**If camera is added or upgraded firmware after v4.0, it will support multistream setting.**

### New Camera Supported:

<b>Divotec</b>	TBR721
<b>Dynacolor</b>	Z2SD-F
<b>Forenix</b>	NPC-4215, NSPD-8220-OH

### FW upgrade:

<b>Axis</b>	P5635-E
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### Feature added:

#### [MainConsole]

1. [D-Link] – Add Onvif Brand to DCS-100.

### Bug Fixed:

#### [MainConsole]

1. [Forenix] – Fix the floating watermark.
2. [ALL Brand] – Fix Mainconsole liveview is always abnormal.
3. [ALL Brand] – Fix Maninconsole hangs.

#### [NVRMini2/NVRsolo/Titan NVR/NUUO Crystal™]

1. [Bosch] –Fix Bosch cameras cause server crash.
2. [Forenix] – Fixe Forenix cameras abnormal disconnect.
3. [Hikvision] – Fix Patrol is stopping randomly.

Notice:

1. **Axis**
  - b. P5635-E
    - i. DI/DO and Audio-in/out can not test without adapter.

## Release Version v5.12 (2017/9/15)

### Modules:

<b>Device Pack</b>	<b>v 5.12</b>
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### Supported Systems:

Mainconsole	v 4.1.12 and above* / v.6.11.0 above**
NVRmini 2	v 2.1.0 and above***
NVRsolo	v 1.1.1 and above***
Titan NVR	v 1.6.2 and above
NUUO Crystal™	v 2.0.3 and above

### Note:

\*For Mainconsole multi stream and setting function, please upgrade to Mainconsole v5.0.0 and above first.

\* For Mainconsole H.265, please upgrade to Mainconsole v6.0 and above first.

\*\*For DP5.9 upgrade, please upgrade to Mainconsole v.6.11.0 and above first.

\*\*\*For NVRmini 2 and NVRsolo multi stream setting function, please upgrade to NVRmini 2/NVRsolo v2.0.0 and above first.

**If camera is added or upgraded firmware after v4.0, it will support multistream setting.**

### New Camera Supported:

<b>Forenix</b>	NPD-4320, NPF-4520
<b>Network</b>	AT-HK4A26LPR-ZS
<b>Onvif</b>	ONVIF 17.06
<b>Samsung</b>	XNB-8000, XND-6080, XND-6080R, XND-6080RV, XND-6080V, XNO-8080R
<b>Vivotek</b>	FD816BA-HF2, FD816BA-HF3, FD816BA-HT, FD8182-F2, FD8182-T, FD836BA-HT, FD836BA-HTV, FD836BA-HVF2, FD8382-ETV, FD8382-EVF2, FD8382-TV, FD8382-VF2, IB836BA-HF3, IB836BA-HT, IB8382-EF3, IB8382-ET, IB8382-F3, IB8382-RF3, IB8382-RT, IB8382-T
<b>Zavio</b>	P8220

### FW upgrade:

<b>D-Link</b>	DCS-6616
<b>Sunell</b>	Generic

### Feature added:

#### [MainConsole]

1. [Hikvision] – Support Flip and Mirror.

#### [NVRMini2/NVRsolo/Titan NVR/NUUO Crystal™]

1. [Onvif] – “ONVIF 17.06” is using onvif version 17.06 and support H.265.
2. [Sunell] –Generic model is upgraded onvif version to 17.06 and support H.265.
3. [Vivotek] – Support Edge Record.

## Bug Fixed:

### [MainConsole]

1. [Axis] – Fix Q3708-PVE 2<sup>nd</sup> and 3<sup>rd</sup> channel motion trigger failed. issue.
2. [Sunell] – Fix the issue that except for 1<sup>st</sup> channel, DI trigger abnormal.
3. [Zavio] – Fix IVS event crash issue, and support People Density and Tripwire for Firmware XX\_XX30 and above.
4. [All Brand] – Fix H.265 connection logic.

### [NVRMini2/NVRsolo/Titan NVR/NUUO Crystal™]

1. [Axis] –Fix Q3708-PVE 2<sup>nd</sup> and 3<sup>rd</sup> channel motion trigger failed. issue.

## Notice:

### 1. D-Link

- a. DCS-6616
  - i. Unable to UPnP Search. (Camera Firmware issue)
  - ii. When format is H.264, camera is unable to achieve the setting bitrate. (Camera performance limitation)
  - iii. Camera is unable to achieve maximum FPS. (Camera performance limitation)

### 2. Forenix

- a. NPD-4320
  - i. Audio-out (talk) has noise. (Camera Firmware issue)
- b. NPF-4520
  - i. Audio-out (talk) has noise. (Camera Firmware issue)

### 3. NetworkCamera

- a. AT-HK4A26LPR-ZS
  - i. Unable to UPnP Search. (Camera Firmware issue)

### 4. ONVIF

- a. ONVIF 17.06
  - i. The result of camera search is wrong. (NUUO server limitation)
  - ii. Audio-out (talk) can not work. (Camera Firmware issue)

### 5. Samsung

- a. XNO-8080R
  - i. If format set to MJPEG, the image with high resolution will has display mosaic issue. (Camera performance limitation)

### 6. Sunell

- a. Generic



- i. The result of camera search is wrong. (NUUO server limitation)
- ii. Audio-out (talk) can not work. (Camera Firmware issue)

## 7. **Vivotek**

- a. FD816BA-HF2
  - i. Not support talk. (Camera Firmware issue)

## Release Version v5.11 (2017/8/15)

### Modules:

**Device Pack**                      **v 5.11**

### Supported Systems:

Mainconsole	v 4.1.12 and above* / v.6.11.0 above**
NVRmini 2	v 2.1.0 and above***
NVRsolo	v 1.1.1 and above***
Titan NVR	v 1.6.2 and above
NUUO Crystal™	v 2.0.3 and above

### Note:

\*For Mainconsole multi stream and setting function, please upgrade to Mainconsole v5.0.0 and above first.

\* For Mainconsole H.265, please upgrade to Mainconsole v6.0 and above first.

\*\*For DP5.9 upgrade, please upgrade to Mainconsole v.6.11.0 and above first.

\*\*\*For NVRmini 2 and NVRsolo multi stream setting function, please upgrade to NVRmini 2/NVRsolo v2.0.0 and above first.

**If camera is added or upgraded firmware after v4.0, it will support multistream setting.**

### New Camera Supported:

<b>Forenix</b>	NVS-AH04
<b>Onvif</b>	ONVIF 17.06
<b>Vivotek</b>	FD8166A, FD8167A, FD8169A, FD8367-V, FD8369-V, IB8367A, IB8369A, IP8166

### FW upgrade:

<b>ACTi</b>	V24
<b>AXIS</b>	Q7308-PVE
<b>D-Link</b>	DCS-6616
<b>Sunell</b>	Generic

### Feature added:

#### [MainConsole]

1. [ACTi] – Support Edge Record.
2. [Axis] – Support Video Motion Detection 4.
3. [Onvif] – “ONVIF 17.06” is using onvif version 17.06 and support H.265.
4. [Sunell] –Generic model is upgraded onvif version to 17.06 and support H.265.

#### [NVRMini2/NVRsolo/Titan NVR/NUUO Crystal™]

1. [Axis] –Support Video Motion Detection 4.

## Bug Fixed:

### [MainConsole]

1. [D-Link] – Fix audio has noise.

### [NVRMini2/NVRsolo/Titan NVR/NUUO Crystal™]

1. [D-Link] – Fix audio has noise when using HTTP protocol.
2. [Hikvision] – The dual stream can not connect using H.264.
3. [Sunell] – Can not get any motion event when running a few hours.

## Notice:

### 1. **AXIS**

#### a. Q3708-PVE

- i. The camera with MJPEG is unable to achieve highest FPS. (Camera Firmware issue)

### 2. **ONVIF**

#### a. ONVIF 17.06

- i. The result of camera search is wrong. (NUUO server limitation)

### 3. **Vivotek**

#### a. FD8169A

- i. Unable to achieve maximum FPS with highest quality and resolution if the format is MJPEG. (Camera performance limitation)
- ii. Unable to get video paramters on Titan series server. (NUUO server limitation)

## Release Version v5.10 (2017/7/14)

### Modules:

**Device Pack**                      **v 5.10**

### Supported Systems:

Mainconsole	v 4.1.12 and above* / v.6.11.0 above**
NVRmini 2	v 2.1.0 and above***
NVRsolo	v 1.1.1 and above***
Titan NVR	v 1.6.2 and above
NUUO Crystal™	v 2.0.3 and above

### Note:

\*For Mainconsole multi stream and setting function, please upgrade to Mainconsole v5.0.0 and above first.

\* For Mainconsole H.265, please upgrade to Mainconsole v6.0 and above first.

\*\*For DP5.9 upgrade, please upgrade to Mainconsole v.6.11.0 and above first.

\*\*\*For NVRmini 2 and NVRsolo multi stream setting function, please upgrade to NVRmini 2/NVRsolo v2.0.0 and above first.

**If camera is added or upgraded firmware after v4.0, it will support multistream setting.**

### New Camera Supported:

<b>Canon</b>	VB-H651V, VB-H651VE, VB-H652LVE, VB-H751LE, VB-H760VE, VB-H761LVE, VB-M50B, VB-M640VE, VB-641V, VB-M641VE, VB-M70E, VB-M741LE, VB-R10VE, VB-R11, VB-R11VE, VB-R12VE, VB-R13, VB-R13VE, VB-S30VE, VB-S800VE, VB-S910F
<b>Dahua</b>	IPC-HDBW5431E-Z
<b>Fine</b>	SP-HK2107IR-IP, SP-HK8020IR-IP, SP-HK8030IR-IP, SP-HK8120H-IP, SP-HK8120Q-IP
<b>Hikvision</b>	DS-2DE7230IW-AE
<b>Zavio</b>	CB3210, CB3211, CB5220, CD3210, CD3211, CD5220

### FW upgrade:

<b>Canon</b>	VB-M640V
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### Feature added:

#### [MainConsole]

1. [Sunell] – Generic model support Thermal function.
2. [Zavio] – Support Edge IVS event: Tampering Detection, Tripwire, Perimeter Detection, and People Density.

### Bug Fixed:

## [NVRmini 2/NVRsolo]

1. [Axis] – Fix fragmented video when setting camera parameter mode to customize.
2. [ALL Brand] – Fix abnormal size by parsing incorrect audio header.

### Notice:

#### 1. Canon

##### a. VB-R13

- i. Camera setting will synchronize both on stream 2 and stream 3. (Camera Firmware issue)
- ii. Brightness and Saturation can not be set. (Camera Firmware issue)
- iii. Auto Focus can not work normally. (Camera Firmware issue)

#### 2. Dahua

##### a. IPC-HDBW5431E-Z

- i. Motion Detection may not be triggered. (Camera Firmware issue)
- ii. PTZ only support zoom&focus.

#### 3. Hikvision

##### a. DS-2DE7230IW-AE

- i. When Format is H.264, the image will be gray or broken. (Camera performance limitation)

## Release Version v5.9 (2017/6/14)

### Modules:

**Device Pack**                      **v 5.9**

### Supported Systems:

Mainconsole	v 4.1.12 and above* / v.6.11.0 above**
NVRmini 2	v 2.1.0 and above***
NVRsolo	v 1.1.1 and above***
Titan NVR	v 1.6.2 and above
NUUO Crystal™	v 2.0.3 and above

### Note:

\*For Mainconsole multi stream and setting function, please upgrade to Mainconsole v5.0.0 and above first.

\* For Mainconsole H.265, please upgrade to Mainconsole v6.0 and above first.

**\*\*For DP5.9 upgrade, please upgrade to Mainconsole v.6.11.0 and above first.**

\*\*\*For NVRmini 2 and NVRsolo multi stream setting function, please upgrade to NVRmini 2/NVRsolo v2.0.0 and above first.

**If camera is added or upgraded firmware after v4.0, it will support multistream setting.**

### New Camera Supported:

<b>Dahua</b>	IPC-HDBW2320R-ZS, DH-SD6AL230FN-HNI
<b>Panasonic</b>	WV-SC588, WC-SC588A
<b>Samsung</b>	PNV-9080R, QND-6070R, QNO-7080R, QNV-7080R, SNO-8081R, SNP-6230RH
<b>Zavio</b>	CB6330, CD6330

### Notice:

1. **Dahua**
  - a. IPC-HDBW2320R-ZS
    - i. Quality list can not sync with the camera web. (Camera firmware issue)
    - ii. Camera can not control zoom speed setting. (Camera firmware issue)
  - b. DH-SD6AL230FN-HNI
    - i. Camera can not achieve the setting value of the frame rate. (Camera performance limitation)
2. **Panasonic**
  - a. WV-SC588
    - i. Preset Go only supports 64 positions. (NUUO server limitation)

- ii. When stream 1 is H.264, stream 3 only achieves 5 fps. (Camera performance limitation)
  - iii. Audio-out has noise. (Camera performance limitation)
- 3. **Samsung**
  - a. PNV-9080R
    - i. Stream 2 frame rate list can not sync with the camera web. (Camera firmware issue)
    - ii. Camera with multi-stream can not achieve the setting value of the frame rate. (Camera performance limitation)
  - b. QND-6070R
    - i. Stream 3 with high resolution can not achieve the setting value of the frame rate. (Camera performance limitation)
  - c. QNO-7080R
    - i. Stream 3 with high resolution can not achieve the setting value of the frame rate. (Camera performance limitation)
  - d. SNO-8081R
    - i. Stream 3 with high resolution can not achieve the setting value of the frame rate. (Camera performance limitation)
  - e. SNP-6230RH
    - i. Stream 3 with high resolution can not achieve the setting value of the frame rate. (Camera performance limitation)

## Release Version v5.8 (2017/5/8)

### Modules:

**Device Pack**                      **v 5.8**

### Supported Systems:

Mainconsole	v 4.1.12 and above*
NVRmini 2	v 2.1.0 and above**
NVRsolo	v 1.1.1 and above**
Titan NVR	v 1.6.2 and above
NUUO Crystal™	v 2.0.3 and above

### Note:

\*For Mainconsole multi stream and setting function, please upgrade to Mainconsole v5.0.0 and above first.

\*\*For NVRmini 2 and NVRsolo multi stream setting function, please upgrade to NVRmini 2/NVRsolo v2.0.0 and above first.

\*\*\* For Mainconsole H.265, please upgrade to Mainconsole v6.0 and above first.

**If camera is added or upgraded firmware after v4.0, it will support multistream setting.**

### New Camera Supported:

<b>Champ</b>	BL7304, DM7304
<b>Fine</b>	WB-HB04
<b>Forenix</b>	NPB-2065BL, NPB-2065BL-M, NPB-2065BM, NPB-2065BM-M, NPB-2065F, NPB-2065F28, NPD-2065CD, NPD-2065KF, NPD-2065MF, NPV-2065CD, NPV-2065CD-M, NPX-2065DN
<b>Monacor</b>	INC-2000BX, INC-2036BF, INC-2036DF, INC-2036DM, INC-2622BV, INC-2812BV, INC-2812DV
<b>Tyco</b>	ADCi350-B111, ADC-P114-302 IR

### Notice:

1. **Champ**
  - a. BL7304
    - i. The camera with highest parameters are unable to achieve the setting framerate value. (Camera performance limitation)
    - ii. Unable to test DI/DO successfully because hardware limitation.
  - b. DM7304
    - i. The camera with highest quality and resolution are unable to achieve the setting framerate value. (Camera performance limitation)
2. **Forenix**



- a. NPB-2065BM-M
    - i. The camera with highest parameters are unable to achieve the setting framerate value. (Camera performance limitation)
  - b. NPB-2065BL-M / NPV-2065CD-M
    - i. PTZ only support zoom.
3. **Monacor**
- a. INC-2036DM
    - i. The parameter setting can not work under high video parameters. (Camera firmware issue)
    - ii. Can not find this camera via camera searching. (Camera firmware issue)
4. **Tyco**
- a. ADCi350-B111
    - i. UPnP search can not be used. (Camera firmware issue)
    - ii. Audio-out function can not work. (Camera firmware issue)
    - iii. Audio-in function does not support PCM and G722.1 codec. (Camera firmware issue)
  - b. ADC-P114-302 IR
    - i. FPS list can not sync with camera web. (Camera firmware issue)

## Release Version v5.7 (2017/4/13)

### Modules:

<b>Device Pack</b>	<b>v 5.7</b>
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### Supported Systems:

Mainconsole	v 4.1.12 and above*
NVRmini 2	v 2.1.0 and above**
NVRsolo	v 1.1.1 and above**
Titan NVR	v 1.6.2 and above
NUUO Crystal™	v 2.0.3 and above

### Note:

\*For Mainconsole multi stream and setting function, please upgrade to Mainconsole v5.0.0 and above first.

\*\*For NVRmini 2 and NVRsolo multi stream setting function, please upgrade to NVRmini 2/NVRsolo v2.0.0 and above first.

\*\*\* For Mainconsole H.265, please upgrade to Mainconsole v6.0 and above first.

**If camera is added or upgraded firmware after v4.0, it will support multistream setting.**

### New Camera Supported:

<b>Fine</b>	WB-HB01
<b>Forenix</b>	NPB-4065BM-M, NPV-4065CD-M
<b>Zavio</b>	CD6230, CB6230

### FW upgrade:

<b>D-Link</b>	DCS-7517, DCS-6517
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### Notice:

1. D-Link
  - a. DCS-7517
    - i. The camera with highest parameters are unable to achieve the setting framerate value. (Camera performance issue)
    - ii. The stream's parameters may be can not sync. with camera's web. (Camera firmware limitation)
    - iii. Snapshot can not normally work. (NUUO server limitation)
2. Fine
  - a. WB-HB01
    - i. The camera with highest parameters are unable to achieve the setting framerate value. (Camera performance issue)

## Release Version v5.6 (2017/3/10)

### Modules:

**Device Pack**                      **v 5.6**

### Supported Systems:

Mainconsole	v 4.1.12 and above*
NVRmini 2	v 2.1.0 and above**
NVRsolo	v 1.1.1 and above**
Titan NVR	v 1.6.2 and above
NUUO Crystal™	v 2.0.3 and above

### Note:

\*For Mainconsole multi stream and setting function, please upgrade to Mainconsole v5.0.0 and above first.

\*\*For NVRmini 2 and NVRsolo multi stream setting function, please upgrade to NVRmini 2/NVRsolo v2.0.0 and above first.

\*\*\* For Mainconsole H.265, please upgrade to Mainconsole v6.0 and above first.

**If camera is added or upgraded firmware after v4.0, it will support multistream setting.**

### New Camera Supported:

<b>Adler</b>	ZH2030R-AW
<b>Fine</b>	TCP-KM470Z10
<b>Forenix</b>	NSPD-4065-10X, NSPD-2065-30X
<b>Sunell</b>	SN-IPR57/41ACDN/Z
<b>Zavio</b>	D4220
<b>Panasonic</b>	BB-SC364, BB-SW374
<b>D-Link</b>	DCS-6212L

### FW upgrade:

<b>Vivotek</b>	FD9371-EHTV, FD9171-HT, IB9371-EHT, IB9371-HT, IP9171-HP
<b>Zavio</b>	B8220

### Notice:

1. **Adler**
  - a. ZH2030R-AW
    - i. The connection is unstable with high parameters. (Camera performance issue)
2. **Fine**
  - a. TCP-KM470Z10
    - i. The camera with highest bitrate and resolution are unable to achieve the setting framerate value. (Camera performance issue)
3. **Panasonic**

- a. BB-SC364
  - i. The camera unable to auto pan, even via cgi command.
  - ii.

## Release Version v5.5 (2017/2/10)

### Modules:

**Device Pack**                      **v 5.5**

### Supported Systems:

Mainconsole	v 4.1.12 and above*
NVRmini 2	v 2.1.0 and above**
NVRsolo	v 1.1.1 and above**
Titan NVR	v 1.6.2 and above
NUUO Crystal™	v 2.0.3 and above

### Note:

\*For Mainconsole multi stream and setting function, please upgrade to Mainconsole v5.0.0 and above first.

\*\*For NVRmini 2 and NVRsolo multi stream setting function, please upgrade to NVRmini 2/NVRsolo v2.0.0 and above first.

\*\*\* For Mainconsole H.265, please upgrade to Mainconsole v6.0 and above first.

**If camera is added or upgraded firmware after v4.0, it will support multistream setting.**

### New Camera Supported:

<b>Vivotek</b>	FD8369A-V, FD9371-EHTV, FD9171-HT, IB9371-EHT, IB9371-HT, IP9171-HP
<b>Zavio</b>	P8220
<b>Hunt</b>	HLV-1MED, HLV-1WED, HLC-15EM, HLC-7AED

### FW upgrade:

<b>Dlink</b>	DCS-6511, DCS-7513
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### Notice:

1. **Dlink**
  - a. DCS-7513
    - i. The camera with highest bitrate and resolution are unable to achieve the setting framerate value. (Camera performance issue)
    - iv. Talk function is delay 7~8 seconds. (Camera firmware issue)
2. **Vivotek**
  - a. FD8369A-V
    - i. The camera with some parameter settings is unable to achieve the setting framerate value. (Camera performance issue)
3. **Zavio**
  - a. P8220
    - i. The camera with some parameter settings is unable to achieve the setting framerate value. (Camera performance issue)

## 4. Hunt

### a. HLC-7AED

- i. The camera with highest parameter is unable to achieve the parameter setting value. (Camera performance issue)
- ii. The camera's audio has some noise. (Camera performance issue)

## Release Version v5.4 (2017/1/6)

### Modules:

**Device Pack**                      **v 5.4**

### Supported Systems:

Mainconsole	v 4.1.12 and above*
NVRmini 2	v 2.1.0 and above**
NVRsolo	v 1.1.1 and above**
Titan NVR	v 1.6.2 and above
NUUO Crystal™	v 2.0.3 and above

### Note:

\*For Mainconsole multi stream and setting function, please upgrade to Mainconsole v5.0.0 and above first.

\*\*For NVRmini 2 and NVRsolo multi stream setting function, please upgrade to NVRmini 2/NVRsolo v2.0.0 and above first.

\*\*\* For Mainconsole H.265, please upgrade to Mainconsole v6.0 and above first.

**If camera is added or upgraded firmware after v4.0, it will support multistream setting.**

### New Camera Supported:

<b>Adler</b>	AD-AGB8025-SD4F, AD-TGB3020-AW4FZ, AMH3025, AMU8030, TXB3020
<b>Fine</b>	CDV-10KV313, SP-HK2020C-IP, SP-HK2020CM-IP, SP-HK2028Q-AIP, SP-HK2033Q-AIP, SP-HK2033Q-IP, SP-HK204MP, SP-HK2050R-LA, SP-HK5220R-IP, SP-HK5233R-IP, SP-HK6230SR-AIP, SP-HK6233R-AIP, SP-HK6240SR-AIP, TCP-10KB313
<b>Hikvision</b>	DS-2DE5220I-AE
<b>Panasonic</b>	BB-SC382, BB-SC384B

### FW upgrade:

<b>Dlink</b>	DCS-6004L, DCS-6005L
<b>Zavio</b>	B6330, B6530, B8520, D4211, D6330, D6530, D8520, F4215, F7220, F7320, F7520

### Notice:

1. **Adler**
  - a. AMH3025
    - i. The stream's parameters may not synchronize with camera's web. (NUUO server limitation)
  - b. AMU8030

- i. The parameter list may not synchronize with camera's web. (NUUO server limitation)
  - ii. The camera with highest parameter is unable to achieve the parameter setting value. (Camera performance issue)
- 2. **D-Link**
  - a. DCS-6004L
    - i. Stream 2 will use stream 3's RTSP URL to connect and stream 3 will use stream 2's RTSP URL to connect. (Camera firmware issue)
- 3. **Fine**
  - a. TCP-10KB313
    - i. The camera with highest parameter is unable to achieve the parameter setting value. (Camera performance issue)
    - ii. The mirror and flip can only be used at the same time or not. (Camera firmware issue)
- 4. **Panasonic**
  - a. BB-SC384B
    - i. Can not set bitrate to lower than 128kbps for stream 1. (Camera firmware issue)
    - ii. Audio out works fail. (Camera firmware issue)
- 5. **Zavio**
  - a. B8520
    - i. Can not retrieve the recording file from camera. (Camera firmware issue)

## Feature added:

### [MainConsole]

- 1. [Axis] Adding a non-supported Axis model while using Search and Auto Detection functions will show the model name followed by the words "Generic" in parenthesis.



## Release Version v5.3 (2016/12/9)

### Modules:

**Device Pack**                      **v 5.3**

### Supported Systems:

Mainconsole	v 4.1.12 and above*
NVRmini 2	v 2.1.0 and above**
NVRsolo	v 1.1.1 and above**
Titan NVR	v 1.6.2 and above
NUUO Crystal™	v 2.0.3 and above

### Note:

\*For Mainconsole multi stream and setting function, please upgrade to Mainconsole v5.0.0 and above first.

\*\*For NVRmini 2 and NVRsolo multi stream setting function, please upgrade to NVRmini 2/NVRsolo v2.0.0 and above first.

\*\*\* For Mainconsole H.265, please upgrade to Mainconsole v6.0 and above first.

**If camera is added or upgraded firmware after v4.0, it will support multistream setting.**

### New Camera Supported:

<b>Adler</b>	TSD3012
<b>Axis</b>	C3003-E, M7016
<b>D-Link</b>	DCS-2530L
<b>Dahua</b>	SD6C430UN-HN
<b>Fine</b>	CDB-MD605, SP-HK6333R- AIP, SP-HK3303R- IP, SP-HK3033Q- AIP, SP-HK6340R- AIP
<b>Forenix</b>	NPB-4065BL-M
<b>Hikvision</b>	DS-2CD2620F-IZS, DS-2CD2620F-I, DS-2CD2620F-IZ, DS-2CD2620F-IS
<b>OPTEC</b>	IP36MDOM3MPX
<b>Vivotek</b>	FD8167

### FW upgrade:

<b>Fine</b>	CDB-MD602, CDV-MD605, TCP-MB602, TCP-MB605, TCP-MB685, TCP-MZ602, TCP-MZ605
<b>Forenix</b>	NPB-4065BM, NPD-4065CD, NPV-4065CD, NPX-4065DN

### Notice:

1. **Adler**
  - a. TSD3012
    - i. PTZ function may be not normally work using RS-485. (Camera firmware issue)

- ii. Alarm In/Out can not normally work. (Camera firmware issue)
  - iii. Sometimes can not normally get video parameter. (Camera firmware issue)
- 2. **D-Link**
  - a. DCS-2530L
    - i. PTZ function may be not normally work using RS-485. (Camera firmware issue)
    - ii. Alarm In/Out can not normally work. (Camera firmware issue)
    - iii. Sometimes can not normally get video parameter. (Camera firmware issue)
- 3. **Fine**
  - a. CDV-MD602
    - i. Bitrate list of stream 2 may not synchronice with camera web. (Camera firmware issue)
    - ii. Framerate list won't synchronize with camera web when format is MJPEG. And it'll fail when framerate be changed to 20, 25 or 30. (Camera firmware issue)
    - iii. If set the input resolution to 1080p HD 12bit 60fps (D-WDR) on camera webpage, stream 2, 3 will can not be connect and can not change parameters on our server. (Camera firmware issue)
- 4. **Forenix**
  - a. NPB-4065BL-M
    - i. Camera is unable to achieve highest framerate. (Camera performance issue)
- 5. **OPTEC**
  - a. IP36MDOM3MPX
    - i. The bitrate list can not sync. with camera's web. (Camera firmware issue)
    - ii. The framerate list can not sync. with camera's web. (Camera firmware issue)
- 6. **Vivotek**
  - b. FD8167
    - iii. Camera is unable to achieve highest framerate. (Camera performance issue)

## Bug Fixed:

### [MainConsole/NVRMini2/NVRsolo/Titan NVR/NUUO Crystal™]

- 1. Fix that DCS-960L audio has noise.

### [NVRMini2/NVRsolo/Titan NVR/NUUO Crystal™]

- 1. Fix that Hikvision generic cannot get parameters and error channel count.

### [MainConsole]

- 1. Fix that Arecont camera cannot be connected.
- 2. Fix that using Pelco camera preset lead to MainConsole crash.

## Feature added:

### [MainConsole]

- 1. Generic RTSP only garanted RTSP liveview only.

## Release Version v5.2 (2016/11/4)

### Modules:

<b>Device Pack</b>	<b>v 5.2</b>
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### Supported Systems:

Mainconsole	v 4.1.12 and above*
NVRmini 2	v 2.1.0 and above**
NVRsolo	v 1.1.1 and above**
Titan NVR	v 1.6.2 and above
NUUO Crystal™	v 2.0.3 and above

### Note:

\*For Mainconsole multi stream and setting function, please upgrade to Mainconsole v5.0.0 and above first.

\*\*For NVRmini 2 and NVRsolo multi stream setting function, please upgrade to NVRmini 2/NVRsolo v2.0.0 and above first.

\*\*\* For Mainconsole H.265, please upgrade to Mainconsole v6.0 and above first.

**If camera is added or upgraded firmware after v4.0, it will support multistream setting.**

### New Camera Supported:

<b>Axis</b>	M7016, Q3708-PVE, P1364
<b>Fine</b>	TCP-MH859G
<b>Forenix</b>	NPV-1080CDX-M, NVS-AH01
<b>Hikvision</b>	DS-2CD2142FWD-I
<b>Vivotek</b>	CC8370-HV, FD9371-HTV

### FW upgrade:

<b>Fine</b>	CDB-5VM551G, TCP-VM559G, CDV-5VM501G
<b>Hikvision</b>	DS-2CD2142FWD-IWS, DS-2CD2342WD-I

### Notice:

1. **Axis**
  - a. M7016
    - i. Camera is unable to achieve maximum bitrate when the resolution is 2CIF, CIF or QCIF. (Camera performance limitaion)
    - ii. Camera with MJPEG is unable to achieve maximum framerate. (Camera performance limitaion)
  - b. P1364
    - i. Camera with H.264 is unable to achieve maximum bitrate. (Camera performance limitation)

- ii. Camera picture will break if the compression rate value is high. (camera performance limitation)
      - iii. Playback may be abnormal. (NUUO server limitation)
    - c. Q3708-PVE
      - i. Camera with H.264 is unable to achieve setting bitrate. (Camera performance limitation)
      - ii. Camera with MJPEG is unable to achieve maximum FPS. (Camera performance limitation)
      - iii. Playback may be abnormal. (NUUO server limitation)
- 2. **Fine**
  - a. CDB-5VM551G
    - i. Camera via MJPEG with high parameters is unable to achieve setting framerate. (Camera performance limitation)
    - ii. Camera via H.264 is unable to achieve setting bitrate. (Camera performance limitation)
- 3. **Forenix**
  - a. NPV-1080CDX-M
    - i. Audio is intermittent. (Camera firmware issue)
    - ii. Can not detect the model name. (Camera firmware issue)
    - iii. Camera is unable to achieve setting framerate and bitrate. (Camera performance issue)
  - b. NVS-AH01
    - i. The resolution list would not synchronize with camera web. (Camera firmware issue)
    - ii. Camera with MJPEG is unable to achieve setting framerate. (Camera performance limitation)
- 4. **Vivotek**
  - a. CC8370-HV
    - i. Camera is unable to achieve maximum FPS and bitrate. (camera performance limitation)
    - ii. When the resolution change from 2048x1536 to 1600x1200, live view will be abnormal. (NUUO server limitation)
  - b. FD9371-HTV
    - i. Camera is unable to achieve maximum bitrate under the format H.264 or H.265. (camera performance limitation)
    - ii. H.265 only supported at Crystal 3.x. (NUUO server limitation)

## Feature added:

## **[NVRMini2/NVRsolo/Titan NVR/NUUO Crystal™]**

1. Enable the protocol UDP for Arecont.

## **Bug Fixed:**

### **[MainConsole/NVRMini2/NVRsolo/Titan NVR/NUUO Crystal™]**

1. Fix that the main stream in Axis video server every channels use the same streaming.

### **[MainConsole]**

1. Fix that Onvif can not connect.

## Release Version v5.1 (2016/10/7)

### Modules:

<b>Device Pack</b>	<b>v 5.1</b>
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### Supported Systems:

Mainconsole	v 4.1.12 and above*
NVRmini 2	v 2.1.0 and above**
NVRsolo	v 1.1.1 and above**
Titan NVR	v 1.6.2 and above
NUUO Crystal™	v 2.0.3 and above

### Note:

\*For Mainconsole multi stream and setting function, please upgrade to Mainconsole v5.0.0 and above first.

\*\*For NVRmini 2 and NVRsolo multi stream setting function, please upgrade to NVRmini 2/NVRsolo v2.0.0 and above first.

\*\*\* For Mainconsole H.265, please upgrade to Mainconsole v6.0 and above first.

**If camera is added or upgraded firmware after v4.0, it will support multistream setting.**

### New Camera Supported:

<b>D-Link</b>	DCS-4721
<b>Vivotek</b>	FD816B-HF2

### FW upgrade:

<b>Samsung</b>	SNB-5004
<b>Fine</b>	TCP-VM469Z42, CDB-4VM551, CDV-4F936, CDV-4VM501, CDV-4VM501Z42, TCP-BF428, TCP-VM469

### Notice:

1. **D-Link**
  - a. DCS-4721
    - i. FPS List is not synchronized with camera web. (Camera firmware issue)
    - ii. FPS value can not reach the setting FPS value under high video parameters. (Camera performance limitation)
2. **Fine**
  - a. TCP-VM469Z42
    - i. The camera with higher quality and resolution is unable to achieve 30 or 25fps. (camera performance limitation)

- ii. The live view will delay if using TCP or UDP to connect the camera. (camera firmware issue)
- 3. **Samsung**
  - a. SNB-5004
    - i. The camera with highest quality and resolution is unable to achieve 30 fps if the format is MJPEG. (Camera performance limitation)
- 4. **Vivotek**
  - a. FD816B-HF2
    - i. Audio does not supported with format MJPEG. (Camera firmware issue)
    - ii. Camera with higher resolution like 1920x1080 or 1080x720 is unable to achieve expected fps value. (camera performance limitation)
    - iii. The camera with format H.264 is unable to achieve expected bitrate vlaue.(camera performance limitation)

## **Bug Fixed:**

### **[MainConsole]**

- 1. Fixed following issue for DCS-7513
  - a. HTTP Protocol Connection can be used under IP+ and NAS.
  - b. We check our product's aduio in/out as same as on camera web.
  - c. DI/DO can normally work under IP+ and NAS platform.
- 2. Fixed that can not connect using AUD header under HTTP protocol with H.264.
- 3. Fixed that audio codec synchronize with RTSP description.
- 4. Fixed that DCS-5000L enable flip.

### **[MainConsole/NVRMini2/NVRsolo/Titan NVR/NUUO Crystal™]**

- 1. Rename for Hikvision's Generic
  - a. Generic is for general camera.
  - b. Generic server is for video server.

## Release Version v5.0 (2016/9/9)

### Modules:

<b>Device Pack</b>	<b>v 5.0</b>
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### Supported Systems:

Mainconsole	v 4.1.12 and above*
NVRmini 2	v 2.1.0 and above**
NVRsolo	v 1.1.1 and above**
Titan NVR	v 1.6.2 and above
NUUO Crystal™	v 2.0.3 and above

### Note:

\*For Mainconsole multi stream and setting function, please upgrade to Mainconsole v5.0.0 and above first.

\*\*For NVRmini 2 and NVRsolo multi stream setting function, please upgrade to NVRmini 2/NVRsolo v2.0.0 and above first.

\*\*\* For Mainconsole H.265, please upgrade to Mainconsole v6.0 and above first.

**If camera is added or upgraded firmware after v4.0, it will support multistream setting.**

### New Camera Supported:

<b>Bolide</b>	BN7029, BN7035, BN7036
<b>Canon</b>	VB-H43, VB-M640V
<b>D-Link</b>	DCS-4622
<b>Fine</b>	CDB-5KM551, CDB-MV1080F-H, CDV-5KM501, CDV-5KM501Z35, TCP-KM559, TCP-KM559Z35, SP-HP2530AR-IP
<b>Guardeon</b>	GDN-MD2000V
<b>Samsung</b>	SNB-7004
<b>Zavio</b>	B6330, B6530, D6330, D6530, F7220, F7320, F7520

### FW upgrade:

<b>Axis</b>	M5014, P5635-E
<b>Fine</b>	CDB-HD280, CDB-HFD828, CDV-3F828, CDV-3VM800Z42, CDV-3VM800-H, CDV-3VM800-H1, TCP-2200AM-H, TCP-2800AM, TCP-B365K, TCP-BF1080, TCP-BF208, TCP-BF828IR, TCP-HDVB180, TCP-HDVB800Z42, TCP-HDVB800-H, TCP-HDVB800-H1, TCP-HP1080-H, TCP-IRH5080-50, TCP-IRH5080-70, TCP-M360K



## Notice:

1. Axis
  - a. M5014
    - i. Camera via H.264 is unable to achieve setting bit rate. (Camera performance issue)
    - ii. PTZ speed is ineffective. (Camera firmware issue)
  - b. P5635-E
    - i. Camera via H.264 is unable to achieve setting bit rate. (Camera performance issue)
  
2. Bolide
  - a. BN7029
    - i. Auto-Detect model fail due to incorrect model name response. (Camera firmware issue)
    - ii. Due to Onvif restriction, format H.265 cannot be set. (NUUO server limitation)
    - iii. Due to Onvif restriction, format MJPEG shows up on format list which does not support by camera. (Camera firmware issue)
    - iv. Due to Onvif restriction, audio in/out cannot work properly. (Camera firmware issue)
    - v. PTZ malfunction because we failed to get right PTZ configuration. (Camera firmware issue)
    - vi. Unable to test DI/DO sufficiently because hardware limitation.
  - b. BN7035
    - i. Auto-Detect model fail due to incorrect model name response. (Camera firmware issue)
    - ii. Due to Onvif restriction, format H.265 cannot be set. (NUUO server limitation)
    - iii. Due to Onvif restriction, format MJPEG shows up on format list which does not support by camera. (Camera firmware issue)
    - iv. Due to Onvif restriction, audio in/out cannot work properly. (Camera firmware issue)
    - v. PTZ malfunction because we failed to get right PTZ configuration. (Camera firmware issue)
    - vi. Unable to test DI/DO sufficiently because hardware limitation.
  - c. BN7036
    - i. Auto-Detect model fail due to incorrect model name response. (Camera firmware issue)
    - ii. Due to Onvif restriction, format H.265 cannot be set. (NUUO server limitation)

- iii. Due to Onvif restriction, format MJPEG shows up on format list which does not support by camera. (Camera firmware issue)
  - iv. Due to Onvif restriction, audio in/out cannot work properly. (Camera firmware issue)
  - v. PTZ malfunction because we failed to get right PTZ configuration. (Camera firmware issue)
  - vi. Unable to test DI/DO sufficiently because hardware limitation.
3. Canon
- a. VB-M640V
    - i. Camera setting will synchronize both on stream 2 and stream 3. (Camera firmware issue)
    - ii. Low/Min stream (stream 2 or stream 3) cannot connect randomly.(Camera firemware issue)
    - iii. Support focus in MainConsole.
    - iv. Brightness and saturation cannot be set. (Camera firmware Issue)
4. Dahua
- a. If general, motion, alarm stream settings is inconsistent, the connection will be unstable.
  - b. The connection is unstable, because of using ServerPush to get events.
5. Fine
- a. CDV-3VM800Z42
    - i. PTZ only support zoom & focus.
    - ii. Camera is unable to achieve setting frame rate. (Camera performance issue)
    - iii. Frame Rate can not sync with camera web. (Camera firmware issue)
  - b. CDV-5KM501Z35
    - i. PTZ only support zoom&focus.
    - ii. Camera via H.265 with the highest parameters can not normally view. (Camera performance limitation)
    - iii. Camera via H.265 with the highest parameters is unable to achieve setting frame rate. (Camera performance limitation)
    - iv. Live view will be delayed when camera via H.265 with the highest parameters. (Camera performance limitation)
    - v. Camera via MJPEG with the highest parameters is unable to achieve setting frame rate. (Camera performance limitation)

- vi. DO always open. (camera firmware issue)
- c. SP-HP2530AR-IP
  - i. Camera is unable achieve setting frame rate. (Camera performance limitation)
  - ii. The resolution of snapshot will not synchronize with camera web. (Camera firmware issue)
  - iii. Audio-in and audio-out works fail. (Camera firmware issue)
  - iv. Can not set the parameter of stream 3. (Camera firmware issue)
  - v. DI may works abnormally. (Camera firmware issue)
  - vi. Frame rate list would not synchronize with camera web. (Camera firmware issue)
  - vii. Stream 3 can not connect. (Camera firmware issue)
  - viii. Format list would not synchronize with camera web.(Camera firmware issue)
  - ix. Bitrate list would not synchronize with camera web.(Camera firmware issue)
  - x. Resolution list would not synchronize with camera web.(Camera firmware issue)
  - xi. Preset name can not use number. (Camera firmware issue)
  - xii. Focus works fail. (Camera firmware issue)
  - xiii. Audio has noise. (Camera firmware issue)
- 6. Guardeon
  - a. GDN-MD2000V
    - i. Camera via H.264 is unable to achieve setting bit rate and frame rate. (Camera performance issue)

## **Bug Fixed:**

### **[MainConsole]**

1. Fix that Axis 215 PTZ can not set format

## Release Version v4.16 (2016/8/12)

### Modules:

<b>Device Pack</b>	<b>v 4.16</b>
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### Supported Systems:

Mainconsole	v 4.1.12 and above*
NVRmini 2	v 2.1.0 and above**
NVRsolo	v 1.1.1 and above**
Titan NVR	v 1.6.2 and above
NUUO Crystal™	v 2.0.3 and above

### Note:

\*For Mainconsole multi stream and setting function, please upgrade to Mainconsole v5.0.0 and above first.

\*\*For NVRmini 2 and NVRsolo multi stream setting function, please upgrade to NVRmini 2/NVRsolo v2.0.0 and above first.

\*\*\* For Mainconsole H.265, please upgrade to Mainconsole v6.0 and above first.

**If camera is added or upgraded firmware after v4.0, it will support multistream setting.**

### New Camera Supported:

<b>Dahua</b>	IPC-HDBW5121E-Z, IPC-HDBW5220E-Z, IPC-HDBW5221E-Z, IPC-HDBW5421E-Z, IPC-HF5121E-Z, IPC-HF5221E, IPC-HF5421E, IPC-HFW5121E-Z, IPC-HFW5220E-Z, IPC-HFW5221E-Z
<b>Fine</b>	SP-HK3033Q-IP, SP-HK3036Q-IP, SP-HK3036R-AIP, SP-HK3036R-IP
<b>Forenix</b>	NPB-1080BLX, NPB-1080BMX, NPB-1080BMX-M, NPB-4065BM, NPD-1080CDX, NPD-4065CD, NPV-1080CDX, NPV-4065CD, NPX-1080DNX, NPX-4065DN, NSPD-2065-20X
<b>Hikvision</b>	DS-2CD2942F-IWS, DS-2CD2942F-I, DS-2CD6332FWD-I
<b>Santec</b>	SNC-431FEIF

### FW upgrade:

<b>Canon</b>	VB-S800D
<b>Dahua</b>	IPC-HFW5421E-Z
<b>D-Link</b>	DCS-2310L
<b>Forenix</b>	IPB-1080F, IPB-1080F28, IPD-1080KF, IPD-1080MF, IPM-1080F, IPM-1080RF, IPT-1080F, IPV-1080F
<b>Fine</b>	CDV-3VM800Z42

## Notice:

1. Axis
  - c. Generic
    - i. Camera via MJPEG is unable to achieve setting frame rate. (Camera performance issue)
2. Canon
  - d. VB-S800D
    - vii. Bitrate list won't synchronize with camera web. (Camera firmware limitation)
    - viii. Camera via MJPEG is unable to achieve setting frame rate. (Camera performance issue)
3. D-Link
  - b. DCS-2310L
    - v. Camera is unable to achieve setting bitrate (Camera performance issue)
    - vi. The camera with highest quality and resolution is unable to achieve 30 fps. (Camera performance issue)
4. Dahua
  - c. IPC-HFW5421E-Z
    - i. PTZ only support zoom & focus.
    - ii. Audio via G.711A is abnormal (Camera firmware issue)
    - iii. Audio via AAC has no voice. (NUUO server limitation)
5. Fine
  - d. CDV-3VM800Z42
    - iv. PTZ only support zoom & focus.
    - v. Camera is unable achieve setting frame rate (Camera performance issue)
  - e. SP-HK3036R-IP
    - vii. Focus works fail. (Camera firmware issue)
    - viii. DI and DO works abnormally. (Camera firmware issue)
    - ix. Sometimes won't show DI button. (Camera firmware issue)
    - x. Frame Rate, Resolution and Quality can not sync with camera web. (Camera firmware issue)
    - xi. The snapshot function works fail. (Camera firmware issue)
    - xii. Configuration of video parameter may not be available in the particular circumstance. (Camera firmware issue)
    - xiii. Talk function can not be used. (Camera firmware issue)

- xiv. Camera with highest quality and resolution is unable to achieve 25 fps. (Camera performance limitation)
  - xv. Audio function works abnormally under G.711, AAC, PCM. (NUUO server limitation)
6. Forenix
- b. NPB-1080BMX-M
    - ii. Frame rate list of stream 2 won't be affected by resolution of stream 1. (Camera firmware limitation)
    - iii. Camera via MJPEG is unable to achieve setting frame rate. (Camera performance issue)
    - iv. Audio-out stutter with G.711 and G.726. (camera performance limitation)
  - b. NPV-4065CD
    - i. Frame rate list of stream 2 won't be affected by resolution of stream 1. (Camera firmware limitation)
  - c. NSPD-2065-20X
    - i. Auto Pan function not support in NAS. (NUUO server limitation)
    - ii. Frame rate list of stream 2 won't be affected by resolution of stream 1. (Camera firmware limitation)
    - iii. Image parameters works abnormally. (Camera firemwre issue)
7. Hikvision
- a. DS-2CD2942F-IWS
    - i. Bitrate List does not synchronize with camera web. (Camera firmware issue)
    - ii. Unable to achieve the highest bitrate value. (Camera performance limitation)
    - iii. Bitrate cannot not set up to 12288kbps (camera performance limitation)
    - iv. Camera via H.264 is unable to achieve setting frame rate. (Camera performance issue)
  - b. DS-2CD6332FWD-I
    - i. The actual resolution is 800\*608 but the setting list will show 800\*600 (Camera firmware issue)

## **Bug Fixed:**

**[NVRMini2/NVRsolo/Titan NVR/NUUO Crystal™]**

**[MainConsole]**

## Release Version v4.15 (2016/7/8)

### Modules:

<b>Device Pack</b>	<b>v 4.15</b>
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### Supported Systems:

Mainconsole	v 4.1.12 and above*
NVRmini 2	v 2.1.0 and above**
NVRsolo	v 1.1.1 and above**
Titan NVR	v 1.6.2 and above
NUUO Crystal™	v 2.0.3 and above

### Note:

\*For Mainconsole multi stream and setting function, please upgrade to Mainconsole v5.0.0 and above first.

\*\*For NVRmini 2 and NVRsolo multi stream setting function, please upgrade to NVRmini 2/NVRsolo v2.0.0 and above first.

\*\*\* For Mainconsole H.265, please upgrade to Mainconsole v6.0 and above first.

**If camera is added or upgraded firmware after v4.0, it will support multistream setting.**

### New Camera Supported:

<b>Axis</b>	M1125, M3044-V, M3045-V
<b>Bolide</b>	BN1008FE, BN1009/IRPTZ-2.0S, BN6009M2, BN6009M2WD, BN6035M2, BN6035M4
<b>D-Link</b>	DCS-4603, DCS-4703E, DCS-936L
<b>Pelco</b>	IBPS110-ER, IMPS110-1
<b>Santec</b>	SNC-431FBIF
<b>Sunell</b>	SN-IPS56/30CDR/ZS12

### Notice:

1. Axis
  - a. M1125
    - i. The actual resolution is 240\*136 but the setting list will show 240\*135 (Camera firmware issue)
    - ii. The camera with highest parameter via MJPEG is unable to achieve setting frame rate. (Camera performance issue)
  - b. M3044-V

- i. The camera with highest parameter via MJPEG is unable to achieve setting frame rate. (Camera performance issue)
  - c. M3045-V
    - i. The camera with highest parameter via MJPEG is unable to achieve setting frame rate. (Camera performance issue)
- 2. Bolide
  - a. BN1008FE
    - i. Frame rate list would not sync. with camera web, when format is H.264. (Camera firmware issue)
    - ii. DI works failed. (Camera firmware issue)
    - iii. Motion works failed. (Camera firmware issue)
    - iv. The camera with highest parameter via MJPEG is unable to achieve setting frame rate. (Camera performance issue)
  - b. BN1009/IRPTZ-2.0S
    - i. Audio codec did not support RAW\_PCM. (Onvif limitation)
    - ii. There has noise when audio codec set to G.711A. (NUUO limitation)
  - c. BN6009M2
    - i. When format set to H.264, resolution set to 1920x1080 and frame rate set to 1, camera can not connect. (Camera firmware issue)
    - ii. Bitrate rate list would not sync. with camera web. (Camera firmware issue)
    - iii. Camera is unable to achieve setting bitrate. (Camera performance issue)
  - d. BN6009M2WD
    - i. When resolution set to 1920x1080, camera can not connect. (Camera firmware issue)
    - ii. Audio codec did not support RAW\_PCM. (Onvif limitation)
    - iii. Camera is unable to achieve setting bitrate. (Camera performance issue)
  - e. BN6035M2
    - i. Talk works failed. (Camera firmware issue)
    - ii. Audio codec did not support RAW\_PCM. (Onvif limitation)
    - iii. There has noise when audio codec set to G.711A. (NUUO limitation)
    - iv. Bitrate rate list would not sync. with camera web. (Camera firmware issue)



- f. BN6035M4
  - i. Talk works failed. (Camera firmware issue)
  - ii. Audio codec did not support RAW\_PCM. (Onvif limitation)
  - iii. There has noise when audio codec set to G.711A. (NUUO limitation)
  - iv. Frame rate list would not sync. with camera web, when format is H.264. (Camera firmware issue)
  - v. Bitrate list would not sync. with camera web, when format is H.264. (Camera firmware issue)
- 3. D-Link
  - a. DCS-4603
    - i. The actual resolution is 896x720 but the setting list will show 900x720 (Camera firmware issue)
    - ii. The camera with highest parameter via H.264 is unable to achieve setting frame rate. (Camera performance issue)
    - iii. The camera with highest parameter via H.264 is unable to achieve setting bitrate. (Camera performance issue)
    - iv. The camera with highest parameter via MJPEG is unable to achieve setting frame rate. (Camera performance issue)
  - b. DCS-4703E
    - i. The actual resolution is 896x720 but the setting list will show 900x720 (Camera firmware issue)
    - ii. The camera with highest parameter via H.264 is unable to achieve setting frame rate. (Camera performance issue)
    - iii. The camera with highest parameter via H.264 is unable to achieve setting bitrate. (Camera performance issue)
    - iv. The camera with highest parameter via MJPEG is unable to achieve setting frame rate. (Camera performance issue)
  - c. DCS-936L
    - i. Audio may work abnormal. (NUUO limitation)
- 4. Pelco
  - a. IBPS110-ER
    - i. The resolution of stream 2 can not bigger than stream 1. (Camera limitation)
    - ii. The actual resolution is 320\*176 but the setting list will show 320\*176 (Camera firmware issue)
    - iii. Did not support image rotation. (Onvif limitation)
  - b. IMPS110-1
    - i. Did not support auto focus. (Onvif limitation)

- ii. The resolution of stream 2 can not bigger than stream 1. (Camera limitation)
- 5. Santec
  - a. SNC-431FBIF
    - i. The camera with highest parameter is unable to achieve setting frame rate. (Camera performance issue)
    - ii. The camera with highest parameter is unable to achieve setting bitrate. (Camera performance issue)
- 6. Sunell
  - a. SN-IPS56/30CDR/ZS12
    - i. Audio codec did not support RAW\_PCM. (Onvif limitation)
    - ii. There are noise, when audio codec set to G.711A. (NUUO limitation)
    - iii. The camera with highest parameter is unable to achieve setting bitrate. (Camera performance issue)

## **Bug Fixed:**

### **[NVRMini2/NVRsolo/Titan NVR/NUUO Crystal™]**

- 1. [Bosch] – Fix that onvif camera can not connect if rtsp uri no port field.

### **[MainConsole]**

- 2. [VisionHitech] – Fix that MainConsole will restart every 2 or 3 hours.

## Release Version v4.14 (2016/6/3)

### Modules:

<b>Device Pack</b>	<b>v 4.14</b>
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### Supported Systems:

Mainconsole	v 4.1.12 and above*
NVRmini 2	v 2.1.0 and above**
NVRsolo	v 1.1.1 and above**
Titan NVR	v 1.6.2 and above
NUUO Crystal™	v 2.0.3 and above

### Note:

\*For Mainconsole multi stream and setting function, please upgrade to Mainconsole v5.0.0 and above first.

\*\*For NVRmini 2 and NVRsolo multi stream setting function, please upgrade to NVRmini 2/NVRsolo v2.0.0 and above first.

\*\*\* For Mainconsole H.265, please upgrade to Mainconsole v6.0 and above first.

**If camera is added or upgraded firmware after v4.0, it will support multistream setting.**

### New Camera Supported:

<b>Axis</b>	P1365
<b>Dahua</b>	IPC-HDBW4421E, IPC-HDBW4421F-AS, IPC-HDW4421E
<b>Hikvision</b>	DS-2CD2432F-IW, DS-2CD2642FWD-IZS, DS-2CD40C5F-AP, DS-2DE7176-A, DS-2DE7176-D, DS-2DF6236V-AEL
<b>Panasonic</b>	WV-SFV781L, WV-SPN531, WV-SPW611L

### FW upgrade:

<b>Axis</b>	P1405-LE
<b>D-Link</b>	DCS-930LB1, DCS-932LB1
<b>Hikvision</b>	DS-2CD4565F-IZH
<b>Panasonic</b>	WV-SFV611L, WV-SFV631L, WV-SFV631LT, WV-SPN631, WV-SPW631L
<b>Samsung</b>	SNB-5000
<b>Sunell</b>	SN-IPC54/12DN

## Notice:

1. Axis
  - a. P1365
    - i. Can not access PTZ and I/O.
    - ii. Audio out via AAC failed when format is MJPEG. (Camera firmware issue)
  - b. P1405-LE
    - i. PTZ only support zoom and focus. (Camera limitation)
2. Hikvision
  - a. DS-2CD2432F-IW
    - i. Bitrate list can not sync with camera web. (Camera firmware issue)
    - ii. Not support Flip/Mirror. (NUUO server limitation)
  - b. DS-2CD2642FWD-IZS
    - i. Bitrate list can not sync with camera web. (Camera firmware issue)
    - ii. Camera with lowest parameter is unable to achieve maximum bitrate. (Camera performance limitation)
    - iii. Bitrate will be higher than the setting value via HTTP. (Camera performance limitation)
    - iv. PTZ only support zoom and focus. (Camera limitation)
  - c. DS-2CD40C5F-AP
    - i. Bitrate list can not sync with camera web. (Camera firmware issue)
    - ii. Bitrate in stream 2 is higher than the setting value. (Camera performance limitation)
    - iii. Snapshot resolution default is 704\*576. (Camera limitation)
  - d. DS-2CD4565F-IZH
    - i. Bitrate list can not sync with camera web. (Camera firmware issue)
    - ii. Not support Flip/Mirror. (NUUO server limitation)
    - iii. PTZ only support zoom and focus. (Camera limitation)
    - iv. Snapshot resolution default is 704\*576. (Camera limitation)
  - e. DS-2DE7176-D
    - i. Bitrate list can not sync with camera web. (Camera firmware issue)
    - ii. Not support Flip/Mirror. (NUUO server limitation)
  - f. DS-2DF6236V-AEL
    - i. Bitrate list can not sync with camera web. (Camera firmware issue)
    - ii. Not support Flip/Mirror. (NUUO server limitation)
3. Panasonic
  - a. WV-SPN631
    - i. RTSP Port can not change. (Camera firmware issue)

- ii. Bitrate list can not sync with camera web. (Camera firmware issue)
  - iii. Can not support that resolution is 3m model. (Camera firmware issue)
  - iv. Resolution list can not sync with camera web. (Camera firmware issue)
  - v. Audio-out works fail. (Camera firmware issue)
  - vi. The resolution of snapshot will not sync with settings. (Camera firmware issue)
4. Samsung
- a. SNB-5000
    - i. Camera is unable achieve over 22 fps when the resolution is 1280x1024 and the format is H.264. (Camera performance limitation)
    - ii. When format is MJPEG, the bitrate list can not sync with camera web. (Camera firmware issue)
    - iii. Frame rate list can not sync with camera web. (Camera firmware issue)
    - iv. Can not enable talk function. (Camera firmware issue)
5. Sunell
- a. SN-IPC54/12DN
    - i. Bitrate list can not sync with camera web. (Camera firmware issue)
    - ii. We don't support audio-in via PCM. (NUUO server limitation)
    - iii. Audio-out can not normally work under UDP protocol. (Camera firmware issue)
    - iv. Does not support mirror. (Onvif limitation)

## **Bug Fixed:**

### **[NVRMini2/NVRsolo/Titan NVR/NUUO Crystal™]**

1. [Forenix] – Fix that model IPB-1080EL detecting error.

### **[MainConsole]**

1. [Fine] – Fix MainConsole restart when camera connection abnormal.

## Release Version v4.13 (2016/5/6)

### Modules:

<b>Device Pack</b>	<b>v 4.13</b>
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### Supported Systems:

Mainconsole	v 4.1.12 and above*
NVRmini 2	v 2.1.0 and above**
NVRsolo	v 1.1.1 and above**
Titan NVR	v 1.6.2 and above
NUUO Crystal™	v 2.0.3 and above

### Note:

\*For Mainconsole multi stream and setting function, please upgrade to Mainconsole v5.0.0 and above first.

\*\*For NVRmini 2 and NVRsolo multi stream setting function, please upgrade to NVRmini 2/NVRsolo v2.0.0 and above first.

\*\*\* For Mainconsole H.265, please upgrade to Mainconsole v6.0 and above first.

**If camera is added or upgraded firmware after v4.0, it will support multistream setting.**

### New Camera Supported:

<b>Dahua</b>	Generic
<b>D-Link</b>	DCS-2630L, DCS-5029L, DCS-5030L, DCS-960L
<b>Fine</b>	CDV-DT910IR, TCP-VM2818, TCP-VM2833
<b>Forenix</b>	IPB-1080EL
<b>Hikvision</b>	DS-2CD2142FWD-IWS, DS-2CD2342WD-I, DS-2CD2342WD-I

### FW upgrade:

<b>Champ</b>	BL7302, BL7305, DM5105, DM5113, DM7302, DM7305, FE5403, FE5405
<b>Forenix</b>	IPB-1080E, IPB-1080F, IPD-1080E, IPD-1080KF, IPD-1080MF, IPM-1080F, IPM-1080RF, IPT-1080F, IPV-1080E, IPV-1080F, IPX-1080E
<b>Hikvision</b>	DS-2CD4132FWD-IZ
<b>IPCam</b>	NBL7302, NBL7305, NDM7302, NDM7305, NFE5403, NFE5405
<b>Zavio</b>	B8220, B8520, D4320, D6520, D8220, D8520, P4320, P4520

## Feature added:

### [MainConsole]

1. [Dahua] – Generic Support

## Notice:

1. CHAMP
  - a. BL7302
    - i. Camera can not achieve the setting FPS. (Camera Firmware Issue)
    - ii. Quality can not be set to Detailed or Excellent when format is MJPEG. (Camera firmware issue)
  - b. BL7305
    - i. Bitrate list can not sync with camera's web. (Camera Firmware Issue)
  - c. FE5405
    - i. Bitrate list can not sync with camera's web. (Camera Firmware Issue)
2. Dahua
  - a. Generic
    - i. Firmware must be 2.210.0006.0.T.A.2017, build: 2016-03-24 or above then can use generic model.
      - (1) The range of parameter on camera will change by other parameter, our parameter dialog can't synchornize with camera. (Camera Firmware issue)
      - (2) There are two ptz cgis for zoom and focuss functions, we only support ones, so zoom and focus maybe can not work. (Camera Firmware issue)
      - (3) Filp can not work. (Camera Firmware issue)
      - (4) Image Parameters can not normally set. (Camera Firmware issue)
      - (5) Audio G.711A (16k), G.711Mu (16k) and AAC (8k and 16k) can not used. (NUUO server limitation)
      - (6) PTZ can not normally use speed feature, Zoom, Focus, and AutoPan functions. (Camera Firmware issue)
      - (7) DO can not normally work. (Camera Firmware issue)
      - (8) DI/DO support quantity is based on camera specification. (Camera specification difference)
    - ii. Firmware must be 2.210.BW03.0.T.A.2017.3N.NR, build: 2015-11-06 or above then can use generic model.
      - (1) The range of parameter on camera will change by other parameter, our parameter dialog can't synchornize with camera. (Camera firmware issue)

- (2) The bitrate's range maybe is out of web's bitrate range. (Camera firmware issue)
    - (3) Zoom and Focus function maybe can not work. (Camera firmware issue)
    - (4) Filp can not work. (Camera firmware issue)
    - (5) Image Parameters can not normally set. (Camera firmware issue)
    - (6) Audio G.711A (16k) and G.711Mu (16k) can not used. (NUUO Server Limitation)
    - (7) PTZ speed features can set, but they can not affect PTZ speed. (Camera firmware issue)
    - (8) AutoDect function can not work. (Camera firmware issue)
    - (9) DO can not normally work. (Camera firmware issue)
    - (10) DI/DO support quantity is based on camera specification. (Camera specification difference)
  - iii. Firmware must be 2.400.0000.23.R, build: 2015-12-15 or above then can use generic model.
    - (1) The range of parameter on camera will change by other parameter, our parameter dialog can't synchronise with camera. (Camera firmware issue)
    - (2) There are two ptz cgis for zoom and focus functions, we only support ones, so zoom and focus maybe can not work. (Camera firmware issue)
    - (3) Filp can not work. (Camera firmware issue)
    - (4) Image Parameters can not normally set. (Camera firmware issue)
    - (5) Audio G.711A (16k), G.711Mu (16k) and AAC (8k and 16k) can not used. (NUUO Server Limitation)
    - (6) PTZ only support Zoom, Focus, and AutoFocus.
    - (7) DO can not normally work. (Camera firmware issue)
    - (8) DI/DO support quantity is based on camera specification. (Camera specification difference)
- 3. D-Link
  - a. DCS-2630
    - i. Stream2's frame rate list can not sync with camera web. (Camera Firmware issue)
    - ii. Audio codec can not sync with camera web that cause no sound. (Camera Firmware issue)
  - b. DCS-960L
    - i. Audio codec can not sync with camera web that cause noise. (Camera Firmware issue)
- 4. Fine
  - a. CDV-DT910IR



- i. Camera with highest resolution (3648x2736) is unable to achieve the expected fps when the format is MPEG. (Camera Firmware issue)
- 5. Forenix
  - a. IPD-1080MF
  - b. ISPD-2065-20X
    - i. The list of resolution is not synchronized with camera web. (Camera Firmware issue)
    - ii. Stream2's frame rate list can not sync with camera web when resolution of stream1 and stream2 are selected 1920x1080. (Camera Firmware issue)
    - iii. Camera with lowest resolution and FPS is unable to achieve the expected bitrate. (Camera Firmware issue)
    - iv. Image Parameters can not normally set. (Camera Firmware issue)
- 6. Hikvision
  - a. DS-2CD2142FWD-IWS
    - i. Not support Flip/Mirror. (NUUO server limitation)
    - ii. Bitrate list can not sync with camera web. (Camera Firmware issue)
    - iii. When motion is triggered, image will be broken. (Camera performance limitation)
  - b. DS-2CD4332FWD-PTZ
    - i. Bitrate list can not sync with camera web. (Camera Firmware issue)
    - ii. Due to NUUO restriction, flip/mirror cannot be set. (NUUO server limitation)
- 7. Zavio
  - a. B8220
    - i. Camera can not achieve the setting FPS. (Camera Firmware Issue)
    - ii. Quality can not be set to Detailed or Excellent when format is MJPEG. (Camera firmware issue)
  - b. B8520
    - i. Bitrate list can not sync with camera's web. (Camera Firmware Issue)
  - c. P4520
    - i. Bitrate list can not sync with camera's web. (Camera Firmware Issue)

## **Bug Fixed:**

### **[NVRMini2/NVRsolo/Titan NVR/NUUO Crystal™]**

1. [Axis] – ACAP motion improvement.
2. [D-Link] – Fix setting parameters problem to DCS-3710.

### **[MainConsole]**

1. [Hikvision] – Fix showing preset point list.

## Release Version v4.12 (2016/4/11)

### Modules:

**Device Pack**                      **v 4.12**

### Supported Systems:

Mainconsole	v 4.1.12 and above*
NVRmini 2	v 2.1.0 and above**
NVRsolo	v 1.1.1 and above**
Titan NVR	v 1.6.2 and above
NUUO Crystal™	v 2.0.3 and above

### Note:

\*For Mainconsole multi stream and setting function, please upgrade to Mainconsole v5.0.0 and above first.

\*\*For NVRmini 2 and NVRsolo multi stream setting function, please upgrade to NVRmini 2/NVRsolo v2.0.0 and above first.

\*\*\* For Mainconsole H.265, please upgrade to Mainconsole v6.0 and above first.

**If camera is added or upgraded firmware after v4.0, it will support multistream setting.**

### New Camera Supported:

<b>Dahua</b>	IPC-EBW81200 (Fisheye camera), IPC-EBW8600 (Fisheye camera), IPC-HFW1220S, IPC-HFW5421E-Z, Generic
<b>D-Link</b>	DCS-5000L
<b>Fine</b>	CDB-3VM835, CDB-4KU852, CDV-3VM835, CDV-4KU801, SP-HP2030SR-IP, SP-HP2040SR-IP, TCP-4KU808, TCP-HDVB835
<b>Hikvision</b>	DS-2CD4125FWD-IZ
<b>Santec</b>	SNC-211FDIA, SNC-431RBIA, SNC-431RDIA, SNC-431RLNN
<b>Sunell</b>	IPR54/14ALDN(II)/23, IPR56/20APDN/13
<b>Vivotek</b>	SD9364-EHL
<b>Zavio</b>	B6220, D6220, N36220, N76220, P5210

### FW upgrade:

<b>Champ</b>	BL5105
<b>Fine</b>	CDV-VM2008T, TCP-VM2210, TCP-VM2008T
<b>Sony</b>	SNC-HM662 (Fisheye camera)
<b>Zavio</b>	B6520, N36210

## Feature added:

### [NVRMini2/NVRsolo/Titan NVR/NUUO Crystal™]

2. [Dahua] – Generic Support

## Notice:

1. Dahua
  - a. IPC-EBW81200
    - i. Server does not support G.726 and AAC. (NUUO server limitation)
    - ii. The list of frame rate is not synchronized with the one on the camera web. (Camera Firmware issue)
  - b. IPC-EBW8600
    - i. Server does not support G.726 and AAC. (NUUO server limitation)
  - c. IPC-HFW1220S
    - i. The list of frame rate is not synchronized with the one on the camera web. (Camera Firmware issue)
  - d. IPC-HFW5421E-Z
    - i. Server does not support G.726 and AAC. (NUUO server limitation)
    - ii. Image rotation may not synchronize with camera web. (Camera Firmware issue)
  - e. Generic
    - i. Firmware must be 2.400.0000.23.R, build: 2015-12-15 or above then can use generic model.
      - (1) Server dose not support G.726, AAC, and G.711A with 16k. (NUUO server limitation)
      - (2) Stream parameter setting may fail if the ranges of bitrate are not synchronized with the camera web. (Camera Firmware issue)
      - (3) The list of frame rate is not synchronized with the one on the camera web. (Camera Firmware issue)
      - (4) PTZ only supports zoom, focus, and autofocus.
    - ii. Firmware must be 2.210.BW03.0.T.A.2017.3N.NR, build: 2015-11-06 or above then can use generic model.
      - (1) Server dose not support G.726, AAC, and G.711A with 16k. (NUUO server limitation)
      - (2) Zoom, focus, and gotoPreset work abnormally. (Camera Firmware issue)
      - (3) Stream parameter setting may fail if the ranges of bitrate are not synchronized with the camera web. (Camera Firmware issue)

(4) The list of frame rate is not synchronized with the one on the camera web. (Camera Firmware issue)

## 2. Fine

### a. CDV-VM2008T

i. Not support G.726 with 8K Hz and 16 bits per sample and AMR codec. (NUUO server limitation)

### b. SP-HP2030SR-IP

i. Audio via G.711 is abnormal. (Camera Firmware issue)

ii. Bit rate list and frame rate list do not synchronize with camera web. (Camera Firmware issue)

iii. Camera with highest quality and resolution is unable to achieve settings' frame rate. (Camera performance limitation)

iv. Not support TALK. (Camera Firmware issue)

v. If video format is changed from camera web, video should be manually reconnected on server to avoid video showed black screen. (Camera Firmware issue)

vi. Auto focus and focus near/far are not supported on linux-based NVR. (NUUO server limitation)

vii. Snapshot will get the error image. (Camera Firmware issue)

viii. If preset name include number and the number smaller than 0 or bigger than 255, it will set failed. (Camera Firmware issue)

### c. TCP-4KU808

i. Camera can not achieve setting frame rate when resolution is 3840x2160. (Camera performance limitation)

### d. TCP-HDVB835

i. Can not set resolution to 480x360. (Camera Firmware issue)

ii. If audio codec is changed from camera web, video should be manually reconnected on server to avoid abnormal audio. (Camera Firmware issue)

iii. Camera can not achieve setting frame rate when video format is MJPEG. (Camera performance limitation)

### e. TCP-VM2008T

i. Not support G.726 with 8K Hz and 16 bits per sample and AMR codec. (NUUO server limitation)

### f. TCP-VM2210

i. Not support talk function due to camera not support two-way audio via onvif protocol.(Camera Firmware issue)

- ii. Camera with highest resolution via MJPEG or MPEG4 is unable to achieve maximum frame rate. (Camera performance limitation)
  - iii. Bit rate list does not synchronize with camera web. (Camera Firmware issue)
  - iv. The image of stream 2 from camera is broken. (Camera Firmware issue)
3. Sony
- a. SNC-HM662
    - i. Camera is unable to achieve setting frame rate and bit rate. (Camera performance limitation)
    - ii. Doesn't support audio-in and audio-out when the resolution is 2560x1920 via MJPEG. (Camera Firmware issue)
    - iii. When switching the audio codec on camera webpage, the camera won't disconnect automatically. It will cause abnormal sound. (Camera Firmware issue)
4. Sunell
- a. IPR54/14ALDN(II)/23
    - i. Auto Detection will fail because it is out of the searching time. If the searching file rotate and start with onvif, the auto-detection is functional and can work properly. (NUUO server limitation)
  - b. IPR56/20APDN/13
    - i. Auto Detection will fail because it is out of the searching time. If the searching file rotate and start with onvif, the auto-detection is functional and can work properly. (NUUO server limitation)
5. Vivotek
- a. SD9364-EHL
    - i. Camera can not achieve the settings of frame rate or bitrate. (Camera Firmware issue)
6. Zavio
- a. B6220
    - i. Camera can not achieve the setting bit rate. (Camera Firmware issue)
    - ii. Volume of camera audio-in is low. (Camera Firmware issue)
  - b. P5210
    - i. Camera can not achieve the setting bit rate. (Camera Firmware issue)

## **Bug Fixed:**

### **[MainConsole]**

1. [Forenix] – Modify IPX-1080F28 default protocol to TCP.

### **[NVRMini2/NVRsolo/Titan NVR/NUUO Crystal™]**

2. [Forenix] – Modify IPX-1080F28 default protocol to TCP.

## Release Version v4.11 (2016/3/11)

### Modules:

<b>Device Pack</b>	<b>v 4.11</b>
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### Supported Systems:

Mainconsole	v 4.1.12 and above*
NVRmini 2	v 2.1.0 and above**
NVRsolo	v 1.1.1 and above**
Titan NVR	v 1.6.2 and above
NUUO Crystal™	v 2.0.3 and above

### Note:

\*For Mainconsole multi stream and setting function, please upgrade to Mainconsole v5.0.0 and above first.

\*\*For NVRmini 2 and NVRsolo multi stream setting function, please upgrade to NVRmini 2/NVRsolo v2.0.0 and above first.

\*\*\* For Mainconsole H.265, please upgrade to Mainconsole v6.0 and above first.

**If camera is added or upgraded firmware after v4.0, it will support multistream setting.**

### New Camera Supported:

<b>ACTi</b>	B95
<b>Dahua</b>	IPC-HF81200E
<b>Hikvision</b>	DS-2CD4124F-IZ, DS-2CD4224F-IZH, DS-2CD4A25FWD-IZHS, DS-6716HWI
<b>Pelco</b>	IBPS110-ER, IMPS110-1
<b>Samsung</b>	SNO-7084R
<b>Santec</b>	SNC-231RZNA

### FW upgrade:

<b>D-Link</b>	DCS-4701E
<b>Fine</b>	CDB-4KM552, CDV-4KM502, TCP-KM465, TCP-KZ462
<b>Forenix</b>	IPB-1080F28, IPB-8000BM, IPD-8000CD, IPV-8000CD, IPX-8000DN
<b>Hikvision</b>	DS-2CD4625FWD-IZS
<b>Mobotix</b>	M15D-Sec

### Dual Stream Format Support MJPEG Models:

<b>D-Link</b>	DCS-4701E
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## Feature added:

### [MainConsole/NVRMini2/NVRsolo/Titan NVR/NUUO Crystal™]

1. [Axis] – ACAP motion 2 and 3.  
If there are motion applications in camera, we will use the ACAP motion.
2. [Onvif] – Event type swith.

## Notice:

1. ACTi
  - a. B95
    - i. Camera cannot achieve maximum FPS with high resolution and bitrate. (Camera performance limitation)
    - ii. Audio has noise. (Camera performance limitation)
2. Dahua
  - a. IPC-HF81200E
    - i. The bitrate of stream 1 in camera with highest resolution via MJPEG is higher than settings bitrate. (Camera performance limitation)
    - ii. Audio codec via G.726 and AAC can not be used. (NUUO server limitation)
    - iii. The list of Frame Rate is not synchronized with the one on camera web. (Camera Firmware issue)
3. D-Link
  - a. DCS-4701E
    - i. Stream 1 with MJPEG, resolution 1280\*720 can not achieve maximum FPS. (Camera Firmware issue)
4. Fine
  - a. TCP-KM465
    - i. Motion Detection can not trigger. (Camera Firmware issue)
5. Forenix
  - a. IPB-1080F28
    - i. Streaming can not connect via RTSP over HTTP. (Camera firmware issue)
    - ii. The second stream's frame rate list can not follow the adjusting rule to the main stream's resolution and FPS. (Camera firmware limitation)
    - iii. Camera is unable to achieve maximum FPS. (Camera performance issue)
  - b. IPB-8000BM
    - i. Camera cannot achieve maximum FPS with high resolution and bitrate. (Camera performance limitation)
    - ii. Audio has noise. (Camera Firmware issue)



## 6. Hikvision

- a. DS-2CD4224F-IZH
  - i. Bitrate list can not synchronized with camera web. (Camera Firmware issue)
  - ii. The stream 2 or 3 in camera with higher resolution via MJPEG is unable to achieve settings fps. (Camera performance limitation)
  - iii. The bitrate of stream 2 or 3 in camera with highest resolution via MJPEG is higher than settings bitrate. (Camera performance limitation)
- b. DS-2CD4625FWD-IZS
  - i. Bitrate list can not sync with web. (Camera Firmware issue)
- c. DS-2CD4A25FWD-IZS
  - i. Bitrate list can not sync with web. (Camera Firmware issue)
  - ii. Bitrate is unable to achieve setting value. (Camera performance limitation)
- d. DS-6716HWI
  - i. Can't get snapshot. (NUUO server limitation)

## 7. Mobotix

- a. M15D-Sec
  - i. Does not support rotate. (NUUO server limitation)
  - ii. The camera with higher quality and resolution is unable to achieve the fps which users set for all streams. (Camera Firmware issue)
  - iii. The 2nd and 3rd stream resolution will depends on 1st stream resolution setting. For example, if users set the resolution of 1st stream to 2048\*1536(the ratio of height and width is 4:3) and 2nd stream resolution is 1920\*1080, the 2nd stream resolution will become 1440\*1080(4:3) instead of 1920\*1080(16:9). (Camera performance limitation)

## 8. Pelco

- a. IBPS110-ER
  - i. Talk can't be used. (Camera Firmware issue)
  - ii. Due to onvif restriction, some bitrate and quality cannot be set. (Camera Firmware issue)
- b. IMPS110-1
  - i. Due to onvif restriction, some bitrate and quality cannot be set. (Camera Firmware issue)
  - ii. Talk can't be used. (Camera Firmware issue)

## 9. Samsung

- a. SNO-7084R
  - i. There is dual streaming rule problem in NAS's AUTO mode. (NUUO server limitation) Ex: stream 2 only supports MJPEG codec and stream 3 supports H.264 and MJPEG codec, but the program's logic is 3 stealing 2 in this situation.
  - ii. The actual FPS is not enough to the setting value. (Camera firmware issue)
  - iii. We can not connect by TCP or UDP. (Camera firmware issue)

- iv. After the stream 2 and 3 are set the resolution to 320x180, the actual resolution is 320x176.  
(Camera firmware issue)
- v. The camera only supports Zoom, Focus, AutoFocus with PTZ.

## **Bug Fixed:**

### **[MainConsole]**

- 1. [Axis] – Fixed video lagging when higher bitrate.
- 2. [D-Link] – Fixed DCS-7110B1 and DCS-3715 brightness default value.
- 3. [Flir] – Fixed the event can not triggerd via onvif.

### **[NVRMini2/NVRsolo/Titan NVR/NUUO Crystal™]**

- 1. [Axis] – Fixed video lagging when higher bitrate.
- 2. [Flir] – Fixed the event can not triggerd via onvif.
- 3. [Zavio] - Fixed Zavio B8220 prest setting failed issue.

## Release Version v4.10 (2016/2/5)

### Modules:

Device Pack v 4.10

### Supported Systems:

Mainconsole	v 4.1.12 and above*
NVRmini 2	v 2.1.0 and above**
NVRsolo	v 1.1.1 and above**
Titan NVR	v 1.6.2 and above
NUUO Crystal™	v 2.0.3 and above

### New Camera Supported:

<b>Forenix</b>	IPB-8000BM, IPD-8000CD, IPV-8000CD, IPX-8000DN
<b>Hikvision</b>	DS-2CD4A25FWD-IZ, DS-2DE7174-AE, DS-2DE7184-A
<b>PrismaBytes</b>	PBY-H626A, PBY-H7926A, PBY-H7926AM, PBY-H7982, PBY-H7982M, PBY-H79882, PBY-H7A26A, PBY-H7A82, PBY-H7A855, PBY-H7B82, PBY-H7B82M, PBY-H7B882, PBY-HB26A, PBY-HB855, PBY-HC26A, PBY-HC855, PBY-HD26A, PBY-HD855, PBY-HH26A, PBY-HH855, PBY-Hi26A, PBY-Hi26AM, PBY-Hi82, PBY-Hi82M, PBY-Hi882, PBY-HK26A, PBY-HK855, PBY-HL26A, PBY-HL26AM, PBY-HL82, PBY-HL882, PBY-HMi855, PBY-HNi855, PBY-HP82, PBY-HQ26A, PBY-HQ855, PBY-HS26A, PBY-HS855, PBY-HV26A
<b>Provision</b>	DAI-310IPEH04(NVR, Crystal), DAI-310IPEHVF(NVR, Crystal), DI-310IPEFVF(NVR, Crystal), I3-310IPEH04(NVR, Crystal), I4-310IPEHVF(NVR, Crystal)
<b>Santec</b>	SNC-100PBIA, SNC-200PDIA
<b>Vivotek</b>	MS-8391-EV
<b>Yudor</b>	YUC-H626A, YUC-H7926A, YUC-H7926AM, YUC-H7982, YUC-H7982M, YUC-H79882, YUC-H7A855, YUC-H7B82, YUC-H7B82M, YUC-H7B882, YUC-HB26A, YUC-HB855, YUC-HC26A, YUC-HC855, YUC-HD26A, YUC-HD855, YUC-HH26A, YUC-HH855, YUC-Hi26A, YUC-Hi26AM, YUC-Hi82, YUC-Hi82M, YUC-Hi882, YUC-HK26A, YUC-HK855,

YUC-HL26A, YUC-HL26AM, YUC-HL82, YUC-HL882,  
YUC-HMi855, YUC-HNi855, YUC-HP82, YUC-HQ26A, YUC-HQ855,  
YUC-HS26A, YUC-HS855, YUC-HV26A

## FW upgrade:

<b>CHAMP</b>	BL3102, BL5103, BL5105, BL5302, DM3102, DM3112, DM5103
<b>D-link</b>	DCS-2103(NVR, Crystal), DCS-6116, DCS-6510
<b>Forenix</b>	IPB-4065BM, IPD-4065CD, IPV-4065CD, IPX-4065DN
<b>IPCam</b>	NBL3102, NDM3102, NDM5103, NBL5103, NDM3112, NBL5302
<b>OEM</b>	N36210, N36320, N36520, N38210, N74211, N76210, N76320, 76520
<b>Zavio</b>	B5210, B6210, B6320, B6520, B8210, D4211, D6320, D6520

## Multiple Stream Setting Supported:

<b>CHAMP</b>	BL3102, BL5103, BL5105, BL5302, DM3102, DM3112, DM5103
<b>D-link</b>	DCS-2103(NVR, Crystal), DCS-6116, DCS-6510
<b>Forenix</b>	IPB-4065BM, IPB-8000BM, IPD-4065CD, IPD-8000CD, IPV-4065CD, IPV-8000CD, IPX-4065DN, IPX-8000DN
<b>Hikvision</b>	DS-2CD4A25FWD-IZ, DS-2DE7174-AE, DS-2DE7184-A
<b>IPCam</b>	
<b>OEM</b>	N36210, N36320, N36520, N38210, N74211, N76210, N76320, 76520
<b>PrismaBytes</b>	PBY-H626A, PBY-H7926A, PBY-H7926AM, PBY-H7982, PBY-H7982M, PBY-H79882, PBY-H7A26A, PBY-H7A82, PBY-H7A855, PBY-H7B82, PBY-H7B82M, PBY-H7B882, PBY-HB26A, PBY-HB855, PBY-HC26A, PBY-HC855, PBY-HD26A, PBY-HD855, PBY-HH26A, PBY-HH855, PBY-Hi26A, PBY-Hi26AM, PBY-Hi82, PBY-Hi82M, PBY-Hi882, PBY-HK26A, PBY-HK855, PBY-HL26A, PBY-HL26AM, PBY-HL82, PBY-HL882, PBY-HMi855, PBY-HNi855, PBY-HP82, PBY-HQ26A, PBY-HQ855, PBY-HS26A, PBY-HS855, PBY-HV26A
<b>Provision</b>	DAI-310IPEH04(NVR, Crystal), DAI-310IPEHVF(NVR, Crystal), DI-310IPEFVF(NVR, Crystal), I3-310IPEH04(NVR, Crystal), I4-310IPEHVF(NVR, Crystal)
<b>Santec</b>	SNC-100PBIA, SNC-200PDIA
<b>Vivotek</b>	MS-8391-EV
<b>Yudor</b>	YUC-H626A, YUC-H7926A, YUC-H7926AM, YUC-H7982, YUC-H7982M, YUC-H79882, YUC-H7A855, YUC-H7B82, YUC-H7B82M, YUC-H7B882, YUC-HB26A, YUC-HB855, YUC-HC26A, YUC-HC855, YUC-HD26A,

**Zavio** YUC-HD855, YUC-HH26A, YUC-HH855, YUC-Hi26A, YUC-Hi26AM, YUC-Hi82, YUC-Hi82M, YUC-Hi882, YUC-HK26A, YUC-HK855, YUC-HL26A, YUC-HL26AM, YUC-HL82, YUC-HL882, YUC-HMi855, YUC-HNi855, YUC-HP82, YUC-HQ26A, YUC-HQ855, YUC-HS26A, YUC-HS855, YUC-HV26A  
B5210, B6210, B6320, B6520, B8210, D4211, D6320, D6520

## Dual Stream Format Support MJPEG Models:

**D-link** DCS-2103(NVR, Crystal), DCS-6116, DCS-6510

## Notice:

### 1. CHAMP

- a. BL3102
  - i. Framerate is unable to achieve setting value in MJPEG 1920x1080. (Camera performance limitation)
- b. BL5103
  - i. Display mosaic happen in 2304x1296 MJPEG. (Camera performance limitation)
  - ii. Quality list can not synchronize with web. (Camera Firmware issue)
  - iii. Bitrate list can not synchronize with web in MJPEG. (Camera Firmware issue)
- c. BL5105
  - i. Camera web does not have WDR setting. (Camera Firmware issue)
  - ii. Quality list can not synchronize with web. (Camera Firmware issue)
- d. BL5302
  - i. Framerate is unable to achieve to setting value in 1920x1080. (Camera performance limitation)
- e. DM3102
  - i. Framerate is unable to achieve setting value in MJPEG 1920x1080. (Camera performance limitation)
- f. DM3112
  - i. Framerate is unable to achieve to 30fps in 1920x1080. (Camera performance limitation)
- g. DM5103
  - i. Display mosaic happen in 2304x1296 MJPEG. (Camera performance limitation)
  - ii. Quality list can not synchronize with web. (Camera Firmware issue)
  - iii. Bitrate list can not synchronize with web in MJPEG. (Camera Firmware issue)

2. D-link
  - a. DCS-2103
    - i. Camera cannot achieve maximum fps. (Camera performnace limitation)
  - b. DCS-6116
    - i. When snapshot from camera, it will return a JPEG image with resolution 640x360(aspect ratio 16:9), or 640x480(aspect ratio 4:3). (Camera limitaion)
    - ii. Frame rate lists are not synchronize with camera web on 50Hz. (Camera Firmware Issue)
    - iii. Camera setting of speaker and mic switch doesn't synchronize with camera web. The status of speaker and mic are in contrast. (Camera Firmware Issue)
    - iv. Talk function with Alaw codec cannot work. (Camera Firmware Issue)
  - c. DCS-6510
    - i. When snapshot from camera, it will return a JPEG image with resolution 640x360(aspect ratio 16:9), or 640x480(aspect ratio 4:3). (Camera limitaion)
    - ii. Audio and I/O can not test without connector.
3. Forenix
  - a. IPB-4065BM
    - i. Due to camera web restriction, some frame rate cannot be set. (Camera Firmware issue)
  - b. IPB-8000BM
    - i. Stream profile 2 cannot switch Format. (Camera Firmware issue)
    - ii. The list of Bitrate is not synchronized with the one on camera web. (Camera Firmware issue)
    - iii. The list of Format is not synchronized with the one on camera web. (Camera Firmware issue)
4. Hikvision
  - a. DS-2CD4A25FWD-IZ
    - i. Bitrate lists can not synchronize with web. (Camera Firmware Issue)
  - b. DS-2DE7184-A
    - i. Auto focus can't be used. (NUUO server limitation)
    - ii. Audio codec via AAC can't be used. (NUUO server limitation)
5. IPCam
  - a. NBL3102
    - i. Framerate is unable to achieve setting value in MJPEG 1920x1080. (Camera performance limitation)
  - b. NDM3102

- i. Framerate is unable to achieve setting value in MJPEG 1920x1080. (Camera performance limitation)
    - c. NDM5103
      - i. Display mosaic happen in 2304x1296 MJPEG. (Camera performance limitation)
      - ii. Quality list can not synchronize with web. (Camera Firmware issue)
      - iii. Bitrate list can not synchronize with web in MJPEG. (Camera Firmware issue)
    - d. NBL5103
      - i. Display mosaic happen in 2304x1296 MJPEG. (Camera performance limitation)
      - ii. Quality list can not synchronize with web. (Camera Firmware issue)
      - iii. Bitrate list can not synchronize with web in MJPEG. (Camera Firmware issue)
    - e. NDM3112
      - i. Framerate is unable to achieve to 30fps in 1920x1080. (Camera performance limitation)
    - f. NBL5302
      - i. Framerate is unable to achieve to setting value in 1920x1080. (Camera performance limitation)
- 6. PrismaBytes
  - a. PBY-H626A
    - i. Stream2 cannot achieve maimum FPS with connecting two streams simultaneously. (Camera performance limitation)
    - ii. Audio codec only can choose G711. (Camera Firmware issue)
    - iii. Upnp will find wrong model. (Camera Firmware issue)
  - b. PBY-H7926A
    - i. Stream2 cannot achieve maimum FPS with connecting two streams simultaneously. (Camera performance limitation)
    - ii. Audio codec only can choose G711. (Camera Firmware issue)
    - iii. Upnp will find wrong model. (Camera Firmware issue)
  - c. PBY-H7926AM
    - i. Stream2 cannot achieve maimum FPS with connecting two streams simultaneously. (Camera performance limitation)
    - ii. Audio codec only can choose G711. (Camera Firmware issue)
    - iii. Upnp will find wrong model. (Camera Firmware issue)
  - d. PBY-H7982
    - i. Camera cannot achieve maximum FPS with MJPEG and high resolution. (Camera performance limitation)

- ii. Stream 1 cannot achieve maximum FPS when stream 2 connect with MJPEG and high resolution in the same time. (Camera performance limitation)
      - iii. Resolution list and bitrate list does not synchronize with web. (Camera Firmware issue)
      - iv. Audio has noise. (Camera Firmware issue)
    - e. PBY-H7982M
      - i. Camera cannot achieve maximum FPS with MJPEG and high resolution. (Camera performance limitation)
      - ii. Stream 1 cannot achieve maximum FPS when stream 2 connect with MJPEG and high resolution in the same time. (Camera performance limitation)
      - iii. Resolution list and bitrate list does not synchronize with web. (Camera Firmware issue)
      - iv. Audio has noise. (Camera Firmware issue)
    - f. PBY-H79882
      - i. Camera cannot achieve maximum FPS with MJPEG and high resolution. (Camera performance limitation)
      - ii. Stream 1 cannot achieve maximum FPS when stream 2 connect with MJPEG and high resolution in the same time. (Camera performance limitation)
      - iii. Resolution list and bitrate list does not synchronize with web. (Camera Firmware issue)
      - iv. Audio has noise. (Camera Firmware issue)
    - g. PBY-H7A26A
      - i. Stream2 cannot achieve maimum FPS with connecting two streams simultaneously. (Camera performance limitation)
      - ii. Audio codec only can choose G711. (Camera Firmware issue)
      - iii. Upnp will find wrong model. (Camera Firmware issue)
    - h. PBY-H7A82
      - i. Camera cannot achieve maximum FPS with MJPEG and high resolution. (Camera performance limitation)
      - ii. Stream 1 cannot achieve maximum FPS when stream 2 connect with MJPEG and high resolution in the same time. (Camera performance limitation)
      - iii. Resolution list and bitrate list does not synchronize with web. (Camera Firmware issue)
      - iv. Audio has noise. (Camera Firmware issue)
    - i. PBY-H7A855
      - i. Stream2 cannot achieve maimum FPS with connecting two streams simultaneously. (Camera performance limitation)



- ii. Audio codec only can choose G711. (Camera Firmware issue)
  - iii. Upnp will find wrong model. (Camera Firmware issue)
- j. PBY-H7B82
  - i. Camera cannot achieve maximum FPS with MJPEG and high resolution. (Camera performance limitation)
  - ii. Stream 1 cannot achieve maximum FPS when stream 2 connect with MJPEG and high resolution in the same time. (Camera performance limitation)
  - iii. Resolution list and bitrate list does not synchronize with web. (Camera Firmware issue)
  - iv. Audio has noise. (Camera Firmware issue)
- k. PBY-H7B82M
  - i. Camera cannot achieve maximum FPS with MJPEG and high resolution. (Camera performance limitation)
  - ii. Stream 1 cannot achieve maximum FPS when stream 2 connect with MJPEG and high resolution in the same time. (Camera performance limitation)
  - iii. Resolution list and bitrate list does not synchronize with web. (Camera Firmware issue)
  - iv. Audio has noise. (Camera Firmware issue)
- l. PBY-H7B882
  - i. Camera cannot achieve maximum FPS with MJPEG and high resolution. (Camera performance limitation)
  - ii. Stream 1 cannot achieve maximum FPS when stream 2 connect with MJPEG and high resolution in the same time. (Camera performance limitation)
  - iii. Resolution list and bitrate list does not synchronize with web. (Camera Firmware issue)
  - iv. Audio has noise. (Camera Firmware issue)
- m. PBY-HB26A
  - i. Stream2 cannot achieve maimum FPS with connecting two streams simultaneously. (Camera performance limitation)
  - ii. Audio codec only can choose G711. (Camera Firmware issue)
  - iii. Upnp will find wrong model. (Camera Firmware issue)
- n. PBY-HB855
  - i. Stream2 cannot achieve maimum FPS with connecting two streams simultaneously. (Camera performance limitation)
  - ii. Audio codec only can choose G711. (Camera Firmware issue)
  - iii. Upnp will find wrong model. (Camera Firmware issue)
- o. PBY-HC26A

- i. Stream2 cannot achieve maimum FPS with connecting two streams simultaneously. (Camera performance limitation)
  - ii. Audio codec only can choose G711. (Camera Firmware issue)
  - iii. Upnp will find wrong model. (Camera Firmware issue)
- p. PBY-HC855
  - i. Stream2 cannot achieve maimum FPS with connecting two streams simultaneously. (Camera performance limitation)
  - ii. Audio codec only can choose G711. (Camera Firmware issue)
  - iii. Upnp will find wrong model. (Camera Firmware issue)
- q. PBY-HD26A
  - i. Stream2 cannot achieve maimum FPS with connecting two streams simultaneously. (Camera performance limitation)
  - ii. Audio codec only can choose G711. (Camera Firmware issue)
  - iii. Upnp will find wrong model. (Camera Firmware issue)
- r. PBY-HD855
  - i. Stream2 cannot achieve maimum FPS with connecting two streams simultaneously. (Camera performance limitation)
  - ii. Audio codec only can choose G711. (Camera Firmware issue)
  - iii. Upnp will find wrong model. (Camera Firmware issue)
- s. PBY-HH26A
  - i. Stream2 cannot achieve maimum FPS with connecting two streams simultaneously. (Camera performance limitation)
  - ii. Audio codec only can choose G711. (Camera Firmware issue)
  - iii. Upnp will find wrong model. (Camera Firmware issue)
- t. PBY-HH855
  - i. Stream2 cannot achieve maimum FPS with connecting two streams simultaneously. (Camera performance limitation)
  - ii. Audio codec only can choose G711. (Camera Firmware issue)
  - iii. Upnp will find wrong model. (Camera Firmware issue)
- u. PBY-Hi26A
  - i. Stream2 cannot achieve maimum FPS with connecting two streams simultaneously. (Camera performance limitation)
  - ii. Audio codec only can choose G711. (Camera Firmware issue)
  - iii. Upnp will find wrong model. (Camera Firmware issue)
- v. PBY-Hi26AM
  - i. Stream2 cannot achieve maimum FPS with connecting two streams simultaneously. (Camera performance limitation)

- ii. Audio codec only can choose G711. (Camera Firmware issue)
  - iii. Upnp will find wrong model. (Camera Firmware issue)
- w. PBY-Hi82
  - i. Camera cannot achieve maximum FPS with MJPEG and high resolution. (Camera performance limitation)
  - ii. Stream 1 cannot achieve maximum FPS when stream 2 connect with MJPEG and high resolution in the same time. (Camera performance limitation)
  - iii. Resolution list and bitrate list does not synchronize with web. (Camera Firmware issue)
  - iv. Audio has noise. (Camera Firmware issue)
- x. PBY-Hi82M
  - i. Camera cannot achieve maximum FPS with MJPEG and high resolution. (Camera performance limitation)
  - ii. Stream 1 cannot achieve maximum FPS when stream 2 connect with MJPEG and high resolution in the same time. (Camera performance limitation)
  - iii. Resolution list and bitrate list does not synchronize with web. (Camera Firmware issue)
  - iv. Audio has noise. (Camera Firmware issue)
- y. PBY-Hi882
  - i. Camera cannot achieve maximum FPS with MJPEG and high resolution. (Camera performance limitation)
  - ii. Stream 1 cannot achieve maximum FPS when stream 2 connect with MJPEG and high resolution in the same time. (Camera performance limitation)
  - iii. Resolution list and bitrate list does not synchronize with web. (Camera Firmware issue)
  - iv. Audio has noise. (Camera Firmware issue)
- z. PBY-HK26A
  - i. Stream2 cannot achieve maimum FPS with connecting two streams simultaneously. (Camera performance limitation)
  - ii. Audio codec only can choose G711. (Camera Firmware issue)
  - iii. Upnp will find wrong model. (Camera Firmware issue)
- aa. PBY-HK855
  - i. Stream2 cannot achieve maimum FPS with connecting two streams simultaneously. (Camera performance limitation)
  - ii. Audio codec only can choose G711. (Camera Firmware issue)
  - iii. Upnp will find wrong model. (Camera Firmware issue)
- bb. PBY-HL26A

- i. Stream2 cannot achieve maximum FPS with connecting two streams simultaneously. (Camera performance limitation)
  - ii. Audio codec only can choose G711. (Camera Firmware issue)
  - iii. Upnp will find wrong model. (Camera Firmware issue)
- cc. PBY-HL26AM
  - i. Stream2 cannot achieve maximum FPS with connecting two streams simultaneously. (Camera performance limitation)
  - ii. Audio codec only can choose G711. (Camera Firmware issue)
  - iii. Upnp will find wrong model. (Camera Firmware issue)
- dd. PBY-HL82
  - i. Camera cannot achieve maximum FPS with MJPEG and high resolution. (Camera performance limitation)
  - ii. Stream 1 cannot achieve maximum FPS when stream 2 connect with MJPEG and high resolution in the same time. (Camera performance limitation)
  - iii. Resolution list and bitrate list does not synchronize with web. (Camera Firmware issue)
  - iv. Audio has noise. (Camera Firmware issue)
- ee. PBY-HL882
  - i. Camera cannot achieve maximum FPS with MJPEG and high resolution. (Camera performance limitation)
  - ii. Stream 1 cannot achieve maximum FPS when stream 2 connect with MJPEG and high resolution in the same time. (Camera performance limitation)
  - iii. Resolution list and bitrate list does not synchronize with web. (Camera Firmware issue)
  - iv. Audio has noise. (Camera Firmware issue)
- ff. PBY-HMi855
  - i. Stream2 cannot achieve maximum FPS with connecting two streams simultaneously. (Camera performance limitation)
  - ii. Audio codec only can choose G711. (Camera Firmware issue)
  - iii. Upnp will find wrong model. (Camera Firmware issue)
- gg. PBY-HNi855
  - i. Stream2 cannot achieve maximum FPS with connecting two streams simultaneously. (Camera performance limitation)
  - ii. Audio codec only can choose G711. (Camera Firmware issue)
  - iii. Upnp will find wrong model. (Camera Firmware issue)
- hh. PBY-HP82

- i. Camera cannot achieve maximum FPS with MJPEG and high resolution. (Camera performance limitation)
    - ii. Stream 1 cannot achieve maximum FPS when stream 2 connect with MJPEG and high resolution in the same time. (Camera performance limitation)
    - iii. Resolution list and bitrate list does not synchronize with web. (Camera Firmware issue)
    - iv. Audio has noise. (Camera Firmware issue)
  - ii. PBY-HQ26A
    - i. Stream2 cannot achieve maimum FPS with connecting two streams simultaneously. (Camera performance limitation)
    - ii. Audio codec only can choose G711. (Camera Firmware issue)
    - iii. Upnp will find wrong model. (Camera Firmware issue)
  - jj. PBY-HQ855
    - i. Stream2 cannot achieve maimum FPS with connecting two streams simultaneously. (Camera performance limitation)
    - ii. Audio codec only can choose G711. (Camera Firmware issue)
    - iii. Upnp will find wrong model. (Camera Firmware issue)
  - kk. PBY-HS26A
    - i. Stream2 cannot achieve maimum FPS with connecting two streams simultaneously. (Camera performance limitation)
    - ii. Audio codec only can choose G711. (Camera Firmware issue)
    - iii. Upnp will find wrong model. (Camera Firmware issue)
  - ll. PBY-HS855
    - i. Stream2 cannot achieve maimum FPS with connecting two streams simultaneously. (Camera performance limitation)
    - ii. Audio codec only can choose G711. (Camera Firmware issue)
    - iii. Upnp will find wrong model. (Camera Firmware issue)
  - mm. PBY-HV26A
    - i. Stream2 cannot achieve maimum FPS with connecting two streams simultaneously. (Camera performance limitation)
    - ii. Audio codec only can choose G711. (Camera Firmware issue)
    - iii. Upnp will find wrong model. (Camera Firmware issue)
- 7. Provision
  - a. DAI-310IPEH04
    - i. Auto detect fail. (Camera Firmware issue)
    - ii. Can not change CBR/VBR. (Camera Firmware issue)
    - iii. Bitrate & firmware list can not synchronize with web. (Camera Firmware issue)

- iv. Stream2's resolution list can not synchronize with web in MJPEG. (Camera Firmware issue)
- v. Quality name can not synchronize with web. (Camera Firmware issue)
- vi. Auto detect & upnp search can not be used. (Camera Firmware issue)

## 8. Santec

### a. SNC-100PBIA

- i. Video parameter only works on normal profile due to camera response without profile information from cgi. (Camera Firmware issue)
- ii. UPnP search can not be used. (Camera Firmware issue)
- iii. Stream parameter setting may fail if the range of bitrate is not synchronized with the camera web. (Camera Firmware issue)
- iv. Can not support H.264H and H.264B for format. (NUUO server limitation)
- v. G.711mu 8k has noise. (Camera Firmware issue)
- vi. G.711mu 16k and AAC can not be used. (NUUO server limitation)

### b. SNC-200PDIA

- i. Image rotation may not synchronize with web. (Camera Firmware Issue)
- ii. When motion trigger or in low-light situation will disconnect. (Camera performance limitation)
- iii. Upnp search can not be used. (Camera Firmware Issue)
- iv. Framerate & Bitrate list can not synchronize with web. (Camera Firmware Issue)

## 9. Vivotek

### a. MS-8391-EV

- i. Framerate lists can not synchronize with web in resolution 768x144 & 7552x1416. (Camera Firmware Issue)
- ii. Brightness & Contrast range can not synchronize with web. (Camera Firmware Issue)
- iii. Camera is unable to achieve maximum FPS in maximum parameter. (Camera performance limitation)

## 10. Zavio

### a. B5210

- i. Resolution list can not synchronize with web in MPEG4. (Camera Firmware issue)

### b. B6210

- i. Framerate is unable to achieve setting value in MJPEG 1920x1080. (Camera performance limitation)

- c. B6320
  - i. Display mosaic happen in 2304x1296 MJPEG. (Camera performance limitation)
  - ii. Quality list can not synchronize with web. (Camera Firmware issue)
  - iii. Bitrate list can not synchronize with web in MJPEG. (Camera Firmware issue)
- d. B6520
  - i. Camera web does not have WDR setting. (Camera Firmware issue)
  - ii. Quality list can not synchronize with web. (Camera Firmware issue)
- e. B8210
  - i. Framerate is unable to achieve to setting value in 1920x1080. (Camera performance limitation)
- f. D4211
  - i. Framerate is unable to achieve to 30fps in 1920x1080. (Camera performance limitation)
- g. D6210
  - i. Framerate is unable to achieve setting value in MJPEG 1920x1080. (Camera performance limitation)
- h. D6320
  - i. Display mosaic happen in 2304x1296 MJPEG. (Camera performance limitation)
  - ii. Quality list can not synchronize with web. (Camera Firmware issue)
  - iii. Bitrate list can not synchronize with web in MJPEG. (Camera Firmware issue)

## Bug Fixed:

### [MainConsole]

1. [D-Link] - Fix D-ViewCam can't hear sound from the camera. (FAE [#2669](#))
2. [Sunell] - Fix MainConsole crash due to memory leak. (FAE [#2672](#))

## Release Version v4.9 (2016/1/15)

### Modules:

Device Pack v 4.9

### Supported Systems:

Mainconsole v 4.1.12 and above\*  
NVRmini 2 v 2.1.0 and above\*\*  
NVRsolo v 1.1.1 and above\*\*  
Titan NVR v 1.6.2 and above  
NUUO Crystal™ v 2.0.3 and above

### New Camera Supported:

**ACTi** B210(NVR, Crystal), B410(NVR, Crystal), B51(NVR, Crystal), D22FA(NVR, Crystal), E210(NVR, Crystal), E22FA(NVR, Crystal), E38(NVR, Crystal), E416(NVR, Crystal), E618(NVR, Crystal), E73A(NVR, Crystal), E816(NVR, Crystal), Q110(NVR, Crystal), Q112(NVR, Crystal), Q115(NVR, Crystal), Q19(NVR, Crystal)

**Axis** F41, F44, P3224, P3224-LV, M3037, V5915

**Brickcom** OB-E200Nf (NVR, Crystal)

**CHAMP** BL5105, DM5115

**Forenix** IPB-4065BM (NVR, Crystal), IPD-4065CD(NVR, Crystal), IPV-4065CD(NVR, Crystal), IPX-4065DN(NVR, Crystal)

**Fuho** VIT-DA651E (MainConsole)

**OEM** N36520, N74520, N76520

**Vivotek** FE8180, FE8391

**Zavio** B6520, D4520, D6520

### FW upgrade:

**Forenix** IPB-1080F28  
**Zavio** B5111

### Multiple Stream Setting Supported:

**ACTi** B210(NVR, Crystal), B410(NVR, Crystal), B51(NVR, Crystal), D22FA(NVR, Crystal), E210(NVR, Crystal), E22FA(NVR, Crystal), E38(NVR, Crystal), E416(NVR, Crystal), E618(NVR, Crystal),



	E73A(NVR, Crystal), E816(NVR, Crystal), Q110(NVR, Crystal), Q112(NVR, Crystal), Q115(NVR, Crystal), Q19(NVR, Crystal)
<b>Axis</b>	F41, F44, P3224, P3224-LV, M3037, V5915
<b>Brickcom</b>	OB-E200Nf(NVR, Crystal)
<b>CHAMP</b>	BL5105, DM5115
<b>D-link</b>	DCS-2332L
<b>Forenix</b>	IPB-1080F28, IPB-4065BM(NVR, Crystal), IPD-4065CD(NVR, Crystal), IPV-4065CD(NVR, Crystal), IPX-4065DN(NVR, Crystal)
<b>Fuho</b>	VIT-DA651E (MainConsole)
<b>OEM</b>	N36520, N74520, N76520
<b>Vivotek</b>	FE8180, FE8391
<b>Zavio</b>	B5111, B6520, D4520, D6520

## Dual Stream Format Support MJPEG Models:

<b>D-link</b>	DCS-2332L
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## Notice:

1. ACTi
  - a. B210
    - i. Not support PTZ function. (Due to delivered model doesn't support RS-485, we didn't implement).
  - b. B51
    - i. Frame rate can not achieve to setting value with resolution above 800x600 in MJPEG. (Camera performance limitation)
    - ii. When motion is triggered, frame rate is not unstable with format MJPEG. (Camera performance limitation)
  - c. E38
    - i. Frame rate and bit rate can not achieve to setting value. (Camera performance limitation)
  - d. E416
    - i. Zoom speed doesn't work. (Camera performance limitation)
    - ii. Bit rate is insufficient with format H.264. (Camera performance limitation)
    - iii. PTZ only support zoom & focus.
  - e. E816
    - i. Bit rate can not achieve to setting value in H.264. (Camera performance limitation)

- ii. Sub stream bit rate cannot achieve to setting value. (Camera performance limitation)
    - iii. PTZ only support zoom & focus.
- 2. Axis
  - a. F41
    - i. Does not support ACAP Motion (MainConsole). (Old Motion Setting: <http://IP:PORT/operator/motionDetection.shtml?nbr=0&id=13> ) (NUUO server limitation)
  - b. F44
    - i. Frame rate list may not synchronize with web. (Camera Firmware issue)
    - ii. Does not support ACAP Motion (MainConsole). (Old Motion Setting: <http://IP:PORT/operator/motionDetection.shtml?nbr=0&id=13> ) (NUUO server limitation)
  - c. M3037
    - i. Frame rate cannot achieve to max fps. (Camera performance limitation)
    - ii. Cannot connect at Panorama Corner left, Panorama Corner right, Double Panorama Corner Modes. (Camera firmware issue)
  - d. V5915
    - i. Camera cannot achieve maximum FPS with high resolution and bitrate. (Camera performance limitation)
    - ii. Framerate list can not synchronize with web. (Camera Firmware issue)
- 3. D-Link
  - a. DCS-2332L
    - i. Fps can not achieve to setting value. (Camera performance limitation)
    - ii. Stream 3's settings would not syn. with camera web. (Camera firmware issue)
    - iii. Resolution list may not synchronize with web. (Camera firmware issue)
    - iv. Bitrate list may not synchronize with web. (Camera firmware issue)
- 4. Forenix
  - a. IPB-1080F28
    - i. Camera with MJPEG can not connect. (Camera Firmware issue)
  - b. IPB-4065BM
    - i. Motion Detection can't be used in H.265. (Camera firmware issue)
- 5. Fuho
  - a. VIT-DA651E
    - i. UPnP search fail. (Camera issue)
    - ii. MJPEG quality value will be changed if setting fail. (Camera issue)
    - iii. Some resolution combination setting was not supported. (Camera limitation)

- 6. Vivotek
  - a. FE8180
    - i. The list of camera Mount Type is not synchronized with the one on camera's web. (Camera Firmware issue)
    - ii. Frame rate can not achieve to setting value. (Camera performance limitation)
  - b. FE8391-V
    - i. Camera is unable to achieve maximum FPS and Bit rate. (Camera performance limitation)
    - ii. Talk has noise. (Camera performance limitation)
    - iii. The list of camera bit rate control is not synchronized with the one on camera's web. (Camera Firmware issue)
- 7. Zavio
  - a. B5111
    - i. Camera with format MJPEG MPEG4 and high resolution is unable to achieve 30 fps. (Camera performance limitation)
    - ii. Stream 2 & stream 3's resolution list can not synchronize with web. (Camera firmware issue)
  - b. D4520
    - i. Quality list can not synchronize with web in MJPEG with high resolution. (Camera firmware issue)
    - ii. Frame rate list can not synchronize with web. (Camera firmware issue)
    - iii. Bitrate is unable to achieve setting value in CBR mode. (Camera performance limitation)
    - iv. Frame rate is unable to achieve 30 fps in MJPEG with 1920x1080. (Camera performance limitation)
    - v. G.726 can not be used. (NUUO server limitation)

## Bug Fixed:

### [MainConsole]

1. [Hikvision] - Fix preset point get fail issue.

### [ALL NVR]

1. [Hikvision] - Fix can't get camera settings and support multi-stream setting on Generic Camera.
2. [D-Link] - Fix issue of DCS-3710 get the live video fail.

## Release Version v4.8 (2015/12/15)

### Modules:

Device Pack v 4.8

### Supported Systems:

Mainconsole	v 4.1.12 and above*
NVRmini 2	v 2.1.0 and above**
NVRsolo	v 1.1.1 and above**
Titan NVR	v 1.6.2 and above
NUUO Crystal™	v 2.0.3 and above

\*For Mainconsole multi stream and setting function, please upgrade to Mainconsole v5.0.0 and above first.

\*\*For NVRmini 2 and NVRsolo multi stream setting function, please upgrade to NVRmini 2/NVRsolo v2.0.0 and above first.

\*\*\* For Mainconsole H.265, please upgrade to Mainconsole v6.0 and above first.

### New Camera Supported:

<b>Axis</b>	P3225-LVE, P3225
<b>BOSCH</b>	NBN-71013-B(NVR, Crystal), VG5-7130-CPT4(NVR, Crystal) , VG5-7028-C1PC4(NVR, Crystal), VG5-7130-EPC4(NVR, Crystal)
<b>Fine</b>	CDV-4F936, TCP-BF428
<b>Forenix</b>	IPZB-1000R(NVR, Crystal), IPD-4065CD(Mainconsole), IPV-4065CD(Mainconsole), IPX-4065DN(Mainconsole)
<b>Hikvision</b>	DS-2CD4332FWD, DS-2CD4132FWD-IZ
<b>Samsung</b>	SNV-L6083R, SNO-L6013R, SND-L6013R
<b>Yudor</b>	YUC-H7A26A, YUC-H7A82
<b>Zavio</b>	D4320, N74320

### FW upgrade:

<b>D-Link</b>	DCS-3715(NVR, Crystal) , DCS-6517, DCS-2103B1
<b>Fine</b>	TCP-VM559G, TCP-KM465

## Multiple Stream Setting Supported:

<b>Axis</b>	P3225-LVE, P3225
<b>BOSCH</b>	NBN-71013-B(NVR, Crystal), VG5-7130-CPT4(NVR, Crystal), VG5-7028-C1PC4(NVR, Crystal), VG5-7130-EPC4(NVR, Crystal)
<b>D-Link</b>	DCS-2330L
<b>Fine</b>	CDV-4F936, TCP-VM559G, TCP-KM465, TCP-BF428
<b>Forenix</b>	IPZB-1000R(NVR, Crystal),IPD-4065CD(Mainconsole), IPV-4065CD(Mainconsole), IPX-4065DN(Mainconsole)
<b>Hikvision</b>	DS-2CD4332FWD, DS-2CD4132FWD-IZ
<b>Samsung</b>	SNV-L6083R, SNO-L6013R, SND-L6013R
<b>Yudor</b>	YUC-H7A26A, YUC-H7A82
<b>Zavio</b>	D4320, N74320

## Dual Stream Format Support MJPEG Models:

<b>D-Link</b>	DCS-7517, DCS-6517, DCS-3715
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## Notice:

1. BOSCH
  - a. NBN-71013-B
    - i. FPS can not achieve setting value. (Camera performance limitation)
  - b. VG5-7130-CPT4
    - i. Talk can't be used. (Camera Firmware issue)
    - ii. The motion event we got only support when VCA of camera webpage has been open. (Camera Firmware issue)
    - iii. Digital Output can be trigger by onvif command, but the status won't **changed** on hardware device. (Camera Firmware issue)
    - iv. There are same resolution in resolution list of Low & Min. (Camera Firmware issue)
    - v. The camera only can be connected under UDP when camera webpage has been open. (Camera Firmware issue)
2. D-link
  - a. DCS-7517
    - i. Audio out function could not work. (Camera Firmware issue)
    - ii. Audio in function only support G.711 codec. (Camera Firmware issue)
    - iii. OSD of live view is showed 960x536 when camera web is setting 960x540 resolution in MJPEG. (Camera Fireware issue)
    - iv. Zoom and focs functions does not support. (Camera Fireware issue)

- v. When DI trigger, DO status will be opposite status. (Camera Firmware issue)
    - vi. Motion detection(MD) function is out of work when MD has activated for a long time. (Camera Firmware issue)
  - b. DCS-2330L
    - i. Not support TCP/UDP protocols.
    - ii. Not support talk.
    - iii. The list of resolution is not synchronized with camera web. (Camera Firmware issue)
  - c. DCS-2132LB
    - i. Talk will work fail after user changes camera parameters. (Camera Firmware issue)
    - ii. Audio codec only support G711. (Camera Firmware issue)
    - iii. Motion detection randomly trigger failed. (Camera Firmware issue)
    - iv. Due to Resolution list does not synchronize with camera web, all stream will disconnect when the resolution has been set to out of resolution list boundary. (Camera Firmware issue)
- 3. Fine
  - a. TCP-VM559G
    - i. The camera with highest quality and MJPEG format is unable to use. (Camera performance limitation)
  - b. CDV-4F936
    - i. Camera with highest resolution and MJPEG format is unable to use. (Camera performance limitation)
- 4. Forenix
  - a. IPZB-1000R
    - i. Talk function can't be used. (Camera Firmware issue)
    - ii. DI can't be trigger. (Camera Firmware issue)
    - iii. Motion can't be trigger. (Camera Firmware issue)
    - iv. Frame rate, quality, and bitrate can't not synchronize with web. (Camera Firmware issue)
    - v. MJPEG quality can't be set. (Camera Firmware issue)
    - vi. Quality range can not synchronize with web. (Camera Firmware issue)
    - vii. Bitrate list can not synchronize with web. (Camera Firmware issue)
    - viii. In H.264 & MPEG-4, bitrate can not achieve setting value. (Camera performance limitation)
    - ix. In MJPEG & MPEG-4, framerate can not achieve setting value. (Camera performance limitation)

- b. IPB-4065BM
  - i. The camera with highest quality and MJPEG format is unable to achieve 30 fps. (Camera performance issue)
  - ii. Audio with G.726 has noise. (Camera performance issue)
- 5. Hikvision
  - a. DS-2CD4332FWD
    - i. Bitrate list is not synchronized with web. (Camera Firmware issue)
- 6. Samsung
  - a. SNV-L6083R
    - i. Frame rate list with stream 2 is not synchronized with web. (Camera Firmware issue)
- 7. Yudor
  - a. YUC-H7A26A
    - i. Stream2 cannot achieve maximum FPS with connecting two streams simultaneously. (Camera performance limitation)
    - ii. Audio codec only can choose G711. (Camera Firmware issue)
    - iii. Camera search will find wrong model. (Camera Firmware issue)
  - b. YUC-H7A82
    - i. Camera cannot achieve maximum FPS with MJPEG and high resolution. (Camera performance limitation)
    - ii. Stream 1 cannot achieve maximum FPS when stream 2 connect with MJPEG and high resolution in the same time. (Camera performance limitation)
    - iii. Resolution list and bitrate list does not synchronize with web. (Camera Firmware issue)
    - iv. Audio has noise. (Camera Firmware issue)
- 8. Zavio
  - a. D4320
    - i. Audio has noise. (Camera Firmware issue)
    - ii. Not support G.726. (NUUO server limitation)
    - iii. Quality list may not be synchronized with camera web. (Camera Firmware issue)

## Bug Fixed:

### [ALL NVR]

1. [Zavio] - Fix F1100 audio with no sound issue.

## Release Version v4.7 (2015/11/15)

### Modules:

Device Pack v 4.7

### Supported Systems:

Mainconsole	v 4.1.12 and above*
NVRmini 2	v 2.1.0 and above**
NVRsolo	v 1.1.1 and above**
Titan NVR	v 1.6.2 and above
NUUO Crystal™	v 2.0.3 and above

\*For Mainconsole multi stream and setting function, please upgrade to Mainconsole v5.0.0 and above first.

\*\*For NVRmini 2 and NVRsolo multi stream setting function, please upgrade to NVRmini 2/NVRsolo v2.0.0 and above first.

\*\*\* For Mainconsole H.265, please upgrade to Mainconsole v6.0 and above first.

### New Camera Supported:

<b>ACTi</b>	I96, E46A, E86A
<b>Axis</b>	2100(Mainconsole), 2401+(NVR, Crystal), P1214-E, Q1635, Q2901-E
<b>Basler</b>	BIP2-1600c-dn
<b>Brickcom</b>	OB-E200Nf, VD-E200Nf(Mainconsole)
<b>FINE</b>	CDB-5VM551G, CDV-5VM501G, SP-HP4833-IP, TCP-VM559G
<b>Forenix</b>	IPB-4065BM(Mainconsole)
<b>Mobotix</b>	D25(NVR, Crystal), p25(NVR, Crystal), Q25(NVR, Crystal)
<b>Samsung</b>	SNF-8010, SNO-L6083R

### FW upgrade:

<b>Champ</b>	BL7302, BL7305, DM7302, FE5403
<b>D-Link</b>	DCS-6315
<b>IPCam</b>	NBL7302, NBL7305, NDM7302, NFE5403
<b>OEM</b>	N38220, N38520, N78220, N24320
<b>Zavio</b>	B8220, B8520, D8220, P4320



## Multiple Stream Setting Supported:

<b>ACTi</b>	I96, E46A, E86A
<b>Axis</b>	P1214-E, Q1635, Q2901-E
<b>Basler</b>	BIP2-1600c-dn
<b>Brickcom</b>	OB-E200Nf, VD-E200Nf
<b>Champ</b>	FE5403
<b>D-Link</b>	DCS-2136L, DCS-3716, DCS-6115, DCS-6210, DCS-6315
<b>FINE</b>	CDB-5VM551G, CDV-5VM501G, SP-HP4833-IP, TCP-VM559G
<b>Forenix</b>	IPB-4065BM(Mainconsole)
<b>Mobotix</b>	D25(NVR, Crystal), p25(NVR, Crystal), Q25(NVR, Crystal)
<b>OEM</b>	N24320
<b>Samsung</b>	SNF-8010, SNO-L6083R
<b>Zavio</b>	P4320

## Support video stream only Model

<b>Axis</b>	2100, 2401+
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## Notice:

1. ACTi
  - a. E46A
    - i. In high resolution or high quality with MJPEG is unable to achieve framerate setting value and video will delay. (Camera performance limitation)
  - b. I96
    - i. In high resolution or high quality with MJPEG is unable to achieve framerate setting value and audio will stutter. (Camera performance limitation)
    - ii. I/O is not synchronized with camera web. (Camera Firmware issue)
2. Axis
  - a. Q1635
    - i. Camera cannot achieve maximum FPS with MJPEG and high resolution. (Camera performance limitation)
    - ii. Stream1 cannot achieve maximum FPS with connecting two streams simultaneously. (Camera performance limitation)
    - iii. PTZ only support focus.
3. Basler
  - a. BIP-1600c-dn
    - i. RTSP port cannot be changed. (Camera firmware issue)

- ii. The 3<sup>rd</sup> port of Digital I/O doesn't work. (Camera firmware issue)
- 4. Brickcom
  - a. OB-E200Nf
    - i. Camera is unable to achieve 30 fps. (Camera performance limitation)
    - ii. Video parameter doesn't synchronize with camera web. (Camera firmware issue)
    - iii. UPnP search doesn't work. (Camera firmware issue)
- 5. D-link
  - a. DCS-3716
    - i. The quality setting of MJPEG is unavailable. (Camera firmware issue)
    - ii. The main stream of resolution and frame rate list are different with camera web in MPEG4. (Camera firmware issue)
    - iii. The camera with highest resolution is unable to achieve the setting framerate. (Camera performance limitation)
    - iv. The frame rate list is different with camera web when resolution set to 2048x1536. (Camera firmware issue)
    - v. The 2nd stream with any resolution is unable to achieve the setting bitrate in MPEG4. (Camera performance limitation)
    - vi. Talk function has stutter. (Camera firmware issue)
    - vii. Configure all stream to highest quality and resolution with any format, each stream FPS will insufficient. (Camera performance limitation)
    - viii. Bit rate can not achieve web setting. (Camera performance limitation)
  - b. DCS-6115
    - i. In highest parameter setting with MJPEG are unable to achieve sufficient FPS. (Camera performance limitation)
    - ii. Multi-Stream Settings in auto mode bitrate will too high. (Camera firmware issue)
  - c. DCS-6210
    - i. Flip and Mirror of CGI are contrary the camera web. (Camera firmware issue)
    - ii. When move the camera, the camera is easily disconnected. (Camera performance limitation)
    - iii. Audio has noise by using internal microphone. (Camera performance limitation)
    - iv. In MJPEG, the live view displays different from camera setting in some special resolution. (Camera firmware issue)
    - v. Each stream with any format with highest parameter setting are unable to achieve sufficient FPS. (Camera performance limitation)

- vi. The camera with highest setting is unable to achieve sufficient FPS in MJPEG. (Camera performance limitation)
  - vii. The CGI's framerate and bitrate list is not same as camera web in the different resolution. (Camera firmware issue)
  - viii. Camera is unable to achieve sufficient FPS with over 4M bitrate. (Camera firmware issue)
  - ix. In MPEG4 and MJPEG, the resolution list isn't the same as camera web. (Camera firmware issue)
  - x. When the format changes to MPEG4 which previous format is H.264 or MJPEG and 176x144 resolution, the display will mosaic. (Camera performance limitation)
6. FINE
- a. TCP-VM559G
    - i. Stream 2's bitrate list doesn't synchronize with web. (Camera firmware issue)
    - ii. G.726 can not be used. (Camera firmware issue)
    - iii. The camera with highest resolution is unable to achieve frame rate value which has been set. (Camera performance limitation)
  - b. SP-HP4833-IP
    - i. The camera with resolution 1920x1080 is unable to achieve 30 fps. (Camera performance limitation)
7. Forenix
- a. IPB-4065BM
    - i. The camera with highest quality and MJPEG format is unable to achieve 30 fps. (Camera performance issue)
8. Samsung
- a. SNO-L6083R
    - i. Frame rate list does not synchronize with web. (Camera Firmware issue)
  - b. SNF-8010
    - i. The frame rate list of camera's stream 2 and stream 3 is not synchronized with the one on camera's web. (Camera Firmware issue)
    - ii. To get OSD correct value need to reconnect by manual to connect the correct stream after parameters setting. (Camera Firmware issue)
9. Zavio
- a. P4320
    - i. Frame rate is unable to achieve setting value in H.265. (Camera performance limitation)
    - ii. Quality list may not synchronize with web. (Camera firmware issue)

- iii. Audio in G.726 can not we used. (NUUO server limitation)

## **Bug Fixed:**

### **[MainConsole]**

1. [DynaColor] - Fix camera connects fail issue.
2. [Dahua] - Fix Mainconsole crashed issue while starting MainConsole.
3. [Onvif Camera] - Fix Camera get camera setting failed issue.

### **[ALL NVR]**

1. [Hunt] - Fix camera connects fail issue.
2. [DynaColor] - Fix camera connects fail issue.
3. [ALL Brand] - Fix log size overload and server abonormal.
4. [FINE] - Fix camera audio without voice issue.

## Release Version v4.6 (2015/10/15)

### Modules:

Device Pack v 4.6

### Supported Systems:

Mainconsole	v 4.1.12 and above*
NVRmini 2	v 2.1.0 and above**
NVRsolo	v 1.1.1 and above**
Titan NVR	v 1.6.2 and above
NUUO Crystal™	v 2.0.3 and above

\*For Mainconsole multi stream and setting function, please upgrade to Mainconsole v5.0.0 and above first.

\*\*For NVRmini 2 and NVRsolo multi stream setting function, please upgrade to NVRmini 2/NVRsolo v2.0.0 and above first.

\*\*\* For Mainconsole H.265, please upgrade to Mainconsole v6.0 and above first.

### New Camera Supported:

<b>Axis</b>	P1425-E, P1427-LE, P5514, Q3505-V
<b>Capture</b>	DCS20HDIR3V(Mainconsole), DCS30HDIR30(Mainconsole)
<b>Champ</b>	FE5405
<b>Fine</b>	CDB-HFD828W, TCP-VM2210
<b>Hikvision</b>	DS-2CD2032-I, DS-2CD4065F-P
<b>Mobotix</b>	C25(NVR, Crystal)
<b>OEM</b>	N24520, N78520
<b>Samsung</b>	SND-7084(NVR, Crystal), SND-7084R(NVR, Crystal), SNV-7084(NVR, Crystal), SNV-7084R(NVR, Crystal)
<b>UDP</b>	IPN352HD(Mainconsole)
<b>Viakom</b>	Pet Osm Tri(Mainconsole)
<b>Zavio</b>	D8520, P4520

### FW upgrade:

<b>Brickcom</b>	OB-300AP(Mainconsole), OB-300NP(Mainconsole)
<b>CHAMP</b>	BL7302, BL7305, DM5302
<b>D-Link</b>	DCS-7413B1
<b>IPCam</b>	NBL7302, NBL7305, NDM5302

**Viakom** Pet Pet Dva(Mainconsole), Pet Ctyri Dva B(Mainconsole),  
Pet Sest Jedna(Mainconsole), Pet Sedm Jedna(Mainconsole)

**Zavio** B8220, B8520, D8210

## Multiple Stream (Without Setting) Supported:

**D-Link** DCS-2210L, DCS-2230L, DCS-6112B1(NVR, Crystal)

## Multiple Stream Setting Supported:

**Axis** P1425-E, P1427-LE, P5514, Q3505-V

**Brickcom** OB-300AP(Mainconsole), OB-300NP(Mainconsole)

**Capture** DCS20HDIR3V(Mainconsole), DCS30HDIR30(Mainconsole)

**Champ** FE5405

**D-Link** DCS-2103B1, DCS-2132LB1, DCS-3112, DCS-3710B, DCS-3714,  
DCS-6010L, DCS-7413B1, DCS-7513, DCS-2210L

**Fine** CDB-HFD828W, TCP-VM2210

**Hikvision** DS-2CD2032-I, DS-2CD4065F-P

**Mobotix** C25(NVR, Crystal)

**OEM** N24520, N78520

**Samsung** SND-7084(NVR, Crystal), SND-7084R(NVR, Crystal),  
SNV-7084(NVR, Crystal), SNV-7084R(NVR, Crystal)

**UDP** IPN352HD(Mainconsole)

**Viakom** Pet Pet Dva(Mainconsole), Pet Ctyri Dva B(Mainconsole),  
Pet Osm Tri(Mainconsole), Pet Sest Jedna(Mainconsole),  
Pet Sedm Jedna(Mainconsole)

**Zavio** D8520, P4520

## Renamed Model (support old FW)

### Notice:

1. Axis
  - a. P5514
    - i. Bitrate list does not synchronize with web. (Camera firmware issue)
    - ii. Frame rate list does not synchronize with web. (Camera firmware issue)
  - b. Q6045-E
    - i. PTZ speed does not synchronize with web. (Camera firmware issue)
  - c. P1427-LE
    - i. Frame rate list does not synchronize with web. (Camera firmware issue)
    - ii. The connection is unstable, since camera connects via link. (Camera Firmware issue)

## 2. Brickcom

### a. OB-300Np

- i. Upnp will find wrong model. (Camera firmware issue)
- ii. Camera with highest resolution is unable to achieve maximum FPS in any format.(Camera performance limitation)
- iii. Talk has noise. (Camera firmware issue)

### b. OB-300Ap

- i. Upnp will find wrong model. (Camera Firmware issue)
- ii. Camera with highest resolution is unable to achieve maximum FPS in any format.(Camera performance limitation)
- iii. Talk has noise. (Camera Firmware issue)

## 3. Capture

### a. DCS20HDIR3V

- i. The bitrate type will be VBR under H.264 after set camera parameter.(Camera Firmware issue)
- ii. The Max bitrate was wrong under H.264.(Camera Firmware issue)
- iii. The ranges of bitrate and framerate may be different from camera web. (Camera Firmware issue)
- iv. Motion detection is not supported on MJPEG. (Camera Firmware issue)

### b. DCS30HDIR30

- i. The bitrate type will be VBR under H.264 after set camera parameter.(Camera Firmware issue)
- ii. The Max bitrate was wrong under H.264.(Camera Firmware issue)
- iii. The ranges of bitrate and framerate may be different from camera web. (Camera Firmware issue)
- iv. Motion detection is not supported on MJPEG. (Camera Firmware issue)

## 4. D-Llink

### a. DCS-2132LB

- i. Audio out will happen the loss of function when change the camera parameters. (Camera Firmware issue)
- ii. Audio codec only can choose G711. (Camera Firmware issue)
- iii. Sometimes motion can not be used. (Camera Firmware issue)
- iv. Resolution list does not synchronize with camera web, that cause all stream connection fail when a stream of the resolution sets to an out of boundary.(Camera Firmware issue)

### b. DCS-2210

- i. In aspect 4:3 mode, the framerate list of CGI is not synchronized with the camera web when a stream sets to 1440x1080 resolution. (Camera Firmware issue)
    - ii. When the stream 1 with highest resolution, the stream 2, 3 are unable to achieve the setting framerate. (Camera performance issue)
  - c. DCS-2230L
    - i. The talk function can't be work. (Camera Firmware issue)
    - ii. When the stream 1 with highest resolution, the stream 2,3 are unable to achieve the setting framerate. (Camera performance issue)
    - iii. Stream 1 FPS will drop with the resolution large than 1024x768 when stream 2 or stream 3 connects in the same time. (Camera Performance issue)
  - d. DCS-3112
    - i. DI can not work. (Camera Firmware issue]
  - e. DCS-3710B1
    - i. Because the CGI content does not include qualitymode field, the bitrate control mode is not synchronized with camera web. (Camera Firmware issue)
  - f. DCS-3714
    - i. Not support 8M bitrate. (Camera Firmware issue)
  - g. DCS-6010L
    - i. The resolution is changed to 1600x1200, that the display mode of fisheye is enforced to 4R mode. (Camera Firmware issue)
  - h. DCS-6112B1
    - i. The camera with highest quality and MJPEG format is unable to achieve 30 fps. (Camera performance issue)
    - ii. The audio talk is not supported. (camera firmware issue)
  - i. DCS-7413B1
    - i. The camera with highest bitrate and resolution are unable to achieve the setting framerate. (Camera performance issue)
  - j. DCS-7513
    - i. The camera with highest bitrate and resolution are unable to achieve the setting framerate. (Camera performance issue)
    - ii. When the format changes to MPEG4 before format is H.264 or MJPEG with the 176x144 resolution, the display will mosaic. (Camera Firmware issue)
    - iii. The live view is not clear when the resolution changes to 320x176 or 480x270 in MPEG4. (Camera Firmware issue)
- 5. Fine
  - a. TCP-VM2210



- i. Talk does not implement. (Camera Firmware issue)
- ii. Bitrate list does not synchronize with web. (Camera Firmware issue)
- iii. Camera with highest resolution is unable to achieve maximum FPS in MJPEG or MPEG4. (Camera performance limitation)
- iv. The bitrate list does not synchronize with web. (Camera Firmware issue)
- v. PTZ speed does not synchronize with web. (Camera Firmware issue)

## 6. Hikvision

### a. DS-2CD4065F-P

- i. The list of camera Bitrate is not synchronized with camera's web.(Camera firmware issue)
- ii. When we name preset point , preset point label will change to arabic number.(Camera firmware issue)
- iii. When resolution is 3072x1728, can't not change into 1920x1080.(Camera firmware issue)

### b. DS-2CD2032-I

- i. Frame rate will be shown too high. (NUUO server limitation)

## 7. Samsung

### a. SND-7084R

- i. Snapshot's resolution will follow MJPEG stream.(Camera firmware issue)

## 8. UDP

### a. IPN352HD.

- i. Camera search can't be used.(NUUO server limitation)
- ii. Auto detect can't be used.(NUUO server limitation)
- iii. Stream 1's and stream 2's resolution can't be changed at the same time. (Camera firmware issue)
- iv. Frame rate can't achive the setting value in high parameter.(Camera firmware issue)
- v. VBR/CBR mode can't be changed. (Camera firmware issue)

## 9. Viacom

### a. Pet Ctyri Dva B

- I. Camera is unable to achive high FPS. (Camera performance limitation).
- II. Bitrate list does not synchronize with web. (NUUO server limitation)

### b. Pet Pet Dva

- I. Camera is unable to achive high FPS. (Camera performance limitation)
- II. Bitrate list does not synchronize with web.(NUUO server limitation)

### c. Pet Osm Tri

- I. Camera is unable to achive high FPS. (Camera performance limitation)

- II. Focus near/far active contrary.(Camera firmware issue)
  - III. Tilt speed cannot be changed.(Camera firmware issue)
  - IV. Auto focus will trigger auto pan.(Camera firmware issue)
  - d. Pet Sest Jedna
    - I. Camera is unable to achive high FPS. (Camera performance limitation)
    - II. Focus near/far active contrary.(Camera firmware issue)
    - III. Bitrate list does not synchronize with web.(NUUO server limitation)
  - e. Pet Sedm Jedna
    - I. Camera is unable to achive high FPS. (Camera performance limitation)
    - II. Focus near/far active contrary.(Camera firmware issue)
    - III. Auto focus will trigger auto pan.(Camera firmware issue)
    - IV. Bitrate list does not synchronize with web.(NUUO server limitation)
10. Zavio
- a. P4520
    - i. Frame rate list does not synchronize with web.(Camera firmware issue)
    - ii. Quality list does not synchronize with web.(Camera firmware issue)
    - iii. Textures will be broken in MJPEG 2560x1920. (Camera firmware issue)
    - iv. Multi-Stream Setting's auto mode can't setting correctly. (Camera firmware issue)

## Bug Fixed:

### [MainConsole]

1. [ALL Brand] - Fix Mainconsole crashed issue while searching cameras.
2. [Axis] - Fix Mainconsole reboot every 50 seconds.
3. [LG] - Fix Mainconsole Crashing from LG Camera.
4. [D-link] - HTTPS connection will restart Mainconsole.

## Release Version v4.5 (2015/09/15)

### Modules:

Device Pack v 4.5

### Supported Systems:

Mainconsole	v 4.1.12 and above*
NVRmini 2	v 2.1.0 and above**
NVRsolo	v 1.1.1 and above**
Titan NVR	v 1.6.2 and above

NUUO Crystal™ v 2.0.3 and above

\*For Mainconsole multi stream and setting function, please upgrade to Mainconsole v5.0.0 and above first.

\*\*For NVRmini 2 and NVRsolo multi stream setting function, please upgrade to NVRmini 2/NVRsolo v2.0.0 and above first.

\*\*\* For Mainconsole H.265, please upgrade to Mainconsole v6.0 and above first.

## New Camera Supported:

<b>ACTi</b>	V21, V23, V24, V32, E925
<b>Axis</b>	P1405-LE, Q6115-E
<b>Brickcom</b>	OB-300AP(Mainconsole), OB-300NP(Mainconsole), VD-201AF(Mainconsole)
<b>CHAMP</b>	BL7305, DM3112, DM7305
<b>D-Link</b>	DCS-6210, DCS-6511
<b>Fine</b>	CDV-4VM501Z42, TCP-VM469Z42
<b>Forenix</b>	IPZB-1000R (Mainconsole)
<b>Hikvision</b>	DS-2CD4625FWD-IZS, DS-2CD6026FHWD-A, DS-2DF8223I-AEL
<b>IPCam</b>	NBL7305, NDM3112, NDM7305
<b>Mobotix</b>	M25M(NVR)
<b>Vivotek</b>	IB8367-RT
<b>Zavio</b>	B8520

## FW upgrade:

<b>CHAMP</b>	BL3102, BL5302, DM3102, DM5302
<b>D-Link</b>	DCS-2132LB1, DCS-3714, DCS-6113B1, DCS-7000L
<b>Hikvision</b>	Generic
<b>IPCam</b>	NBL3102, NBL5302, NDM3102, NDM5302
<b>Zavio</b>	B6210, B8210, D4211, D6210, D8210, P6211

## Multiple Stream (Without Setting) Supported:

<b>D-Link</b>	DCS-2132LB1(NVR, Crystal), DCS-3714(NVR, Crystal), DCS-6113B1(NVR, Crystal), DCS-7000L(NVR, Crystal)
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## Multiple Stream Setting Supported:

<b>ACTi</b>	V21, V23, V24, V32, E925
<b>Axis</b>	P1405-LE, Q6115-E
<b>Brickcom</b>	OB-300AP(Mainconsole), OB-300NP(Mainconsole), VD-201AF(Mainconsole)

<b>CHAMP</b>	BL3102, BL5302, BL7305, DM3102, DM3112, DM5302, DM7305
<b>D-Link</b>	DCS-6210, DCS-6511
<b>Fine</b>	CDV-4VM501Z42, TCP-VM469Z42
<b>Forenix</b>	IPZB-1000R (Mainconsole)
<b>Hikvision</b>	DS-2CD4625FWD-IZS, DS-2CD6026FHWD-A, DS-2DF8223I-AEL, Generic
<b>IPCam</b>	NBL3102, NBL5302, NBL7305, NDM3102, NDM3112, NDM5302, NDM7305
<b>Mobotix</b>	M25M(NVR)
<b>Vivotek</b>	IB8367-RT
<b>Zavio</b>	B6210, B8210, B8520, D4211, D6210, D8210, P6211

## Renamed Model (support old FW)

<b>D-Link</b>	DCS-2132LB, DCS-5222LB, DCS-930LB, DCS-932LB, DCS-942LB
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## Notice:

1. ACTi
  - a. E925
    - i. The camera with highest quality and resolution cannot achieve maximum FPS. (Camera performance limitation)
    - ii. The camera cannot achieve maximum Bitrate. (Camera performance limitation)
  - b. V24
    - i. Camera is unable to achieve 30fps. (Camera Firmware issue)
2. Brickcom
  - a. OB-300Ap
    - i. Flip & Mirror can't use. (Camera Firmware issue)
    - ii. Talk can't be used. (Camera Firmware issue)
    - iii. Upnp will find wrong model. (Camera Firmware issue)
    - iv. Camera with highest resolution is unable to achieve maximum FPS in any format. (Camera performance limitation)
    - v. I/O active contrary. (Camera Firmware issue)
  - b. OB-300Ap
    - i. Flip & Mirror can't use. (Camera Firmware issue)
    - ii. Talk can't be used. (Camera Firmware issue)
    - iii. Upnp will find wrong model. (Camera Firmware issue)
    - iv. Camera with highest resolution is unable to achieve maximum FPS in any format. (Camera performance limitation)
    - v. I/O active contrary. (Camera Firmware issue)

- c. VD-201AF
  - i. Upnp will find wrong model. (Camera Firmware issue)
  - ii. Camera with highest resolution is unable to achieve maximum FPS in any format. (Camera performance limitation)
  - iii. I/O active contrary. (Camera Firmware issue)
  - iv. OSD will display 320x184 in MJPEG 320x180. (Camera performance limitation)
- 3. D-link
  - a. DCS-2132LB1
    - i. Not support TCP/UDP. (Camera Firmware issue)
    - ii. Talk is not clear. (Camera performance limitation)
    - iii. The probability of the audio out becomes invalid when changing a parameter of streams. (Camera performance limitation)
  - b. DCS-3714
    - i. The camera cannot achieve maximum FPS with MPEG4. (Camera performance limitation)
    - ii. Camera is unconnectable with GOP 30, 1 fps in HTTP. (Camera performance limitation)
    - iii. Not support 8M bitrate.
  - c. DCS-6113B1
    - i. The camera with highest quality and MJPEG format is unable to achieve 30 fps. (Camera Firmware issue)
    - ii. The audio talk is not supported.
  - d. DCS-6210
    - i. Flip and Mirror of CGI are contrary the camera web. (Camera Firmware issue)
    - ii. When move the camera, the camera is easily disconnect. (Camera performance limitation)
    - iii. Audio has noise by using internal microphone. (Camera performance limitation)
    - iv. In MJPEG, the live view displays 480x264 but the camera setting is 480x264. (Camera Firmware issue)
    - v. Each stream with any format and highest parameter setting are unable to achieve sufficient FPS. (Camera performance limitation)
    - vi. Ther camera with highest setting is unable to achieve sufficient FPS in MJPEG. (Camera performance limitation)
    - vii. The CGI's framerate and bitrate list is not same as camera web in the different resolution. (Camera Firmware issue)
    - viii. Camera is unable achieve sufficient FPS with over 4M bitrate. (Camera Firmware issue)

- e. DCS-6511
  - i. PTZ only support zoom and focus.
  - ii. When changing format from others format to MPEG4, the resolution "176x144" is not synchronized with resolution list. (Camera Firmware issue)
  - iii. Camera is unable to achieve maximum FPS. (Camera performance limitation)
- f. DCS-7000L
  - i. The parameters of the camera are not configurable with H.264 format. (Camera Firmware issue)
  - ii. The format of the camera is not configurable from MJPEG to H.264. (Camera Firmware issue)
  - iii. The camera with highest quality/resolution and MJPEG format is unable to achieve 30 fps. (Camera Firmware issue)
  - iv. Server format list is not same as camera web list. (Camera Firmware issue)
- 4. Fine
  - a. TCP-VM469Z42
    - i. Camera is unable to achieve high FPS. (Camera performance limitation)
    - ii. Server resolution list is not same as web resolution list. (Camera Firmware issue)
- 5. Hikvision
  - a. DS-2CD6026FHWD-A
    - i. Framerate and bitrate can not achieve to maximum. (Camera performance limitation)
    - ii. OSD will display 1920x1088 in MPEG4 1920x1080. (Camera Firmware issue)
    - iii. Can't get in 50 fps. (Camera Firmware issue)
  - b. DS-2DF8223I-AEL
    - i. Bitrate list is not synchronize with web. (Camera Firmware issue)
    - ii. Some default preset points can't be used. (NUUO server limitation)
- 6. Zavio
  - a. B8520
    - i. Audio stutter with highest bitrate, quality, resolution. (Camera performance limitation)
    - ii. Camera with highest resolution and MJPEG format is unable to achieve maximum fps. (Camera performance limitation)
    - iii. Server resolution list is not same as web page with MJPEG format. (Camera Firmware issue)
    - iv. Not support G.726. (Camera server limitation)

## Bug Fixed:

## **[MainConsole]**

1. [D-Link] - Fix home button of PTZ.
2. [Hikvision] - Fix part of crash bug of Hikvision camera.
3. [Onvif][Forenix] - Fix mainconsole crash after camera added.
4. [BrainChild] - Fix abnormal signal of DO triggered by DI.
5. [Brickcom] - Fix mc crash randomly.
6. [Onvif] - Fix mc crash per 30 seconds.
7. [Bosch] - Fix camera connects fail issue.

## **[Solo][Mini2][Titan][Crystal]**

1. [Solo/CHAMP][ALL Brand] - Server randomly crashed.

## Release Version v4.4 (2015/08/15)

### Modules:

Device Pack v 4.4

### Supported Systems:

Mainconsole	v 4.1.12 and above*
NVRmini 2	v 2.1.0 and above**
NVRsolo	v 1.1.1 and above**
Titan NVR	v 1.6.2 and above
NUUO Crystal™	v 2.0.3 and above

\*For Mainconsole multi stream and setting function, please upgrade to Mainconsole v5.0.0 and above first.

\*\*For NVRmini 2 and NVRsolo multi stream setting function, please upgrade to NVRmini 2/NVRsolo v2.0.0 and above first.

\*\*\* For Mainconsole H.265, please upgrade to Mainconsole v5.3.0 and above first.

### New Camera Supported:

<b>Axis</b>	P1425-LE, P3364-L, P3364-LV, Q6000, Q6044-E
<b>Capture</b>	DCS20HDIR3V, DCS30HDIR30
<b>Fine</b>	TCP-VM559Z42, CDV-5VM501Z42, SP-PTIR736B-IP
<b>GNS</b>	B2201, B3521RLE, B4201RLE, B4251RLE, B5201E, B6231E, B6232LE
<b>Hikvision</b>	DS-2CD2012F-I
<b>Intelbras</b>	VIP-S3020, VIP-S3230, VIP-S4000, VIP-S4020, VIP-S4200, VIP-S4220
<b>Mobotix</b>	i25
<b>Santec</b>	SNC-311DLNN

### FW upgrade:

<b>D-Link</b>	DCS-2210, DCS-2230, DCS-3511, DCS-6010L, DCS-6314, DCS-7110B1
<b>Fine</b>	SP-PTIR736A-IP
<b>GNS</b>	B3202LE

### Multiple Stream (Without Setting) Supported:

<b>Fine</b>	SP-PTIR736A-IP, SP-PTIR736B-IP
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### Multiple Stream Setting Supported:

<b>Axis</b>	P1425-LE, P3364-L, P3364-LV, Q6000, Q6044-E
<b>Capture</b>	DCS20HDIR3V, DCS30HDIR30



<b>D-Link</b>	DCS-2210, DCS-2230, DCS-3511, DCS-6010L, DCS-6314, DCS-7110B1
<b>Fine</b>	TCP-VM559Z42, CDV-5VM501Z42
<b>GNS</b>	B2201, B3202LE, B3521RLE, B4201RLE, B4251RLE, B5201E, B6231E, B6232LE
<b>Hikvision</b>	DS-2CD2012F-I
<b>Intelbras</b>	VIP-S3020, VIP-S3230, VIP-S4000, VIP-S4020, VIP-S4200, VIP-S4220
<b>Mobotix</b>	i25
<b>Santec</b>	SNC-311DLNN

## Notice:

1. Axis
  - a. P1425-LE
    - i. PTZ only support zoom & focus.
  - b. P3364-L
    - i. PTZ only support zoom & focus.
2. Capture
  - a. DCS20HDIR3V
    - i. The bitrate type will be VBR under H.264 after set camera parameter. (Camera Firmware issue)
    - ii. The Max bitrate was wrong under H.264. (Camera Firmware issue)
    - iii. The ranges of bitrate and framerate may be different from camera web. (Camera Firmware issue)
    - iv. Motion detection is not supported on MJPEG. (Camera Firmware issue)
  - b. DCS30HDIR30
    - i. The bitrate type will be VBR under H.264 after set camera parameter. (Camera Firmware issue)
    - ii. The Max bitrate was wrong under H.264. (Camera Firmware issue)
    - iii. The ranges of bitrate and framerate may be different from camera web. (Camera Firmware issue)
    - iv. Motion detection is not supported on MJPEG. (Camera Firmware issue)
3. D-link
  - a. DCS-2210
    - i. When the format changes to MPEG4 before format is H.264 or MJPEG with the 176x144 resolution, the display will has mosaic. (Camera performance limitation)

- ii. Camera with highest resolution and quality cannot achieve maximum FPS in any format. (Camera performance limitation)
  - b. DCS-3511
    - i. When sending a RS-485 command, the live view will be disconnected in a few seconds. (Camera Firmware issue)
    - ii. Audio out can not work. (Camera Firmware issue)
    - iii. Audio stutter with AAC and G.711, and G.711 is not clear. (Camera performance limitation)
    - iv. The digital output (DO) connector follows digital input (DI) to change status when DI is triggered. (Camera Firmware issue)
  - c. DCS-6010L
    - i. The camera enable each streaming is configured highestquality and resolution with samge format (H.264/MJPEG/MPEG4) in any fisheye mode, the live view will has mosaic. (Camera performance limitation)
    - ii. The camera with highest quality and resolution cannot achieve maximum FPS. (Camera performance limitation)
  - d. DCS-6314
    - i. Camera with highest resolution is unable to achieve maximum FPS in any format. (Camera performance limitation)
  - e. DCS-7110B1
    - i. The camera with highest quality and resolution cannot achieve 30 fps. (Camera performance limitation)
    - ii. The framerate list will not change when resolution has been changed. (Camera Firmware issue)
- 4. GNS
  - a. B4201RLE
    - i. Resolution will show 192x144 when set to QCIF in stream2. (Camera Firmware issue)
    - ii. Bit rate list may not be synchronized with web. (Camera Firmware issue)
    - iii. Bit rate may be set fail. (Camera Firmware issue)
  - b. B4251RLE
    - i. Bit rate list may not be synchronized with web. (Camera Firmware issue)
    - ii. Bit rate may be set fail. (Camera Firmware issue)
  - c. B6232LE
    - i. PTZ speed range will not synchronize with web. (Camera Firmware issue)
    - ii. Bit rate list may not be synchronized with web. (Camera Firmware issue)
    - iii. Bit rate may be set fail. (Camera Firmware issue)

- 5. Intelbras
  - a. VIP-S3020
    - i. Video parameter setting and rotate function may result in failure by Day/Night profile. (Camera Firmware issue)
    - ii. Stream parameter setting may fail if the ranges of bitrate and framerate or resolution are not synchronized with the camera web. (Camera Firmware issue)
    - iii. Bitrate value may not synchronize with web. (Camera Firmware issue)
  - b. VIP-S3230
    - i. Video parameter setting and rotate function may result in failure by Day/Night profile. (Camera Firmware issue)
    - ii. Stream parameter setting may fail if the ranges of bitrate and framerate or resolution are not synchronized with the camera web. (Camera Firmware issue)
    - iii. Bitrate value may not synchronize with web. (Camera Firmware issue)
  - c. VIP-S4000
    - i. Video parameter setting and rotate function may result in failure by Day/Night profile. (Camera Firmware issue)
    - ii. Stream parameter setting may fail if the ranges of bitrate and framerate or resolution are not synchronized with the camera web. (Camera Firmware issue)
    - iii. Bitrate value may not synchronize with web. (Camera Firmware issue)
  - d. VIP-S4020
    - i. Video parameter setting and rotate function may result in failure by Day/Night profile. (Camera Firmware issue)
    - ii. Stream parameter setting may fail if the ranges of bitrate and framerate or resolution are not synchronized with the camera web. (Camera Firmware issue)
    - iii. Bitrate value may not synchronize with web. (Camera Firmware issue)
  - e. VIP-S4200
    - i. Video parameter setting and rotate function may result in failure by Day/Night profile. (Camera Firmware issue)
    - ii. Stream parameter setting may fail if the ranges of bitrate and framerate or resolution are not synchronized with the camera web. (Camera Firmware issue)
    - iii. Bitrate value may not synchronize with web. (Camera Firmware issue)
  - f. VIP-S4220
    - i. Video parameter setting and rotate function may result in failure by Day/Night profile. (Camera Firmware issue)
    - ii. Stream parameter setting may fail if the ranges of bitrate and framerate or resolution are not synchronized with the camera web. (Camera Firmware issue)

- iii. Bitrate value may not synchronize with web. (Camera Firmware issue)
- 6. Mobotix
  - a. i25
    - i. Audio only support under MxPEG. (Camera Firmware issue)
    - ii. The max framerate we get only 12 frame per seconde. (Camera Firmware issue)
- 7. Santec
  - a. SNC-311DLNN
    - i. PTZ can not be used. (Camera Firmware issue)
    - ii. Video Parameter setting could not work. (Camera Firmware issue)
    - iii. Flip/Mirror could not work. (Camera Firmware issue)
    - iv. Stream parameter setting may fail if the ranges of bitrate and framerate are not synchronized with the camera web. (Camera Firmware issue)
    - v. UPnP can not be used. (Camera Firmware issue)

## Bug Fixed:

### [MainConsole]

1. [D-Link] - Fix DCS-2210 camera connection fail issue.

### [Solo][Mini2][Titan][Crystal]

1. [Panasonic] - Fix WV-SP306 connection issue with H.264.
2. [Panasonic] - Fix MD untriggerable issue for model WV-SP306 and WV-SF135.
3. [MIWI-URMET] - Fix add camera by localdisplay show no models from brand of MIWI-URMET issue.

## Release Version v4.3 (2015/07/15)

### Modules:

Device Pack v 4.3

### Supported Systems:

Mainconsole	v 4.1.12 and above*
NVRmini 2	v 2.1.0 and above**
NVRsolo	v 1.1.1 and above**
Titan NVR	v 1.6.2 and above
NUUO Crystal™	v 2.0.3 and above

\*For Mainconsole multi stream and setting function, please upgrade to Mainconsole v5.0.0 and above first.

\*\*For NVRmini 2 and NVRsolo multi stream setting function, please upgrade to NVRmini 2/NVRsolo v2.0.0 and above first.

\*\*\* For Mainconsole H.265, please upgrade to Mainconsole v5.3.0 and above first.

### New Camera Supported:

<b>Axis</b>	Q3505, P5624-E, P5624, P5635-E, P5635, Q6000-E, P3365, P3365-V, P3365-VE, P3905,
<b>CNB</b>	P3905-R, P3905-RE, P3915, P3915-R
<b>CHAMP</b>	CNB-MVC2050VR
<b>Fine</b>	DM3102, BL5302, DM5302, BL7302, DM7302, BL5103, DM5103, FE5403, TCP-IRH5080W-70, TCP-IRH5080W-50, CDV-DT95IR, CDB-4KM552,
<b>IPCam</b>	CDV-4KM502, TCP-KZ462
<b>Spark</b>	NBL5103, NDM5103, NFE5403 SR-C-F21100, SR-C-F25100-V, SR-C-F24110-FV, SR-C-F26110, SR-C-F22100-V,
<b>Vivotek</b>	SR-C-F23120-V IP816A, IP8155, IP8165, IP8355, IP8365, FD8155, FD8165, FD8355, FD8365,
<b>ZAVIO</b>	D8381, IB8381, IB8338, FD8138, FD8338, B6320, P4420, D6320, N38220, N78220, N24420

### FW upgrade:

<b>Fine</b>	CDV-P360-5, CDB-5VM551, CDV-5VM501, TCP-MH859
<b>D-Link</b>	DCS-7010L, DCS-7513, DCS-7517, DCS-6517

<b>LG</b>	LNP3020
<b>ZAVIO</b>	F3107

## Multiple Stream (Without Setting) Supported:

## Multiple Stream Setting Supported:

<b>Axis</b>	Q3505, P5624-E, P5624, P5635-E, P5635, Q6000-E, P3365, P3365-V, P3365-VE, P3905,
<b>CNB</b>	P3905-R, P3905-RE, P3915, P3915-R
<b>CHAMP</b>	CNB-MVC2050VR
<b>Dlink</b>	DM3102, BL5302, DM5302, BL7302, DM7302, BL5103, DM5103, FE5404,
<b>Fine</b>	DCS-7010L, DCS-7513, DCS-7517, DCS-6517 TCP-IRH5080W-70, TCP-IRH5080W-50, CDB-5VM551, CDV-5VM501,
<b>IPCam</b>	TCP-MH859
<b>Spark</b>	CDB-4KM552, CDV-4KM502, TCP-KZ462, CDV-DT95IR NBL5103, NDM5103
<b>Vivotek</b>	SR-C-F21100, SR-C-F25100-V, SR-C-F24110-FV, SR-C-F26110, SR-C-F22100-V, SR-C-F23120-V
<b>ZAVIO</b>	IP816A, IP8155, IP8165, IP8355, IP8365, FD8155, FD8165, FD8355, FD8365, FD8381, IB8381, IB8338, FD8138, FD8338 F3107

## Notice:

1. Axis
  - a. Q3505
    - i. Bitrate list range error. (Camera firmware issue)
    - ii. PTZ only support zoom & focus.
    - iii. FPS cannot reach to 30 fps due to multi-connection of camera. (Camera Performance Issue)
  - b. Q6000-E
    - i. The range of 5<sup>th</sup>'s frame rate is wrong. (Camera firmware issue)
2. CNB
  - a. MVC2050VR
    - i. Motion cannot be used when the camera connected over 1 min. (Camera firmware issue)
    - ii. Camera search failed if UPnP enable on camera web. (NUUO server limitation)
    - iii. The audio function cannot be used. (Camera firmware issue)

- iv. Only support FPS up to 10 when the resolution is 1280x720. (Camera firmware issue)
  - v. The bitrate list is different from camera web. (Camera firmware issue)
3. Dlink
- a. DCS-7010L
    - i. The camera with highest resolution is unable to achieve the setting framerate in H.264 and MPEG4. (Camera performance limitation)
    - ii. When the format changes to MPEG4 before format is H.264 or MJPEG with the 176x144 resolution, the display will be mosaiced. (camera firmware issue)
  - b. DCS-7513
    - i. The camera with highest bitrate and resolution are unable to achieve the setting framerate. ( Camera performance issue )
    - ii. When the format changes to MPEG4 before format is H.264 or MJPEG with the 176x144 resolution, the display will be mosaiced. (Camera firmware issue)
    - iii. The live view is not clear when the resolution changes to 320x176 or 480x270 in MPEG4. (Camera firmware issue)
  - c. DCS-7517
    - i. Audio out function could not work. (Camera firmware issue)
    - ii. Audio in functioned only support G.711 codec. (Camera firmware issue)
    - iii. OSD of live view is showed 960x536 when camera web is setting 960x540 resolution in MJPEG. (Camera fireware issue)
    - iv. Zoom and focs functions are not support. (Camera fireware issue)
    - v. DI is triggered and DO status will be opposite. (Camera fireware issue)
    - vi. Motion detection(MD) function is invalid when MD has activated for a long time. (Camera fireware issue)
4. Fine
- a. TCP-KM465
    - i. H.265 was not supported. (NUUO server limitation)
5. LG
- a. LNP3020
    - i. The 2nd stream's frame rate will exceed the setting value (Camera limitation).
6. Spark
- a. SR-C-F21100
    - i. Camera Search and Auto Detect was not supported. (Camera firmware issue)
    - ii. Bitrate Range in camera web was not synchronize with NUUO server. (Camera firmware issue)
    - iii. G711A 16K was not supported. (NUUO server limitation)

- iv. Because of bitrate range was not synchronizebetween server and camera web, camera setting probably fail. (Camera firmware issue)
  - b. SR-C-F26110
    - i. Camera Search and Auto Detect was not supported. (Camera firmware issue)
    - ii. Bitrate Range in camera web was not synchronize with NUUO server. (Camera firmware issue)
    - iii. G711A 16K was not supported. (NUUO server limitation)
    - iv. Because of bitrate range was not synchronizebetween server and camera web, camera setting probably fail. (Camera firmware issue)
  - c. SR-C-F25100-V
    - i. Camera Search and Auto Detect was not supported. (Camera firmware issue)
    - ii. Bitrate Range in camera web was not synchronize with NUUO server. (Camera firmware issue)
    - iii. G711A 16K was not supported. (NUUO server limitation)
    - iv. Because of bitrate range was not synchronizebetween server and camera web, camera setting probably fail. (Camera firmware issue)
  - d. SR-C-F23120-V
    - i. Camera Search and Auto Detect was not supported. (Camera firmware issue)
    - ii. Bitrate Range in camera web was not synchronize with NUUO server. (Camera firmware issue)
    - iii. G711A 16K was not supported. (NUUO server limitation)
    - iv. Because of bitrate range was not synchronizebetween server and camera web, camera setting probably fail. (Camera firmware issue)
  - e. SR-C-F22100-V
    - i. Camera Search and Auto Detect was not supported. (Camera firmware issue)
    - ii. Bitrate Range in camera web was not synchronize with NUUO server. (Camera firmware issue)
    - iii. Because of bitrate range was not synchronizebetween server and camera web, camera setting probably fail. (Camera firmware issue)
  - f. SR-C-F24110-FV
    - i. Camera Search and Auto Detect was not supported. (Camera firmware issue)
    - ii. Bitrate Range in camera web was not synchronize with NUUO server. (Camera firmware issue)
    - iii. In G.711 sound will distort. (Camera firmware issue)
    - iv. Zoom can't use successfully. (Camera performance limitation)
- 7. Vivotek
  - a. IB8338-H



- i. Audio has noise. (Camera firmware issue)
    - ii. Snapshot's resolution is same as stream 3. (Camera limitation)
    - iii. Smart stream will set fail (Camera firmware issue)
  - b. IP816A-HP
    - i. Audio has noise. (Camera firmware issue)
    - ii. Snapshot's resolution is same as stream 3. (Camera limitation)
    - iii. Camera is unable to achieve high FPS. (Camera performance limitation)
    - iv. Can't use Home. (Camera firmware issue)
    - v. PTZ speed range will not sync. with web. (Camera firmware issue)
  - c. FD8381-EV
    - i. When resolution large than 2048x2048, we don't support audio. (Camera firmware issue)
    - ii. Audio has noise. (Camera firmware issue)
    - iii. Snapshot's resolution is same as stream 3. (Camera limitation)
    - iv. Camera is unable to achieve high FPS. (Camera performance limitation)
    - v. Smart stream will set fail. (Camera firmware issue)
- 8. Zavio
  - a. F3107
    - i. Audio via AMR has noises. (Camera firmware issue)

## Bug Fixed:

### [MainConsole]

- 4. [Dynacolor] - Fix a memory leak issue (buffer overflow) when we obtained an incomplete response of CGI from camera.
- 5. [Hikvision] - Fix fisheye camera crash when use camera setting.
- 6. [Hikvision] - Fix hikvision generic model connection fail issue.

### [Solo][Mini2][Titan][Crystal]

- 4. [DynaColor] - Fix server crash caused by DynaColor camera dual stream disconnection fail.
- 5. [Level One] - Fix levelone camera connect fail issue in champ.

## Release Version v4.2 (2015/06/15)

### Modules:

Device Pack v 4.2

### Supported Systems:

Mainconsole	v 4.1.12 and above*
NVRmini 2	v 2.1.0 and above**
NVRsolo	v 1.1.1 and above**
Titan NVR	v 1.6.2 and above
NUUO Crystal™	v 2.0.3 and above

\*For Mainconsole multi stream and setting function, please upgrade to Mainconsole v5.0.0 and above first.

\*\*For NVRmini 2 and NVRsolo multi stream setting function, please upgrade to NVRmini 2/NVRsolo v2.0.0 and above first.

\*\*\* For Mainconsole H.265, please upgrade to Mainconsole v5.3.0 and above first.

### New Camera Supported:

<b>CHAMP</b>	BL3102
<b>Dlink</b>	DCS-4802E
<b>Fine</b>	TCP-VM469, CDV-4VM501, CDB-4VM551
<b>IPCam</b>	NDM7302, NBL7302, NFE5404
<b>OEM</b>	N36320, N76320
<b>Panasonic</b>	WV-SW598, WV-SC385, WV-SFV481
<b>ZAVIO</b>	B6320, P4420, D6320, N38220, N78220, N24420

### FW upgrade:

<b>Dlink</b>	DCS-4602EV, DCS-4701E, DCS-4201, Universal Model ( test by using DCS-6513 FW: 1.03.03)
<b>Fine</b>	TCP-IRH5080-70, TCP-IRH5080-50
<b>Hikvision</b>	DS-2CD6362F-IVS
<b>Panasonic</b>	WV-SFV631L, WV-SFV631LT, WV-SFV611L, WV-SPN631, WV-SPW631L
<b>ZAVIO</b>	B8220, D8220

### Multiple Stream (Without Setting) Supported:

<b>Dlink</b>	DCS-3716, DCS-7010L
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## Multiple Stream Setting Supported:

<b>CHAMP</b>	BL3102
<b>Dlink</b>	DCS-4602EV, DCS-4701E, DCS-4201, DCS-4802E, Universal Model ( test by using DCS-6513 FW: 1.03.03)
<b>Fine</b>	TCP-VM469, TCP-IRH5080-70, TCP-IRH5080-50, CDV-4VM501, CDB-4VM551
<b>Hikvision</b>	DS-2CD6362F-IVS
<b>IPCam</b>	NDM7302, NBL7302, NFE5404
<b>OEM</b>	N36320, N76320
<b>Panasonic</b>	WV-SFV631L, WV-SW598, WV-SC385, WV-SFV481, WV-SFV631LT, WV-SFV611L, WV-SPN631, WV-SPW631L
<b>ZAVIO</b>	B6320, B8220, P4420, D6320, D8220, N38220, N78220, N24420

## Notice:

1. CHAMP
  - a. BL3102
    - i. UPnP can't be used. (Camera Firmware Issue)
2. Dlink
  - a. DCS-4602EV
    - i. The camera with highest resolution is unable to achieve the setting framerate in MJPEG. (camera performance limitation)
  - b. DCS-4201
    - i. The 2nd stream can not set to resolution 1280x720, when stream1 resolution is 1280x720. (camera firmware issue)
    - ii. The camera with highest resolution is unable to achieve the setting framerate. (camera performance limitation)
  - c. DCS-7010L
    - i. The camera with highest resolution is unable to achieve the setting framerate in MJPEG and MPEG4. (camera performance limitation)
    - ii. The bitrate for 3rd stream may be higher than 100kbps. (camera performance limitation)
  - d. Universal Model ( test by using DCS-6513 FW: 1.03.03)
    - i. The camera with highest resolution is unable to achieve the setting framerate in MJPEG, MPEG4 and H.264. (camera performance limitation)
    - ii. The zoom in and out of behaviour are opposite. (camera firmware issue)
    - iii. The 3rd stream can not set resolution to 2048x1536 when stream 1 and stream 2 are 2048x1536. (camera performance limitation)

- iv. When the format changes to MPEG4 before format is H.264 or MJPEG with the 176x144 resolution, the display will mosaic. (camera firmware issue)
      - v. Universal Model now integrate from spec Nipca 1.9.5..
    - e. DCS-3716
      - i. The quality setting of M-JPEG is unavailable. (camera firmware issue)
      - ii. The main stream of resolution and frame rate list are different with camera web in MPEG4. (camera firmware issue)
      - iii. The camera with highest resolution is unable to achieve the setting framerate. (camera performance limitation)
      - iv. The frame rate list is different with camera web when resolution set to 2048x1536. (camera firmware issue)
      - v. The 2nd stream with any resolution is unable to achieve the setting bitrate in MPEG4. (camera performance limitation)
      - vi. Talk function has stutter. (camera firmware issue)
- 3. Fine
  - a. TCP-VM469
    - i. Resolution list & frame rate list may not synchronize with web. (Camera firmware issue)
- 4. Hikvision
  - a. DS-2CD6362F-IVS
    - i. Not support MP2L2. (NUUO server limitation)
    - ii. When audio codec is changed in webpage, audio in IP Camera 2, 3, 4, 5 can't use correct codec. (Camera firmware issue)
    - iii. If stream mode is " Mode 2: Fisheye / 4 PTZ", the total number of connections is limited. ex: If someone preview "Fisheye view", you are not permitted to preview " 4 PTZ view". (Camera performance limitation)
- 5. Panasonic
  - a. WV-SFV631L
    - i. The bitrate list doesn't match the camera web. (Camera firmware issue)
    - ii. Zoom & focus can't be used. (Camera Firmware issue)
    - iii. Brightness value may not synchronize with web. (Camera Firmware issue)
    - iv. Bit Rate Control (Transmission priority) only support Constant bit rate & Frame rate. (NUUO server limitation)
  - b. WV-SW598
    - i. Brightness value may not synchronize with web. (Camera Firmware issue)
    - ii. The flip status on camera web is opposite to server. (Camera Firmware issue)
    - iii. The move function can not make live view to center. (Camera Firmware issue)

- c. WV-SC385
  - i. Brightness value may not synchronize with web. (Camera Firmware issue)
  - ii. Bit Rate Control (Transmission priority) only support Constant bit rate & Frame rate. (NUUO server limitation)
  - iii. The flip status on camera web is opposite to server. (Camera Firmware issue)
- d. SFV481
  - i. Brightness Value may not synchronize with Camera Web Interface (Camera firmware issue)
  - ii. Audio out 16Kbps was not supported. (NUUO server limitation)
  - iii. Digital in and Digital out can not trigger continuously. (Camera firmware issue.)
  - iv. Camera may not achieve maximum FPS. (Camera Performance issue)
  - v. The range of bitrate may not synchronize with camera web (Camera firmware issue)
  - vi. The bit-rate & FPS values in the combo box are not all valid, users have to choose a valid one (the range can be get from the web of the device) while setting. (NUUO Server limitation)
  - vii. Snapshot resolution may not synchronize with display resolution (NUUO server limitation)

## 6. ZAVIO

- a. B8220
  - i. The max resolution of stream3 will not synchronize with camera web. (Camera firmware issue)
  - ii. Audio has noise with AMR. (Camera firmware issue)
  - iii. Not G.726 support. (NUUO server limitation)
  - iv. Camera is unable to achieve maximum FPS when audio codec is AMR. (Camera performance limitation)
- b. P4420
  - i. The max resolution of stream3 will not synchronize with camera web.

## Release Version v4.1 (2015/04/18)

### Modules:

Device Pack v 4.1

### Supported Systems:

Mainconsole	v 4.1.12 and above*
NVRmini 2	v 2.1.0 and above**
NVRsolo	v 1.1.1 and above**
Titan NVR	v 1.6.2 and above
NUUO Crystal™	v 2.0.3 and above

\*For Mainconsole multi stream and setting function, please upgrade to Mainconsole v5.0.0 and above first.

\*\*For NVRmini 2 and NVRsolo multi stream setting function, please upgrade to NVRmini 2/NVRsolo v2.0.0 and above first.

\*\*\* For Mainconsole H.265, please upgrade to Mainconsole v5.3.0 and above first.

### New Camera Supported:

<b>3Svision</b>	N6082, N8072-C, N9073, N9074, N9082, N9085
<b>ACTi</b>	D72A, D82A
<b>Arecont</b>	AV3100M
<b>Dlink</b>	DCS-1301, DCS-6515
<b>EverFocus</b>	Generic
<b>Fine</b>	CDV-MD605, SP-HP2013C-IP, SP-HP2313C-IP, SP-HP2020CM-IP, SP-HP2030CM-IP, SP-HP2620CP-IP, TCP-HDVB110
<b>Forenix</b>	IPD-1080WDR, IPX-1080WDR, IPV-1080WDR, IPB-1080WDR, ISPD-2018,
<b>Panasonic</b>	ISPD-2020
<b>SANTEC</b>	K-EF134L, K-EW114L
<b>SPARK</b>	SNC-211RSIA
<b>VIVOTEK</b>	Nitida 12000 FD8367-V, FD8367-TV

### FW upgrade:

<b>3Svision</b>	N3072
<b>ACTi</b>	KCM5611

<b>Dlink</b>	DCS-4602EV
<b>Fine</b>	CDB-HFD720, CDB-MV720F-H, CDV-P360-5, SP-HP2020C-IP, SP-HP2320C-IP, SP-HP2330C-IP, SP-HP2020Q-IP, SP-HP2030Q-IP, SP-HP2330Q-IP, SP-HP2336Q-IP, TCP-BF108, TCP-BF128, TCP-HDVB720-H, TCP-HFB720-H
<b>Zavio</b>	B8220, D8220

## Multiple Stream Setting Supported:

<b>3Svision</b>	N3072, N9073, N9074, N9085, N9082, N6082, N8072
<b>ACTi</b>	D72A, D82A, KCM5611
<b>Arecont</b>	AV3100M
<b>Dlink</b>	DCS-1301, DCS-4602EV
<b>EverFocus</b>	Generic
<b>Fine</b>	SP-HP2013C-IP, SP-HP2313C-IP, SP-HP2030CM-IP, SP-HP2620CP-IP, TCP-HDVB110, CDB-HFD720, CDB-MV720F-H, CDV-P360-5, SP-HP2320C-IP, SP-HP2330C-IP, SP-HP2020Q-IP, SP-HP2030Q-IP, SP-HP2330Q-IP, SP-HP2336Q-IP, TCP-BF108, TCP-BF128, TCP-HDVB720-H, TCP-HFB720-H
<b>Forenix</b>	IPD-1080WDR, IPX-1080WDR, IPV-1080WDR, IPB-1080WDR, ISPD-2018,
<b>Panasonic</b>	ISPD-2020
<b>SANTEC</b>	K-EF134L, K-EW114L
<b>SPARK</b>	SNC-211RSIA
<b>VIVOTEK</b>	Nitida 12000
<b>Zavio</b>	FD8367-V, FD8367-TV B8220, D8220

## Notice:

1. ACTi
  - a. KCM-5611
    - i. Max resolution with stream1 will be affected by stream2 and vice versa (Camera Firmware issue).
    - ii. Motion detection does not support with MJPEG format (Camera Firmware issue).
    - iii. Response is slow to RS485 (Camera Firmware issue).
2. Arecont
  - a. AV3100M
    - i. DI/DO is not active so that we can't integrate it.(Camera Firmware issue)
    - ii. Camera is unable to achieve ordinary FPS due to insufficient performance.(Camera performance limitation)

- iii. The connections at dual stream mode are unstable.(Camera performance limitation)
  - iv. To get a model name is not match a real name so that auto detection and camera search tool can not support. (Camera Firmware issue)
3. D-link
- a. DCS-1301
    - i. The resolution and bitrate list may not be synchronized with camera web.(Camera Firmware issue)
4. EverFocus
- a. Generic
    - i. Not support CBR mode. (Camera Firmware issue)
    - ii. It will lose parameters of stream2 and stream3 if you disable stream2 and stream3 on camera web. (Camera performance limitation)
5. Fine
- a. SP-HP2013C-IP
    - i. DI & DO can't be used. (Camera Firmware issue)
    - ii. Bitrate list and quality list may not be synchronized with camera web. (Onvif limitation)
    - iii. 704x288 is not shown in the resolution list of the second stream. (Camera Firmware issue)
    - iv. Auto focus is not supported. (Camera performance limitation)
    - v. [IP+]Video parameter setting does not synchronize to camera web. (Camera Firmware issue)
    - vi. [NAS]Focus and PTZ speed setting are not supported. (NUUO server limitation)
    - vii. [NAS]The image of snapshot doesn't update via Snapshot to FTP function.(Camera Firmware issue)
  - b. SP-HP2020C-IP
    - i. DI does not function. (Camera Firmware issue)
    - ii. DO is unable to turn off. (Camera Firmware issue)
    - iii. Bitrate list and quality list may not be synchronized with camera web. (Onvif limitation)
    - iv. 704x288 is not shown in the resolution list of the second stream. (Camera Firmware issue)
    - v. Flip and mirror are not supported. (Onvif limitation)
    - vi. Auto pan is not supported. (Onvif limitation)
    - vii. Auto focus is not supported. (Camera performance limitation)
    - viii. Hue setting is not supported. (Onvif limitation)



- ix. Video parameter setting does not synchronize to camera web. (Camera Firmware issue)
  - x. [NAS]Focus and PTZ speed setting are not supported. (NUUO server limitation)
  - c. TCP-HDVB720-H
    - i. Setting FPS have problems(Camera Firmware issue), example:
      - (1) Stream1 & Stream2 format: JPEG, when stream1's resolution decrease, stream2's fps would increase a little
      - (2) Stream1 & Stream2 format: H264, stream2's fps can't reach our setting
      - (3) When this camera's users more than 1, fps would decrease
6. Forenix
- a. IPD-1080WDR
    - i. Stream1 and stream2 framerate list is not as same as web. (Camera Firmware issue)
    - ii. In 1080p HD 12bits 60fps(True WDR) mode, stream2 and stream3 can not connect , and can not get parameters.(Camera Firmware issue)
  - b. IPSD-2020
    - i. Not support Talk.(Camera Firmware issue)
    - ii. Always trigger input-0 if alarm 1~4 has been triggered.(Camera Firmware issue)
    - iii. Audio was broken with G.726.(Camera Firmware issue)
    - iv. [NAS]Focus can't be used.(NUUO server limitation)
    - v. Not support camera search.(NUUO server limitation)
    - vi. Not support auto detection.(NUUO server limitation)
7. Panasonic
- a. K-EF134L
    - i. The bit-rate values in the combo box are not all valid, users have to choose a valid one (the range can be get from the web of the device) while setting. (NUUO Server limitation)
    - ii. Video parameter setting and rotate function may result in failure by Day/Night profile. (Camera Firmware issue)
    - iii. When format is MJPEG, and resource is too much, the image is not complete. (Camera performance limitation)
    - iv. UPNP search fail. (Camera Firmware issue)
  - b. K-EW114L
    - i. The bit-rate values in the combo box are not all valid, users have to choose a valid one (the range can be get from the web of the device) while setting. (NUUO Server limitation)
    - ii. Video parameter setting and rotate function may result in failure by Day/Night profile. (Camera Firmware issue)

- iii. When format is MJPEG, and resource is too much, the image is not complete. (Camera performance limitation)
  - iv. The bitrate ranges of server are different from camera web while image format is MJPEG.(Camera Firmware issue)
8. Santec
- a. SNC-211RSIA
    - i. Audio in with 16 KHz sampling rate does not supported. (NUUO server limitation)
    - ii. Camera UPNP Search does not supported (Camera Firmware issue)
    - iii. Auto Focus function does not supported (Camera Firmware issue)
    - iv. Stream parameter setting may fail if the ranges of bitrate and framerate are not synchronized with the camera web. (Camera Firmware issue)
    - v. Server Bitrate Value may not synchronized with web interface. (Camera Firmware issue)
    - vi. Mirror function integrated with flip function, mirror button does not work. (Camera Firmware issue)
9. Spark
- a. Nitida 12000
    - i. Second stream is unable to achieve setting bit rate.(Camera performance limitation)
10. 3Svision
- a. N3072
    - i. The bit rate via MJPEG is too high. (Camera performance limitation)
    - ii. The frame rate via MJPEG is unable to achieve maximum FPS. (Camera performance limitation)
    - iii. Connection lost when frame rate is set to 1 fps. (Camera performance limitation)
    - iv. Pan and tilt speed will set together. (Camera Firmware issue)
    - v. Down left, Down right, up left and up right will pan first and then still tilt. (Camera Firmware issue)
  - b. N8072-C
    - i. The actual audio codec is different with the setting codec. (Camera Firmware issue)
    - ii. The stream 3's fps range is different to web. (Camera Firmware issue)
  - c. N9085
    - i. The minimum stream's bitrate is too high. (Camera performance limitation)
    - ii. The stream 3's fps range is different to web. (Camera Firmware issue)

## **Bug Fixed:**

[MainConsole]

## Release Version v4.0.0 (2015/04/15)

### Modules:

Device Pack v 4.0.0

### Supported Systems:

Mainconsole	v 4.1.12 and above*
NVRmini 2	v 1.7.1 and above**
NVRsolo	v 1.1.1 and above**
Titan NVR	v 1.6.2 and above
NUUO Crystal™	v 2.0.3 and above

\*For Mainconsole multi stream and setting function, please upgrade to Mainconsole v5.0.0 and above first.

\*\*For NVRmini 2 and NVRsolo multi stream setting function, please upgrade to NVRmini 2/NVRsolo v2.0.0 and above first.

### New Camera Supported:

<b>ADEMCO</b>	ADKIL134RT, ADKID134RT, ADKID207VRT,ADKID204VRT, ADKID207RT, ADKIL207RT
<b>D-Link</b>	DCS-4201, DCS-4602EV
<b>Fine</b>	CDV-3F828, SP-PTIR736A-IP, TCP-BF208, TCP-HDVB180
<b>Hikvision</b>	DS-8116HQHI-SH
<b>Panasonic</b>	DG-GXE100, WV-SF539, WV-SPN311, WV-SFV611L, WV-SFV631LT, WV-SPN631, WV-SPW631L, WV-SW155, WV-SW458
<b>SANTEC</b>	SNC-311FBIF, SNC-311FEIF, SNC-311RINA, SNC-311RDIA, SNC-311RIBIA
<b>VIVOTEK</b>	FE8181
<b>Zavio</b>	B6210, B8220, D6210, D8220

### FW upgrade:

<b>Centrix</b>	Generic
<b>D-Link</b>	DCS-6513

### Multiple Stream Setting Supported:

<b>ADEMCO</b>	ADKIL134RT, ADKID134RT, ADKID207VRT,ADKID204VRT, ADKID207RT, ADKIL207RT
<b>Centrix</b>	Generic
<b>D-Link</b>	DCS-4201, DCS-4602EV, DCS-6513
<b>Fine</b>	CDV-3F828, TCP-BF208, TCP-HDVB180
<b>Hikvision</b>	DS-8116HQHI-SH
<b>Panasonic</b>	DG-GXE100, WV-SF539, WV-SPN311, WV-SFV611L, WV-SFV631LT, WV-SPN631, WV-SPW631L, WV-SW155, WV-SW458
<b>SANTEC</b>	SNC-311FBIF, SNC-311FEIF, SNC-311RINA, SNC-311RDIA, SNC-311RBIA
<b>VIVOTEK</b>	FE8181
<b>Zavio</b>	B6210, B8220, D6210, D8220

## Notice:

1. ADEMCO
  - a. ADKID134RT, ADKIL134RT, ADKID207RT, ADKIL207RT, ADKID204VRT, ADKID207VRT
    - i. The ranges of bitrate and framerate may be different from camera web. (Camera Firmware issue)
    - ii. PTZ controls are not supported via ONVIF. (Camera Firmware issue)
    - iii. Motion detection is not supported on MJPEG. (Camera performance limitation)
    - iv. Bitrate of actual streaming may be different from the setting. (Camera Firmware issue)
    - v. Frame rate of actual streaming may be different from the setting. (Camera Firmware issue)
2. Centrix
  - a. Generic
    - i. It can't stop pan & tilt sometimes. (Camera performance limitation)
    - ii. It can't set zoom speed. (Camera Firmware issue)
    - iii. It should set one stream in MJPEG, the snapshot will work. (Camera Firmware issue)
    - iv. If set preset point too fast, it will set wrong point. (Camera performance limitation)
    - v. The resolution setting doesn't synchronize with web. (Camera Firmware issue)
3. Dahua
  - d. HCVR5104H
    - i. The bit-rate values in the combo box are not all valid, users have to choose a valid one (the range can be get from the web of the device) while setting. (NUUO Server limitation)
    - ii. The auto detection and the UPnP searching are not supported. (Camera Firmware issue)
    - iii. The audio-in is for Channel 1 only. (Camera Firmware issue)

- iv. The PCM audio format is not supported. (Camera Firmware issue)
  - v. The talk function is not supported. (Camera Firmware issue)
  - vi. The move and auto-pan functions of PTZ are not supported. (Camera Firmware issue)
  - vii. After doing focus-near or focus-far, it will do autofocus immediately. (Camera Firmware issue)
  - viii. The auto-focus is not supported because it is not supported by the Dahua CGI API. (Camera Firmware issue)
  - ix. The motion detection is not supported. (Camera Firmware issue)
  - x. In some cases (lower FPS), setting the video configuration will fail, even the bit-rate is fit. (Camera Firmware issue)
4. D-link
- a. DCS-4201
    - i. In aspect ratio 4:3, stream2 is unable to achieve maximum 30 FPS when stream1 is setting maximum 30 FPS with highest quality and 960x720 resolution.(Camera performance limitation)
    - ii. In aspect ratio 16:9, stream2 is unable to achieve maximum 30 FPS when stream1 is setting maximum 30 FPS with highest quality and 1280x720 resolution. (Camera performance limitation).
  - b. DCS-4602EV
    - i. The resolution in Stream 1 and Stream 2 can't set 1280x720 at the same time.(Camera Firmware issue)
  - c. DCS-6513
    - i. PTZ only supports focus.
    - ii. In aspect ratio 4:3, the resolution of profile2 can't set 2048x1536 with H.264 and MJPEG.(Camera firmware issue)
    - iii. We can't integrate zoom function in our system, due to CGI request only has get operation by defining NIPCA 1.9.5. (Camera firmware issue)
5. Hikvision
- a. DS-8116HQHI-SH
    - i. The resolution of streaming was not stable.(Camera Firmware issue)
    - ii. MD can't be used.(Camera Firmware issue)
    - iii. The video parameter(brightness, contrast..) can't be used.(Camera Firmware issue)
    - iv. UPnP search can't be used.(Camera Firmware issue)
    - v. The number of DI and DO was wrong.(Camera Firmware issue)
    - vi. Can't get RTSP port, default value 554.(Camera Firmware issue)
6. Panasonic

- a. WV-SF539
    - i. Brightness value may not synchronize with web. (Camera Firmware issue)
    - ii. Video connect fail with specific parameters.  
Detail:  
<https://docs.google.com/spreadsheets/d/1Ri44tFID29DKYhf-s6VQhDIImfYycbLV8nuhpASVlksw/edit#gid=0>
    - iii. The 2nd stream cannot be set and connect while the image mode is 3mega pixel.(Camera Firmware issue)
  - b. WV-SFV631LT
    - i. AAC-LC is only used when recording audio on an SD memory card.(Camera performance limitation)
    - ii. Snapshot resolution is always the same as MJPEG resolution.(Camera performance limitation)
    - iii. Camera is unable to achieve maximum FPS.(Camera performance limitation)
  - c. WV-SW155
    - i. Brightness value may not synchronize with web. (Camera Firmware issue)
  - d. WV-SW458
    - i. G726/16Kbps has noise. (NUUO server limitation)
    - ii. Brightness value may not synchronize with web.(Camera Firmware issue)
    - iii. MountType and DisplayMode UI only support English. (NUUO server limitation)
    - iv. Camera is unable to achieve maximum FPS. (Camera performance limitation)
    - v. Setting higher bitrate may be fail (Camera Firmware issue)
    - vi. Motion event snapshot resolution may not synchronize with current stream (NUUO server limitation)
7. Santec
- a. SNC-311 FEIF
    - i. Camera search is not supported. (Camera Firmware issue)
    - ii. Stream parameter setting may fail if the ranges of bitrate and framerate are not synchronized with the camera web. (Camera performance limitation)
    - iii. HTTP and RTSP port cannot be changed on the camera web. (Camera Firmware issue)
  - b. SNC-311 RBIA
    - i. Camera search is not supported. (Camera Firmware issue)
    - ii. Autodetection will detect the wrong model. (Camera Firmware issue)
    - iii. Stream parameter setting may fail if the ranges of bitrate and framerate are not synchronized with the camera web. (Camera performance limitation)
    - iv. Pan and tilt are not supported. (Camera performance limitation)

- v. Camera does not stop zooming until it reaches the end. (Camera Firmware issue)
  - vi. Some frame rates are not supported if the video format is H.264H. (Camera performance limitation)
  - vii. Video parameter setting, flip and mirror are supported under normal mode. (NUUO server limitation)
8. Vivotek
- a. FE8181
    - i. PTZ only support zoom.
    - ii. Brightness & Contrast range is not synchronize with web. (Camera Firmware issue)
    - iii. Snapshot will save stream3's resolution. (Camera Firmware issue)
9. Zavio
- a. B6210
    - i. Framerate range is not synchronize with web. (Camera Firmware issue)
  - b. N26210, N26211
    - i. Stream 2 CGI setting will fail when resolution of Profile3 is 1920x1080 and 1280x720.(Camera Firmware issue)
    - ii. The camera with higher quality and MJPEG format is unable to achieve 30 fps.(Camera Firmware issue)
  - c. N77320
    - i. Frame rate can't reach setting value.(Camera Firmware issue)

## Bug Fixed:

### [MainConsole]

1. [Axis] - Fix issue that Main Console Edge Record automatically stops in every day.
2. [Arecont] - Fix issue that cannot set parameters of Arecont cameras.
3. [Generic RTSP] - Fix Generic RTSP crash issue.
4. [Sony] - Fix crash issue.



## Release Version v3.13.0 (2015/03/16)

### Modules:

Device Pack v 3.13.0

### Supported Systems:

Mainconsole	v 4.1.12 and above*
NVRmini 2	v 1.7.1 and above**
NVRsolo	v 1.1.1 and above**
Titan NVR	v 1.6.2 and above
NUUO Crystal™	v 2.0.3 and above

\*For Mainconsole multi stream and setting function, please upgrade to Mainconsole v5.0.0 and above first.

\*\*For NVRmini 2 and NVRsolo multi stream setting function, please upgrade to NVRmini 2/NVRsolo v2.0.0 and above first.

### New Camera Supported:

<b>Acti</b>	I92
<b>Axis</b>	P3214-V, P3215-V
<b>Dahua</b>	IPC-HFW5302C, IPC-HF5100, IPC-HF5200, IPC-HFW5100D, IPC-HFW5200D, IPC-HFW5100-IRA, IPC-HFW5200-IRA, IPC-HFW5100C, IPC-HFW5200C, IPC-HFW5300C, IPC-HFW5202C, IPC-HFW5100E-VF, IPC-HFW5200E-VF, IPC-HFW5300E-VF, IPC-HFW5200E-Z, IPC-HFW5300E-Z, IPC-HDBW5100, IPC-HDBW5200, IPC-HDBW5300, IPC-HDBW5202, IPC-HDBW5302, IPC-HDBW5100-DI, IPC-HDBW5200-DI, IPC-HDBW5300-DI, IPC-HDBW5202-DI, IPC-HDBW5302-DI, IPC-HDB5100, IPC-HDB5200, IPC-HDB5300, IPC-HDB5202, IPC-HDB5302, IPC-HDB5100-DI, IPC-HDB5200-DI, IPC-HDB5300-DI, IPC-HDB5202-DI, IPC-HDB5302-DI, SD32203S-HN, SD50220S-HN, SD50230S-HN, SD52C220S-HN, SD52C230S-HN, SD50120S-HN, SD52C120S-HN, SD40212S-HN, SD42212S-HN, SD42C212S-HN, SD59212S-HN, SD59230S-HN, SD59120S-HN, SD63220S-HN, SD63230S-HN, SD63120S-HN, SD6C220S-HN, SD6C230S-HN, SD6C120S-HN, SDZW2030S-HN
<b>D-Link</b>	DCS-1201, DCS-4701E
<b>Fine</b>	ACM-V3002, TCP-HVB3100D, TCP-HVB3105D, ACM-R3002, TCP-MB605
<b>GNS</b>	GNS-A3101LE, GNS-A3253LE, GNS-B3202LE

<b>Hikvision</b>	DS-2CD6362F-IVS, DS-2CD6332FWD-I, DS-2CD6332FWD-IV, DS-2CD6332FWD-IS, DS-2CD6332FWD-IVS, DS-2CD6362F-I, DS-2CD6362F-IV, DS-2CD6362F-IS
<b>Onvif</b>	Lilin IPS518
<b>Panasonic</b>	WV-SFN310, WV-SFN310J, WV-SFN311
<b>Watchnet</b>	MPIX-21DF

## FW upgrade:

<b>Fine</b>	ACM-V3103
<b>Sunell</b>	Generic
<b>Zavio</b>	F7210

## Multiple Stream Setting Supported:

<b>ACTi</b>	I92
<b>Axis</b>	P3214-V, P3215-V
<b>Fine</b>	ACM-V3103, ACM-V3002, TCP-HVB3100D, TCP-HVB3105D, ACM-R3002
<b>GNS</b>	GNS-A3101LE, GNS-A3253LE, GNS-B3202LE
<b>Hikvision</b>	DS-2CD6362F-IVS, DS-2CD6332FWD-I, DS-2CD6332FWD-IV, DS-2CD6332FWD-IS, DS-2CD6332FWD-IVS, DS-2CD6362F-IV, DS-2CD6362F-IS
<b>Onvif</b>	Lilin IPS518
<b>Panasonic</b>	WV-SFN310, WV-SFN310J, WV-SFN311
<b>Zavio</b>	F7210

## Notice:

1. Axis
  - a. P3214-V
    - i. Zoom speed setting does not support.(Camera limitation)
2. Dahua
  - a. IPC-HFW5302C
    - i. When framerate set to 1 and record dynamic picture, the picture's framerate may rise to 30 immediately.(Camera firmware issue)
    - ii. Zoom in/out will not run step by step, it will zoom to limit directly.(Camera firmware issue)
    - iii. DO can not trigger.(Camera firmware issue)

- iv. The range of parameter on camera will change by other parameter, parameter setting in VMS can't synchronize with camera.(Camera firmware issue)
  - v. Video parameter setting and rotate function may result in failure by Day/Night profile.(Camera firmware issue)
  - vi. Sometime parameter dialog will fail to get parameters with high resolution, framerate, and bitrate.(Camera performance limitation)
- b. SD52C220S-HN
- i. The range of parameter on camera will change by other parameter, parameter setting in our VMS can't synchronize with camera.(Camera firmware issue)
  - ii. The camera can't be search by auto detection function and UPnP tool.(Camera firmware issue)
  - iii. When framerate set to 1 and record dynamic picture, the picture's framerate may rise to 30 immediately.(Camera firmware issue)
  - iv. Video parameter setting and rotate function may result in failure by Day/Night profile.(Camera firmware issue)
  - v. Sometime parameter dialog will fail to get parameters with high resolution, framerate, and bitrate.(Camera performance limitation)
  - vi. The setting may fail when setting format from MJPEG to H.264.(Camera firmware issue)
  - vii. Audio and talk functions will fail with codec PCM.(Camera firmware issue)
3. Fine
- a. ACM-V3103
- i. Audio in can't work. (Camera firmware issue)
  - ii. RS-485 can't work. (Camera firmware issue)
  - iii. Alarm out can't work.(Camera firmware issue)
- b. TCP-HVB3100D, ACM-R3002, ACM-V3002 (Certificated by ACM-V3103)
- i. Refer to ACM-V3103 issues.
  - ii. The specification for ACM-V3103 are different from these certificate models, known issues are as below.
    - (1) Frame rate can't meet the maximum value.(Camera performance limitation)
    - (2) Not support zoom and focus.
- c. TCP-HVB3105D (Certificated by ACM-V3103)
- i. Refer to ACM-V3103 issues.
  - ii. The specification for ACM-V3103 is different from TCP-HVB3105D, known issue is as below.
    - (1) Frame rate can't meet the maximum value.(Camera performance limitation)

## 4. GNS

### a. GNS-A3101LE

- i. Camera search and autodetect do not function for this camera.(Camera firmware issue)
- ii. The camera does not support functions including DI, DO, PTZ, audio and talk.(Camera firmware issue)
- iii. The frame rate range is different from what the camera web shows.(Camera firmware issue)
- iv. Resolution 704x480 cannot be set.(Camera firmware issue)
- v. Video format cannot be switched.(Camera firmware issue)
- vi. The video parameters may not be synchronized with actual streaming.(Camera firmware issue)
- vii. Hue setting is not supported.(ONVIF limitation)

### b. GNS-A3253LE

- i. Can not switch video format.(Camera firmware issue)
- ii. Support at most 25 FPS in 1<sup>st</sup> stream.(Camera firmware issue)
- iii. Camera is unable to achieve maximum FPS.(Camera firmware issue)
- iv. Can't listen to the audio of camera.(Camera firmware issue)
- v. The FPS of stream2 always be 25 is MJPEG.(Camera firmware issue)
- vi. The autodetection and search function can't be work.(Camera firmware issue)

### c. GNS-B3202LE

- i. Some bitrate can't be set.(ONVIF limitation)

## 5. Hikivision

### a. DS-2CD6362F-IVS

- i. Not support MP2L2.(NUUO server limitation)
- ii. When audio codec is changed in webpage, audio in IP Camera 2, 3, 4, 5 can't use correct codec.(Camera firmware issue)
- iii. If stream mode is "Mode 2: Fisheye / 4 PTZ", the total number of connections is limited. Ex: If someone preview "Fisheye view", you are not permitted to preview "4 PTZ view".(Camera performance limitation)

## 6. Lilin

### a. IPS518

- i. The range of bitrate and frame may be different from what camera web shows.(Camera firmware issue)
- ii. Image setting, digital input, talk and motion detection do not function.(Camera firmware issue)
- iii. Zoom and focus do not function normally.(Camera firmware issue)

- iv. Video setting may not be synchronized to camera web.(Camera Firmware issue)
  - v. Audio is not available under TCP and UDP.(Camera performance limitation)
  - vi. Autodetection and camera search do not function.(Generic model)
  - vii. The camera supports 4 streams, while only 3 streams could be displayed.(NUUO server limitation)
  - viii. Some frame rates and bit rates cannot be set.(ONVIF limitation)
  - ix. Dependency between frame rate and bitrate is not shown.(ONVIF limitation)
  - x. Flip and mirror are not supported.(ONVIF limitation)
7. Panasonic
- a. WV-SFN310
    - i. Setting higher bitrate may be fail.(Camera firmware issue)
    - ii. When 60fps mode, H.264 (1) bitrate cannot be set less than 1024. (Camera performance limitation)
    - iii. No Audio when audio codec is AAC.(NUUO server limitation)
    - iv. Bitrate list range is not synchronize with web.(Camera firmware issue)
    - v. MJPEG framerate is affected by h264 stream. If h264 stream(1 or 2) open, MJPEG support 5 fps the most.(Camera performance limitation)
    - vi. Brightness value may not synchronize with web.(Camera firmware issue)
    - vii. Motion event snapshot resolution synchronize with stream3 instead of stream1.(Camera firmware issue)
8. Sunell
- a. Generic
    - i. The ranges of bitrate and framerate may be different from camera web.(Camera firmware issue)
    - ii. PTZ controls are not supported via ONVIF.(Camera firmware issue)
    - iii. Motion detection is not supported on MJPEG.(Camera performance limitation)
    - iv. Bitrate of actual streaming may be different from the setting.(Camera firmware issue)
    - v. Frame rate of actual streaming may be different from the setting.(Camera firmware issue)
9. Watchnet
- a. MPIX-21DF
    - i. The range of parameter on camera will change by other parameter, our parameter dialog can't synchronize with camera.(Camera firmware issue)
    - ii. The camera can't be search by auto detection function and UPnP tool.(Camera firmware issue)

- iii. When framerate set to 1 and record dynamic picture, the picture's framerate may rise to 30 immediately.(Camera firmware issue)
- iv. Video parameter setting and rotate function may result in failure by Day/Night profile.(Camera firmware issue)

## **Bug Fixed:**

### **[MainConsole]**

- 1. [Vivotek] - Block the edge record function for all unsupported model
- 2. [Mobotix] - Fix M10D disconnection issue.

### **[Crystal]**

- 1. [ONVIF] - Fix issue which was timeout failed to set ONVIF camera parameters.
- 2. [QVS] - Fix issue which was timeout failed to set QVS generic camera parameters.
- 3. [Messoa] - Fix the PTZ not working issue and PTZ config can't be setup issue.
- 4. [QVS] - Fix issue which was the camera profile has been add/delete in DP 3.10.
- 5. [Vivotek] - Fix the socket buffer issue of Mjpeg reciever

### **[Mini2]**

- 1. [Axis] - Fix DI/DO abnormal status from NC/NO setting.
- 2. [Vivotek] - Fix the socket buffer issue of Mjpeg reciever

### **[Titan]**

- 1. [Samsung] - Fix greying horrid problem of Samsung SND-6084R camera issue.
- 2. [Vivotek] - Fix the socket buffer issue of Mjpeg reciever

## Release Version v3.12.0 (2015/02/05)

### Modules:

Device Pack v 3.12.0

### Supported Systems:

Mainconsole	v 4.1.12 and above*
NVRmini 2	v 1.7.1 and above**
NVRsolo	v 1.1.1 and above**
Titan NVR	v 1.6.2 and above
NUUO Crystal™	v 2.0.3 and above

\*For Mainconsole multi stream and setting function, please upgrade to Mainconsole v5.0.0 and above first.

\*\*For NVRmini 2 and NVRsolo multi stream setting function, please upgrade to NVRmini 2/NVRsolo v2.0.0 and above first.

### New Camera Supported:

<b>Acti</b>	B27, B47, B61, B81
<b>D-Link</b>	DCS-7518
<b>Fine</b>	CDV-3VM800Z42, TCP-B365K, TCP-HDVB800Z42, TCP-M360K, TCP-MZ605

### FW upgrade:

<b>Axis</b>	M3004, M3025, P1354, P5544
<b>Brainchild</b>	CAM-335E
<b>Brickcom</b>	OSD-200A 20xp
<b>Dynacolor</b>	Generic (Z4SA-8)
<b>Fine</b>	CDV-5VM501Z3, TCP-VM559Z3
<b>Zavio</b>	B7210

### Multiple Stream Setting Supported:

<b>ACTi</b>	B27, B47, B61, B81
<b>Axis</b>	M3004, M3025, P1354, P5544
<b>BrainChild</b>	CAM-335E
<b>Brickcom</b>	OSD-200A 20xp

<b>Fine</b>	CDV-5VM501Z3, TCP-VM559Z3
<b>Zavio</b>	B7210

## Notice:

1. BrainChlid
  - a. CAM-335E
    - i. Camera is unable to achieve maximum FPS when Main or 2nd stream with high bitrate. (Camera performance limitation)
    - ii. Camera with high resolution and bitrate casues stream lag. (Camera performance limitation)
    - iii. After seting camera parameters, user cannot get video parameters and connect camera immediatly. (Camera performance limitation)
    - iv. Motion detecton doesn't work when first stream format is set to MJPEG. (Camera issue)
2. Brickcom
  - a. OSD-200A 20xp
    - i. Snapshot supported when one of stream chooses MJPEG. (Camera firmware issue)
    - ii. Error preset point. (Camera firmware issue)
3. Dlink
  - a. DCS-7518
    - i. Can not search the camera by UPnP. (Camera firmware issue)
    - ii. Talk function will fail with G.711 a-law. (Camera firmware issue)
    - iii. Camera video parameter of contrast will fail when set up to 9. (Camera firmware issue)
    - iv. The list of resolution and framerate is not synchronized with camera web. (Camera firmware issue)
4. DynaColor
  - a. Generic
    - i. Generic support model: W1-BA100, W2-BAZ40, W5-CDWK0, NH073, NH063
    - ii. Parameter setting will fail when mutistream is allow and resolution higher than 1080p.
    - iii. PT function are not test on software.
    - iv. The maximum resolution is depends on camera.
    - v. Camera (Z series) firmwave must be z120141215NSZ or above then can use generic model.
    - vi. Camera (W series) firmwave must be z120130417NSA or above then can use generic model.



- vii. Camera (X series) firmwave must be z120141027NSA or above then can use generic model.
5. Fine
- a. CDV-3VM800Z42
    - i. The camera with highest resolution and MJPEG is unable to achieve highest fps. (Camera firmware issue)
    - ii. If connect 2 or above streams, bitrate and frame rate will decrease. (Camera performance limitation)
  - b. CDV-5VM501Z3
    - i. PTZ could only support zoom and autofocus.
6. ZAVIO
- a. B7210
    - i. Setting will failed when setting the resolution to 640x360.(Camerat firmware issue)
    - ii. Camera is unable to achieve maximum FPS.(Camera performance limitation)
    - iii. Camera setting will fail randomly.(Camera firmware issue)

## Bug Fixed:

### [MainConsole]

- 1. [Vivotek] - Block the edge record function for all unsupported model
- 2. [Mobotix] - Fix M10D disconnection issue.

### [Crystal]

- 1. [ONVIF] - Fix issue which was timeout failed to set ONVIF camera parameters.
- 2. [QVS] - Fix issue which was timeout failed to set QVS generic camera parameters.
- 3. [Messoa] - Fix the PTZ not working issue and PTZ config can't be setup issue.
- 4. [QVS] - Fix issue which was the camera profile has been add/delete in DP 3.10.
- 5. [Vivotek] - Fix the socket buffer issue of Mjpeg reciever

### [Mini2]

- 1. [Axis] - Fix DI/DO abnormal status from NC/NO setting.
- 2. [Vivotek] - Fix the socket buffer issue of Mjpeg reciever

### [Titan]

- 1. [Samsung] - Fix greying horrid problem of Samsung SND-6084R camera issue.
- 2. [Vivotek] - Fix the socket buffer issue of Mjpeg reciever

## Release Version v3.11.0 (2015/01/05)

### Modules:

Device Pack v 3.11.0

### Supported Systems:

Mainconsole	v 4.1.12 and above*
NVRmini 2	v 1.7.1 and above**
NVRsolo	v 1.1.1 and above**
Titan NVR	v 1.6.2 and above
NUUO Crystal™	v 2.0.3 and above

\*For Mainconsole multi stream and setting function, please upgrade to Mainconsole v5.0.0 and above first.

\*\*For NVRmini 2 and NVRsolo multi stream setting function, please upgrade to NVRmini 2/NVRsolo v2.0.0 and above first.

### New Camera Supported:

<b>Acti</b>	E82
<b>Axis</b>	P1428-E
<b>Fine</b>	CDB-T5, CDV-DT5
<b>Forenix</b>	IPB-1080F28
<b>GNS</b>	GNS-A4102, GNS-3102LE
<b>Panasonic</b>	WV-SFN310, WV-SFN311, WV-SW158
<b>Sony</b>	SNC-ZB550
<b>Vivotek</b>	FD8169, IB8369
<b>WatchNET</b>	MPIX-30-VDV-IRM, MPIX-50BIMR
<b>Zavio</b>	D8210, Generic

### FW upgrade:

<b>Dlink</b>	DCS-6511
<b>Fine</b>	CDB-HD280, CDB-HFD828, CDV-3VM800-H, CDV-3VM800Z3, CDV-MV1080F-H, TCP-2200AM-H, TCP-2800AM, TCP-BF1080, TCP-BF828IR, TCP-HDVB800-H, TCP-HDVB800Z3, TCP-HP1080-H
<b>Samsung</b>	SNP-6200RH
<b>Zavio</b>	B8210

## Multiple Stream Setting Supported:

<b>ACTi</b>	E82
<b>Axis</b>	P1428-E
<b>Fine</b>	CDB-HD280, CDB-HFD828, CDB-T5, CDV-DT5, CDV-3VM800-H, CDV-3VM800Z3, CDV-MV1080F-H, TCP-2200AM-H, TCP-2800AM, TCP-BF1080, TCP-BF828IR, TCP-HDVB800-H, TCP-HDVB800Z3, TCP-HP1080-H
<b>GNS</b>	GNS-A4102, GNS-3102LE
<b>Panasonic</b>	WV-SFN310, WV-SFN311, WV-SW158
<b>Samsung</b>	SNP-6200RH
<b>Sony</b>	SNC-ZB550
<b>Vivotek</b>	FD8169, IB8369
<b>Zavio</b>	B8210, D8210

## Notice:

1. ACTi
  - a. E82
    - i. Actually camera bitrate may exceed configured value. (Camera firmware issue)
    - ii. Main console Flip/mirror checkbox not synchronize with Web interface. (NUUO server limitation)
2. DLink
  - a. DCS-6511
    - i. PTZ only support zoom and focus
    - ii. When Changing format to MPEG4, the resolution "176x144" will be kept even though it is not supported under MPEG4. (Camera firmware issue)
    - iii. Camera is unable to achieve maximum FPS. (Camera performance limitation)
3. Fine
  - a. CDB-T5
    - i. Only audio can be exported while selecting MOV format in playback system. (NUUO server limitation)
  - b. CDV-DT5
    - i. Camera is unable to achieve maximum FPS. (Camera performance limitation)
    - ii. Main console Flip/mirror checkbox not synchronize with Web interface. (NUUO server limitation)
4. GNS
  - a. GNS-A4102
    - i. Can not switch video format. (Camera issue)

- ii. The maximum FPS can only achieve 25 FPS (Camera issue)
  - iii. Can't listen to the audio of camera. (Camera issue)
- 5. Panasonic
  - a. WV-SFN310
    - i. It may have chance to fail to set higher bitrate (Cammera firmware issue)
    - ii. When setting to 60fps, H.264(1) bitrate cannot be set less than 1024 (Cammera firmware issue)
    - iii. When setting flip, flip option still shows unchecked (Cammera firmware issue)
  - b. WV-SW158
    - i. Mirror is not supported (Camera firmware issue)
    - ii. It may have chance to fail to set higher bitrate (Cammera firmware issue)
- 6. WatchNet
  - a. MPIX-30-VDV-IRM
    - i. The range of parameter on camera will be changed by other parameter setting, thus our parameter dialog can't synchronize with camera.(Camera firmware issue)
    - ii. Not support Zoom and Focus.(Camera firmware issue)
    - iii. Not support UPnP search.(Camera firmware issue)
    - iv. Not support Auto Detection.(Camera firmware issue)
    - v. The range of bitrate and value are different from camera web under MJPEG.(Camera firmware issue)
    - vi. Get camera config will be failed when triple stream are MJPEG with highest parameter.(Camera performance limitation)
  - b. MPIX-50BIMR
    - i. The range of parameter on camera will be changed by other parameter setting, our parameter dialog can't synchronize with camera.(Camera firmware issue)
    - ii. Not support UPNP search.(Camera firmware issue)
    - iii. Not support Auto Detection.(Camera firmware issue)
    - iv. Audio in with 16 KHz sampling rate is not supported.
    - v. PCM in audio format can't be used.(Camera firmware issue)
    - vi. Sub stream can't be used in MJPEG.(Camera firmware issue)
- 7. Vivotek
  - a. FD8169, IB8369
    - i. Video parameter's range (brightness & contrast) is displayed incorrectly. (Camera firmware issue)
- 8. Zavio
  - a. Generic Model
    - i. It may fail to set Profile 2 to 1920x1080 or 1280x720. (Camera Firmware Issue)

- ii. Not support to set profile 3 to 1920x1080 or 1280x720; while the setting is supported in camera web. (Camera Firmware Issue)
9. Samsung
- a. Camera is unable to achieve maximum FPS with high quality / bitrate. (Camera performance limitation)

## **Bug Fixed:**

### **[MainConsole]**

1. [Axis] - Fix DO function logic when using normal open.
2. [Santec] – Support setting “Home” point to specific preset point which user chooses.
3. [Panasonic] – Fix issue about preset list disappear after Main Console reboot.

## Release Version v3.10.0 (2014/12/05)

### Modules:

Device Pack v 3.10.0

### Supported Systems:

Mainconsole	v 4.1.12 and above*
NVRmini 2	v 1.7.1 and above**
NVRsolo	v 1.1.1 and above**
Titan NVR	v 1.6.2 and above
NUUO Crystal™	v 2.0.3 and above

\*For Mainconsole multi stream and setting function, please upgrade to Mainconsole v5.0.0 and above first.

\*\*For NVRmini 2 and NVRsolo multi stream setting function, please upgrade to NVRmini 2/NVRsolo v2.0.0 and above first.

### New Camera Supported:

<b>Acti</b>	KCM5511 , I71
<b>D-Link</b>	DCS-6212L ,
<b>Fine</b>	TCP-MB685
<b>Flir</b>	FC-348S-NTSC ,FC-309,FC-313,FC,334,FC-334S,FC-324,FC-324S,FC-363, FC-618-R-NTSC, FC-690S
<b>GNS</b>	FC-669S,FC-645S,FC-632S.
<b>Samsung</b>	GNS-C1201L,GNS-C3203LE
<b>Sony</b>	SNP-6320H, SNB-6004 , SND-6084
<b>Sunell</b>	SNC-VB630
<b>VisionHitech</b>	SN-IPC55/20EDN , SN-IPD54/12VDN VPD202BM2Ti-IR

### FW upgrade:

<b>Acti</b>	KCM5511 , I71
<b>Dlink</b>	DCS-3511, DCS-6116, DCS-7517
<b>Fine</b>	WB-H814, TCP-MZ602, TCP-MB602, CDV-MD602, CDB-MD602,
<b>Samsung</b>	SNB-6004 , SND-6084

<b>Sony</b>	SNC-VB630
<b>Zavio</b>	D4210, D4211

## Multiple Stream Setting Supported:

<b>Samsung</b>	SNP-6320H, SNB-6004, SND-6084
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## Notice:

1. ACTi
  - a. I71
    - i. Camera automatically restarted when it received too many upnp broadcasts in the same domain. (Camera firmware issue)
  - b. KCM-5511
    - i. In dual mode, when the FPS setting for 2nd stream is 20, it actually will get false value (30). (Camera firmware issue)
    - ii. In single mode, the resolution N1920x1080 in video format H264 actually display N1920x1072. (Camera firmware issue)
    - iii. In dual mode, when the stream 1 video format setting changed, some setting of stream 2 will changed, too. It makes CGI returned wrong stream2 resolution value. (Camera limitation issue)
2. Dlink
  - a. DCS-3511
    - i. The camera with low bitrate is unable to achieve max framerate and is easily disconnected.
    - ii. The camera with highest quality and resolution is unable to achieve 30 fps
    - iii. The PTZ Preset Home could not be worked.
  - b. DCS-6116
    - i. Talk function only support G.711 mu-law.(Camera firmware issue)
    - ii. Camera is unable to achieve maximum FPS when Main or 2nd stream with high bitrate. (Camera performance limitation).
  - c. DCS-7517
    - i. Bitrate cannot be set to 8Mbps. (Camera firmware issue)
    - ii. Audio function only support G.711. (Camera firmware issue)
    - iii. Talk function could not be worked. (Camera firmware issue)
    - iv. DI could not be worked. (Camera firmware issue)
3. GNS

- a. GNS-C1201L
  - i. Audio only support G7.11. (Camera firmware issue)
- b. GNS-C3203LE
  - i. DO cannot be triggered. (Camera firmware issue)
  - ii. Motion cannot be triggered when video format is MJPEG. (Camera firmware issue)
  - iii. If change mode to corridor 90 or 270, the information of stream 3 is incorrect and stream 3 can not connect. (Camera firmware issue)
  - iv. Camera is unable to achieve FPS when 3 streams are connecting. (Camera performance limitation)
- 4. Samsung
  - a. SND-6084
    - i. The camera with higher quality and resolution is unable to achieve 30 fps (Camera performance issue)
- 5. Sunell
  - a. SN-IPD54/12VDN
    - i. The snapshot function cannot be used.(Camera firmware issue)
    - ii. The PTZ function cannot be used on camera web.(Camera firmware issue)
    - iii. Some framerate and bitrate cannot be set due to Onvif restriction.(Camera firmware issue)
    - iv. Due to Onvif restriction, some frame rate and bit rates cannot be set .(Camera firmware issue)
    - v. [NAS]Audio only support G.711 mu-law.(NUUO server limitation)
  - b. SN-IPC55/20EDN
    - i. The streaming has been image broken under MJPEG.(Camera firmware issue)
    - ii. The PTZ function cannot be used.(Camera firmware issue)
    - iii. Some framerate and bitrate cannot be set due to Onvif restriction.(Camera firmware issue)
    - iv. Some framerate and bitrate cannot be set due to Onvif restriction.(Camera firmware issue)
    - v. [NAS]Audio only support G.711 mu-law.(NUUO server limitation)
- 6. Flir
  - a. FC-348-NTSC, FC-618-NTSC
    - i. When bitrate setting higher than 1Mbps, the RTSP is disconnected.
    - ii. Sometimes it is failed to change the encoding setting after camera connected for a long time. The setting at web client and onvif interface were not be changed.
    - iii. Cannot get the I/O status by Onvif interface
    - iv. Camera search function is disabled due to onvif command is timeout.



- v. Auto detection is disabled due to Onvif command is timeout.
- 7. VisionHitech
  - a. VPD202BM2Ti-IR
    - i. In triple mode, bitrate of 2<sup>nd</sup> stream cannot be reached to 500kbps. (Camera limitation issue)
    - ii. [NAS] Snapshot only support when 2<sup>nd</sup> stream format is MJPEG. (Camera limitation issue)

## **Bug Fixed:**

### **[MainConsole]**

1. [Brickcom] - Fixed the bug that it won't set dual streams' setting when multistream is disabled.
2. [Hikvision] - Fixed Hikvision video server for disconnected issue.
3. [Fine] - Fixed WB-H811 PTZ mode from step-by-step to continuous.
4. [ACTi] - Fixed the ADC2100 for patrol disabled issue
5. [Axis] - Fixed DO function logic issue when using normal open.
6. [Arecont] - Fixed Arecont Generic model for consuming 4 licenses issue.

### **[NVRMini2]**

1. [Onvif] - Fixed the memory leak in the event handling.
2. [Onvif] - Fixed the resource leak issue. The leak may lead to login failure.
3. [Onvif] - Fixed the hang in NVR event page issue.

### **[NVRSolo]**

1. [Onvif] - Fixed the memory leak in the event handling.
2. [Onvif] - Fixed the resource leak issue. The leak may lead to login failures.
3. [Onvif] - Fixed the hang in NVR event page issue.

### **[NVRTitan]**

1. [Onvif] - Fixed the memory leak in the event handling.
2. [Arecont] - Fixed the disconnected dual stream issue after upgraded from DP 3.2 into DP 3.7
3. [Onvif] - Fixed the resource leak issue. The leak may lead to login failed.

### **[Crystal]**

1. [Onvif] - Fixed the memory leak in the event handling.
2. [Arecont] - Fixed the disconnected dual stream issue after upgraded from DP 3.2 into DP 3.7
3. [Onvif] - Fixed the resource leak issue. The leak may lead to login failed.

## Release Version v3.9.0 (2014/11/05)

### Modules:

Device Pack v 3.9.0

### Supported Systems:

Mainconsole	v 4.1.12 and above*
NVRmini 2	v 1.7.1 and above**
NVRsolo	v 1.1.1 and above**
Titan NVR	v 1.6.2 and above
NUUO Crystal™	v 2.0.3 and above

\*For Mainconsole multi stream and setting function, please upgrade to Mainconsole v5.0.0 and above first.

\*\*For NVRmini 2 and NVRsolo multi stream setting function, please upgrade to NVRmini 2/NVRsolo v2.0.0 and above first.

### New Camera Supported:

<b>Basler</b>	BIP2-1600-25c-dn
<b>Canon</b>	VB-S30D , VB-S31D , VB-S800D , VB-S900F , VB-S905F , VB-S805D
<b>D-Link</b>	DCS-7110A3
<b>Flir</b>	FC-348S , FC-309, FC-313, FC-334, FC-334S, FC-324, FC-324S ,FC-363
<b>Forenix</b>	IPB-1080E , IPX-1080E, IPD-1080E, IPV-1080E, IPD-1080MF, IPV-1080F, IPD-1080KF, IPB-1080F, IPT-1080F, IPM-1080F, IPM-1080RF
<b>GNS</b>	GNS-A3263LE
<b>LevelOne</b>	SDK8
<b>Netgear</b>	HMNC500
<b>Sactec</b>	SNC-311FEIF , SNC-311FBIF , SNC-311RBIA , SNC-311RDIA, SNC-311RINA
<b>Sony</b>	SNC-XM631, SNC-EB632R , SNC-EB602R
<b>VisionHitech</b>	NVS202
<b>Vitek</b>	VTD-MVZN39
<b>Zavio</b>	P6211

### FW upgrade:

**Brainchild** CAM-335 (FW: 0.0.40.169)

<b>D-Link</b>	DCS-7110B1 (FW: 3.00.04)
<b>Fine</b>	WB-H811 (FW: 1.0.44)
<b>Zavio</b>	P6210 (FW: M2.1.5.11)

## Multiple Stream Setting Supported:

<b>Sony</b>	SNC-XM631, SNC-EB632R , SNC-EB602R
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## Notice:

1. Basler
  - a. BIP2-1600-25c-DN
    - i. The I/O number is "0" in onvif/onvif (Camera Firmware Issue)
    - ii. There is only one stream profile in onvif/onvif (Camera firmware issue)
    - iii. MPEG4 in onvif/onvif is not supported. (Camera firmware issue)
    - iv. Motion is not supported. (Camera firmware issue)
    - v. Audio is not supported but the software could show enable/disabe audio option (Camera firmware issue)
    - vi. The list of camera Resolution could not be synchronized with camera's web. (Camera firmware issue)
    - vii. Video disabled when FPS  $\geq 2$ (Camera firmware issue)
    - viii. The list of camera Framerate could not be synchronized with camera's web. (Camera firmware issue)
    - ix. Http is not supported but software could show http option at protocol setting(NUUO software limitation)
    - x. Video streaming Cannot be connected if RTSP port is changed (Camera firmware issue)
    - xi. It Cannot be changed format from H.264 to MJPEG when quality value is bigger than 100 on NuClient (NuClient 2.1 ver. Known issue)
    - xii. Sometimes NuClient shows error message after chaging the camera setting. (Camera performance limitation)
  2. Brainchild
    - a. CAM-335E
      - i. Camera is unable to achieve maximum FPS when Main or 2nd stream with high bitrate. (Camera performance limitation)
      - ii. Camera with high resolution and bitrate would cause stream lag. (Camera performance limitation)

- iii. After setting the camera parameters , user cannot get video parameters and connect to camera immediately. (Camera performance limitation)
  - iv. Motion detecton cannot be worked when the first stream format is MJPEG.(Camera issue)
  - v. When stream mode is set to Dual H264, The framerate of stream2 is limited to 20fps (Camera issue)
  - vi. Wrong quality/bitrate list would be showed on NuClient (NuClient 2.1 ver. Known issue)
3. Canon
- a. VB-S30D
    - i. PTZ is disabled.
    - ii. The video parameters of the camera cannot be configured with IP+.
  - b. VB-S905F
    - i. The range of video parameters are difference between camera web and onvif responded.
  - c. VB-S800D
    - i. The range of video parameters are difference between camera web and onvif responded.
4. D-link
- a. DCS-7110A3
    - i. The list of resolution 176x144 cannot be synchronized with web (Camera firmware issue)
  - b. DCS-7110B1
    - i. The framerate list would not be synchronize with the resolution (Camera firmware issue)
5. Fine
- a. CDV-5VM501Z3
    - i. PTZ could only support zoom and autofocus.
6. Flir
- a. FC-348-NTSC
    - i. The Quality/Bitrate/Framerate range from web client cannot be synchronized to Onvif interface.
    - ii. Both CGI/Onvif command response time are too long.
    - iii. It takes too long to set the stream setting.
    - iv. Cannot get the motion information by onvif interface (pull message or metadata).
    - v. The rtsp connection is disabled with the high framerate setting

7. Forenix
  - a. IPB-1080E
    - i. There is the noise in Audio.(Camera firmware issue)
8. GNS
  - a. A3263LE
    - i. The video format Cannot be switched. (Camera issue)
    - ii. It can be Supported at most 25 FPS in 1st stream. (Camera issue)
    - iii. Camera is unable to achieve maximum FPS. (Camera issue)
    - iv. It need more time for Camera to recover while changing video format and resolution. (Camera issue)
    - v. Cannot delete preset point via RS485. (Camera issue)
9. Netgear
  - a. HMNC500
    - i. When set FPS to 6~9, Camera would achieve maximum FPS.(Camera firmware issue)
    - ii. Quality options for CBR mode is disabled. (Camera firmware issue)
    - iii. Motion is disabled. (Camera firmware issue)
    - iv. Search is disabled because the camera returned name is wrong. (Camera firmware issue)
10. VisionHitech
  - a. NVS202
    - i. It only support Snapshot when main stream is in MJPEG format. (Camera Limitation Issue)
    - ii. Transfer camera to different network segment will lead upnp search failed until update the camera IP in 24 hours. (Camera Limitation Issue)
    - iii. Bitrate setting cannot be set more than 2M bps when camera is 960H with H.264 format. (Camera Firmware Issue)
11. Zavio
  - a. P6210
    - i. Stream 2 setting would be failed when resolution of Profile3 is 1920x1080 and 1280x720. (Camera Firmware Issue)
    - ii. The camera with higher quality and MJPEG format is unable to achieve 30 fps. (Camera Firmware Issue)
12. Santec
  - a. SNC-311FEIF

- i. The format setting would be failed when changing from MJPEG to H.264. (Camera firmware issue)
  - ii. The network multicast setting must be checked when changing the HTTP port. (Camera performance limitation)
  - iii. UPNP is not supported until camera return the right information. (Camera firmware issue)
  - iv. The stream config of any Code-Stream Type must be the same when using event function. (Camera performance limitation)
  - v. The permitted parameter list on camera would be changed by other parameters, the parameter dialog cannot be synchronized with camera. (Camera firmware issue)
  - vi. Reaction would be slow when motion detection is triggered. (Camera performance limitation)
  - vii. Playback cannot be exported with mov format. (Camera performance limitation)
- b. SNC-311RBIA
- i. The format setting would be failed when it changed from MJPEG to H.264. (Camera firmware issue)
  - ii. The network multicast setting must be checked when changing the HTTP port. (Camera performance limitation)
  - iii. UPNP not support until camera return the right information. (Camera firmware issue)
  - iv. The stream config of any Code-Stream Type must be the same when using event function. (Camera performance limitation)
  - v. The permitted parameter list on camera will be changed by other parameters, our parameter dialog can't synchronise with camera. (Camera firmware issue)
  - vi. Slowl reaction when motion detection is triggered. (Camera performance limitation)

## **Bug Fixed:**

### **[MainConsole]**

1. [Sunell] – Fixed the disconnection issues. Mainconsole without LAN connection would hang on and windows will display a message that Mainconsole is not responding.
2. [QVS] – Fixed the crash issue when connecting under multi-stream.
3. [Onvif] - Fixed some Onvif/Onvif camera which only support PullPoint method will fail to trigger MD/IO due to lack of WSA header.

### **[NVRMini2]**

1. [Sony] - Fixed Sony SNC-XM632 randomly disconnection issues.

2. [Onvif] - Fixed some Onvif/Onvif camera which only support PullPoint method would fail to trigger MD/IO due to lack of WSA header

## **[NVRSolo]**

1. [Sony] - Fixed Sony SNC-XM632 randomly disconnection issues.
2. [Onvif] - Fixed some Onvif/Onvif camera which only support PullPoint method would fail to trigger MD/IO due to lack of WSA header

## **[NVRTitan]**

1. [Sony] - Fixed Sony SNC-XM632 randomly disconnection issues.
2. [Onvif] - Fix some Onvif/Onvif camera which only support PullPoint method would fail to trigger MD/IO due to lack of WSA header

## **[Crystal]**

1. [Sony] - Fixed Sony SNC-XM632 randomly disconnection issues.
2. [Onvif] - Fix some Onvif/Onvif camera which only support PullPoint method would fail to trigger MD/IO due to lack of WSA header

## Release Version v3.8.0 (2014/10/06)

### Modules:

Device Pack v 3.8.0

### Supported Systems:

Mainconsole	v 4.1.12 and above*
NVRmini 2	v 1.7.1 and above**
NVRsolo	v 1.1.1 and above**
Titan NVR	v 1.6.2 and above
NUUO Crystal™	v 2.0.3 and above

\*For Mainconsole multi stream and setting function, please upgrade to Mainconsole v5.0.0 and above first.

\*\*For NVRmini 2 and NVRsolo multi stream setting function, please upgrade to NVRmini 2/NVRsolo v2.0.0 and above first.

### New Camera Supported:

<b>Axis</b>	Q1614, Q1615 , P3363
<b>D-Link</b>	DCS-5222LB2, DCS-2230L, DCS-2210L, DCS-2103 B1
<b>Eneo</b>	PXD-2030PTZ1080
<b>Fine</b>	SP-HP2330C-IP, SP-HP2336Q-IP, SP-HP2030Q-IP
<b>Forenix</b>	ISPDIII-3010
<b>Guardeon</b>	Generic
<b>Innotech</b>	EXCA100IP2, EXCA215IP2, EXCA336IP2, EXCA234IP2,EXCA234IP2WDR
<b>Jetstor</b>	JV-OSD0200-X20
<b>MIWI – URMET</b>	HD-PRO370W , HD-PRO370WOUT , HD-PRO350DNW , HD-PRO350DNW/H HD-PRO350DNW/IR , HD-PRO350DNW/IR/H, HD-PRO351DNW/H HD-PRO351DNW/IR/H , HD-PRO750DNW , HD-PRO750DNW/IR HD-PRO352DNW,HD-PRO352DNW/IR , HD-PRO410DNW/H HD-PRO410DNW/H-POE, HD-PRO810DNW/H , HD-PRO810DNW/H/M HD-PRO310DNW,HD-PRO610DNW ,HD-PRO710DNW, HD-PRO332DNW HD-PRO392DNW/V ,HD-PRO692DNW/V/IR, HD-PRO302DN, HD-PRO890 HD-PRO890/OUT , HD-PRO518DN
<b>Netgear</b>	HMNC100
<b>Secubest</b>	RIN-0012N, RIN-0012P , FBN-D101N , FBN-D101P , PSN-1012N ,



<b>QVS</b>	PSN-1012P , PSSN-1012N , PSSN-1012P , Generic
<b>Vision Hitech</b>	M2TiA, VISION VN7XSM2Ti-IR,VD10M2, VN10M2 , VISION VDA101SM2Ti,VN6XSM2Ti-IR, VISION VPD101PM2Ti
<b>Viakom</b>	AVX931
<b>Vista</b>	VK2-1080BIR3V9F, VK2-1080XVRDPTZ
<b>Vitek</b>	VTC-IR62NZ

## FW upgrade:

<b>D-Link</b>	DCS-5222LB1 (FW: 2.01.05)
<b>Everfocus</b>	EHN3260
<b>Fine</b>	TCP-HDVB800Z3(FW: VC 2.0.22.6), CDV-3VM800Z3(FW: VC 2.0.22.6)
<b>QVS</b>	Generic(FW: v1.8.0601.1001.110.0.36.1.0)
<b>Vitek</b>	VT-PTZ220NP(FW: v4.25-173-ds), VTC-IR402(FW: v4.27-033)
<b>VisionHitech</b>	M2TiA(FW:VISION_2014.09.10_v.1.1.5.19)
<b>Zavio</b>	F3215(FW:M2.1.6.05C016)

## Multiple Stream Setting Supported:

<b>Sony</b>	SNC-ER580, SNC-CH160, SNC-DH110, SNC-DH220
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## Notice:

1. Netgear
  - a. HMNC100
    - i. When setting FPS to 6~9, Camera will achieve maximum FPS. (Camera firmware issue)
    - ii. Bitrate setting is not work. (Camera firmware issue)
    - iii. Camera UPNP search failure. (Camera firmware issue)
    - iv. No quality options in VBR mode. (Camera firmware issue)
    - v. Motion are not supported. (Camera firmware issue)
2. Vitek
  - a. VTC-IR62NZ
    - i. Disable talk function.(Camera firmware issue)
    - ii. Only support rtsp port 554.(Camera firmware issue)

- iii. The function that send snapshot to FTP is only supported by MJPEG format. (Camera firmware issue)
- iv. The actual framerate may not reach the setting value under high resolution and quality configuration. (Camera performance limitation)
- v. UPnP search are not supported.(Camera firmware issue)

b. VTC-IR402

- i. The function that send snapshot to FTP is only supported by MJPEG format.(Camera firmware issue)
- ii. Only support rtsp port 554.(Camera firmware issue)
- iii. The actual framerate may not reach the setting value under high resolution and quality configuration. (Camera performance limitation)
- iv. Brightness, contrast and saturation are not supported.(Camera firmware issue)
- v. UPnP search are not supported.(Camera firmware issue)

c. VT-PTZ220NP

- i. Talk function is invalid.(Camera firmware issue)
- ii. Only support rtsp port 554.(Camera firmware issue)
- iii. The function that send snapshot to FTP is only supported by MJPEG format. (Camera firmware issue)
- iv. Preset, preset name and ptz speed can't synchronize to camera web.
- v. UPnP search are not supported.(Camera firmware issue)
- vi. Only integrate NTSC mode.
- vii. Audio will be discontinuous under fps 1.(Camera performance issue)
- viii. The actual framerate may not reach the setting value under high resolution and quality configuration. (Camera performance issue)
- ix. Brightness, contrast and saturation are not supported. (Camera firmware issue)

3. Vista

a. VK2-1080BIR3V9F

- i. Cannot setup the resolution to 1280x1024 and 1280x720 of Stream2 when the resolution of Stream 1 is 1920x1080. (Camera firmware issue)
- ii. Cannot setup the resolution to 1920x1080 and 1280x720 of Stream2 when the resolution of Stream 1 is 1280x1024. (Camera firmware issue)
- iii. Cannot setup the resolution to 1920x1080 and 1280x1024 of Stream2 when the resolution of Stream 1 is 1280x720. (Camera firmware issue)
- iv. Cannot setup the resolution to "Same as Stream 1" when the resolution of Stream 1 is equal to Stream 2. (Camera firmware issue)

- v. Camera is unable to achieve maximum 25 FPS. (Camera firmware issue)
- 4. Axis
  - a. Q1614 and Q1615
    - i. Max frame rate show 60 regardless of Axis Capture mode. (Camera firmware issue)
- 5. QVS
  - a. Generic
    - i. Audio in with Raw PCM codec are not supported.(Camera firmware issue)
    - ii. Home function are not supported. (Camera firmware issue)
    - iii. The streaming has broken under MJPEG format.(Camera firmware issue)
    - iv. Due to Onvif restriction, some frame rate and bit rates cannot be set.(Camera performance limitation)
- 6. Innotech
  - a. EXCA100IP2
    - i. Due to Onvif restriction, some frame rate and bit rates cannot be set.(Camera firmware issue)
    - ii. motion event is not supported under MJPEG format.(Camera firmware issue)
- 7. Dlink
  - a. DCS-2230L
    - i. The talk function is invalid.(Camera firmware issue)
- 8. Guardeon
  - a. Generic
    - i. Camera will be rebooted (60 seconds) after parameter configuration. (Camera performance limitation)
    - ii. 16 KHz sampling rate audio in are not supported.
    - iii. Camera search is not supported. (Camera firmware issue)
    - iv. The camera setting will be failed if choose the value "BOTH".(Camera firmware issue)
    - v. Camera cannot be connected when 2nd resolution set to 854\*480. (Camera firmware issue)
    - vi. The default value of brightness should be 50. (Camera firmware issue)
- 9. Eneo
  - a. PXD-2030PTZ1080
    - i. High quality caused the fps lower.(Camera limitation issue)
- 10. Forenix
  - a. ISPDIII-3010

- i. Fps and resolution list is not synchronized with the camera web due to onvif protocol mechanism. (Camera limitation issue)
- ii. Talk(audio out) are not supported due to there is no implementation mechanism from sdk document. (Camera issue)

## 11. VisionHitech

### a. VN7XSM2Ti-IR

- i. Snapshot are not supported due to camera limitation with 2nd stream format set to MJPEG. (Camera limitation issue)
- ii. Brightness setting is not synchronized with camera web. (Camera limitation issue)

### b. M2TiA (Cover VD102SM2Ti-IR, VN200SM2Ti-IR models)

- i. Snapshot are not supported due to camera limitation with 2nd stream format set to MJPEG. (Camera limitation issue)
- ii. Brightness setting is not synchronized with camera web. (Camera limitation issue)
- iii. When resolution of main stream is VGA, resolution of 2nd stream is not synchronized with camera web. (Camera firmware issue)

## 12. Zavio

### a. F3215

- i. Resolution list is not synchronized with camera web due to resolution setting limitation. (Camera limitation issue)

## 13. EverFocus

### a. EHN3260

- i. CBR mode is not supported.(Camera firmware limitation)
- ii. It will lose parameters of stream2 and stream3 if disable stream2 and stream3 on camera web.(Camera firmware limitation)

## Bug Fixed:

### [MainConsole]

1. [ONVIF] - Fixed the bug that the motion issue of ONVIF models in combining messages in the parsing motion message process.
2. [ACTi] – Fixed the crash issue.
3. [RIVA] – Fixed the bug that the RIVA 3502-HD disconnection issue.
4. [Fine] – Fixed the bug that the model for FINE TCP-VM559 , CDB-5VM551 , TCP-MH859 , CDV-P360-5 disconnection issue.
5. [D-link]- Fixed the bug that the DCS-2132LB1 unable talk option. (But sometimes camera talk is not worked casued by firmware issue)

6. [AXIS] – Fixed the bug that AXIS 206 disconnection issue.

## **[NVRMini2]**

1. [VisionHitech] – Fixed the bug that the NVS102 Preset Go function.
2. [Sunell] - Fixed the bug that the motion issues of Sunell generic models in motion message tag names are no matched for some camera firmware versions.
3. [Sunell] - Fixed the bug that motion issues of Sunell generic models in the multiple network interface controller.
4. [AXIS] –Fixed the bug that AXIS 206 disconnection issue.

## **[NVRSolo]**

1. [VisionHitech] - Fixed the bug that the NVS102 Preset Go function.
2. [Sunell] - Fixed the bug that the motion issues of Sunell generic models in motion message tag names are no matched for some camera firmware versions.
3. [Sunell] - Fixed the bug that motion issues of Sunell generic models in the multiple network interface controller.
4. [AXIS] –Fixed the bug that AXIS 206 disconnection issue.

## **[NVRTitan]**

1. [Sunell] - Fixed the bug that the motion issues of Sunell generic models in motion message tag names are no matched for some camera firmware versions.
2. [Sunell] - Fixed the bug that motion issues of Sunell generic models in the multiple network interface controller.
3. [AXIS] –Fixed the bug that AXIS 206 disconnection issue.

## **[Crystal]**

1. [Sunell] - Fixed the bug that the motion issues of Sunell generic models in motion message tag names are no matched for some camera firmware versions.
2. [Sunell] - Fixed the bug that motion issues of Sunell generic models in the multiple network interface controller.
3. [AXIS] –Fixed the bug that AXIS 206 disconnection issue.

## Release Version v3.7.0 (2014/9/09)

### Modules:

Device Pack v 3.7.0

### Supported Systems:

Mainconsole	v 4.1.12 and above*
NVRmini 2	v 1.7.1 and above**
NVRsolo	v 1.1.1 and above**
Titan NVR	v 1.6.2 and above
NUUO Crystal™	v 2.0.3 and above

\*For Mainconsole multi stream and setting function, please upgrade to Mainconsole v5.0.0 and above first.

\*\*For NVRmini 2 and NVRsolo multi stream setting function, please upgrade to NVRmini 2/NVRsolo v2.0.0 and above first.

### New Camera Supported:

<b>ACTi</b>	E97
<b>Arecont Vision</b>	AV12186DN
<b>Axis</b>	M1025, P3384
<b>Bosch</b>	VIP X16 XF E
<b>Brickcom</b>	PH-100ah, VS-04A v2
<b>D-Link</b>	DCS-2310LB1, DCS-6116, DCS-6915B1
<b>Fine</b>	ACM-V3002, ACM-R3002, ACM-PT500, CDV-3F828, CDV-5VM501Z3, TCP-VM559Z3
<b>LG</b>	LND7210, LND7210R, LNV7210, LNV7210R, LNU7210R
<b>Lilin</b>	IPD2322, LD2222

### FW upgrade:

<b>D-Link</b>	DCS-3010(FW: v1.12.07)
<b>Fine</b>	EP-Q2036HW-IP(FW: V1.0.46)
<b>Sony</b>	SNC-CH160 (FW 1.82), SNC-DH110 (FW 1.82), SNC-DH220 (FW1.82), SNC-RH124 (FW 1.84)
<b>Vitek</b>	VT-20VN-M(FW: v4.24-B3), VTC-IR402(FW: v4.24-B3)

**Zavio** B8210( FW: M201.0\_M2.8.8)

## Multiple Stream Setting Supported:

**Sony** SNC-ER580, SNC-CH160, SNC-DH110, SNC-DH220

### Notice:

1. ACTi
  - a. E97
    - i. The actual framerate may not reach the setting value under high resolution and quality configuration. (Camera performance limitation)
    - ii. The 2<sup>nd</sup> stream's actual bitrate is higher than settings.(Camera firmware issue)
    - iii. The function "send mail by event" might fail to attach snapshot under high resolution (NUUO server limitation)
    - iv. The motion signal would not stop when disabling motion event if the motion has been triggered. (NUUO server limitation)
2. Bosch (Mainconsole IP+)
  - a. VIP X16 XF E
    - i. Only support G.711 audio codec. (Camera performance limitation)
    - ii. Snapshot resolution is not correspond to existing profile. (Camera firmware issue)
    - iii. Multi stream setting might fail due to the limitation of inter-streaming dependency. (NUUO Server limitation)
3. BrainChild
  - a. CAM-335E
    - i. Camera is unable to achieve maximum FPS under main or 2<sup>nd</sup> stream with high bitrate. (Camera performance limitation)
    - ii. High resolution and bitrate would cause stream latency. (Camera performance limitation)
    - iii. After setting camera parameters , NUUO server cannot get video parameters and connect camera immediately (Camera performance limitation)
    - iv. If setting video and audio at the same time, the changed configuration wouldn't apply to stream (Camera firmware issue)
    - v. MJPEG quality value on camera web is different from the value NUUO server display (Camera firmware issue)
    - vi. Motion detection does not work when main stream's format is MJPEG (Camera Issue)

4. Dlink
  - a. DCS-6116
    - i. Some resolution are not synchronized with camera web. (Camera firmware issue)
    - ii. Cannot setup from 13fps to 25fps. (Camera firmware issue)
    - iii. Cannot setup resolution under 720x480. (Camera firmware issue)
  - b. DCS-3010
    - i. Stream would disconnect and motion would not be triggered due to camera limited performance. (Camera firmware issue)
  - c. DCS-2310LB1
    - i. Control mode of resolution, framerate, bitrate cannot be changed under H.264 format. (Camera firmware issue).
    - ii. The name of this camera in search window will show as DCS-2310L. (Camera firmware issue)
5. Fine
  - a. ACM-PT500
    - i. Camera is unable to achieve maximum FPS. (Camera performance limitation)
  - b. CDV-3F828
    - i. Camera is unable to achieve maximum FPS. (Camera performance limitation)
  - c. ACM-V3002
    - i. Both camera web and NUUO server have audio noise issue. (Camera firmware issue)
6. Lilin
  - a. IPD2322
    - i. Due to Onvif restriction, some frame rate and bit rates cannot be set. (ONVIF limitation)
    - ii. Due to Onvif restriction, dependency between framerate and bitrate cannot be showed. (ONVIF limitation)
    - iii. Audio G.711 mu-law in with 16/32/44.1 KHz sampling rate is not supported. (NUUO server limitation)
    - iv. Camera may respond and show invalid value from current setting. (Camera firmware issue)
  - b. LD2222
    - i. Due to Onvif restriction, some frame rate and bit rates cannot be set. (ONVIF limitation)
    - ii. Due to Onvif restriction, dependency between framerate and bitrate cannot be showed. (ONVIF limitation)
    - iii. Audio G.711 mu-law in with 16/32/44.1 KHz sampling rate is not supported. (NUUO server limitation)



7. Vitek
  - a. VT-20VM-M
    - i. The function that send snapshot to FTP is only supported by MJPEG format. (Camera firmware issue)
    - ii. Only support rtsp port 554.(Camera firmware issue)
    - iii. The actual framerate may not reach the setting value under high resolution and quality configuration.(Camera performance limitation)
    - iv. Brightness, contrast and saturation are not supported.(Camera firmware issue)
    - v. UPnP search are not supported.(Camera firmware issue)
  - b. VTC-IR402
    - i. The function that send snapshot to FTP is only supported by MJPEG format. (Camera firmware issue)
    - ii. Only support rtsp port 554.(Camera firmware issue)
    - iii. The actual framerate may not reach the setting value under high resolution and quality configuration.(Camera performance limitation)
    - iv. Brightness, contrast and saturation are not supported. (Camera firmware issue)
    - v. The talk function is invalid.(Camera firmware issue)
    - vi. UPnP search are not supported.(Camera firmware issue)
8. Zavio
  - a. B8210
    - i. Resolution 1920x1080 and 1280x720 cannot be set because 2<sup>nd</sup> stream (Low) resolution list is not synchronized with camera web. (Camera performance limitation)
    - ii. Multi-stream setting for 2<sup>nd</sup> stream is limited by 3<sup>rd</sup> stream's video parameter. If resolution for 3<sup>rd</sup> stream is higher than 640x480, 2<sup>nd</sup> stream video parameter setting would be failed. (Camera firmware issue)
9. Brickcom
  - a. ph-100Ah
    - i. Audio function is not supported.
    - ii. Resolution and bitrate list is not synchronized with the camera webpage.
    - iii. The video does not play smoothly when the frame rate set to 1.
  - b. VS-04A
    - i. PTZ doesn't work
    - ii. Audio doesn't work
    - iii. Resolution and bitrate list is not synchronized with the camera web.
10. Sony
  - a. SNC-RH124

- i. When camera's format is MJPEG and resolution is larger than 640x480, the connection is unstable.
- ii. The camera is unable to achieve 30fps with MJPEG format.
- iii. Camera must reconnect when change the audio codec in web site.
- b. SNC-CH160
  - i. Camera is unable to achieve 30 fps with resolution 1280x1024.
- c. SNC-DH110
  - i. It would take 30~50 seconds to reconnect after changing video format.

## **Bug Fixed the bug thated:**

### **[MainConsole]**

1. [Sunell] - Fixed the bug that the motion issue of Sunell generic models in the multiple network interface controller.
2. [ONVIF] - Fixed the bug that getting video parameter fail when Profile do not contain any VideoEncoderConfiguration
3. [Hikvision Generic] - Disable the option of "Enable Talk" when the audio is turned off
4. [Zavio F3210/F1100] - Fixed the bug that camera would crash when connecting
5. [Hikvision DS-2CD7253F-EIZ] - Fixed the bug that camera's zoom and focus function doesn't work.
6. [Zavio] - Fixed camera unstable connection.
7. [Guardeon D13000V] - Fixed the crash issue

### **[NVRMini2]**

1. [Sunell] - Fixed the bug that camera would randomly crash when re-connecting.
2. [ONVIF] - Disable the options of "Enable dual stream" of ONVIF/ONVIF models in the Titan NVR and the Crystal.
3. [IQeye] - Fixed the bug that motion detection does not work.
4. [ONVIF/ONVIF] - Fixed the bug that getting video parameter fail when Profile do not contain any VideoEncoderConfiguration.
5. [LILIN IPD2322] - Fixed the bug that the minimum profile cannot be displayed.
6. [Hikvision DS-2CD7253F-EIZ] - Fixed the bug that zoom and focus function does not work.
7. [Santec SNC-6323IRH] - Fixed the bug that the minimum profile cannot be displayed in auto mode.
8. [CNB] - Fixed disconnection issues.

### **[NVRSolo]**

1. [Sunell] - Fixed the bug that the camera would randomly crash when re-connecting.
2. [ONVIF] - Disable the options of "Enable dual stream" of ONVIF/ONVIF models in the Titan NVR and the Crystal.

3. [IQeye] - Fixed the bug that motion detection does not work.
4. [ONVIF/ONVIF] - Fixed the bug that get video parameter fail when Profile do not contain any VideoEncoderConfiguration.
5. [LILIN IPD2322] - Fixed the bug that the minimum profile cannot be displayed.
6. [Hikvision DS-2CD7253F-EIZ] - Fixed the bug that zoom and focus function does not work.
7. [Santec SNC-6323IRH] - Fixed the bug that the minimum profile cannot be displayed in auto mode.
8. [CNB] - Fixed disconnection issues.

## **[NVRTitan]**

1. [Sunell] - Fixed the bug that the camera would randomly crash when re-connecting.
2. [ONVIF] - Disable the options of "Enable dual stream" of ONVIF/ONVIF models in the Titan NVR and the Crystal.
3. [IQeye] - Fixed the bug that motion detection does not work.
4. [ONVIF/ONVIF] - Fixed the bug that get video parameter fail when Profile do not contain any VideoEncoderConfiguration.
5. [LILIN IPD2322] - Fixed the bug that the minimum profile cannot be displayed.
6. [Hikvision DS-2CD7253F-EIZ] - Fixed the bug that zoom and focus function does not work.
7. [Santec SNC-6323IRH] - Fixed the bug that the minimum profile cannot be displayed in auto mode.
8. [CNB] - Fixed disconnection issues.

## **[Crystal]**

1. [Sunell] - Fixed the bug that the camera would randomly crash when re-connecting.
2. [ONVIF] - Disable the options of "Enable dual stream" of ONVIF/ONVIF models in the Titan NVR and the Crystal.
3. [IQeye] - Fixed the bug that motion detection does not work.
4. [ONVIF/ONVIF] - Fixed the bug that get video parameter fail when Profile do not contain any VideoEncoderConfiguration.
5. [LILIN IPD2322] - Fixed the bug that the minimum profile cannot be displayed.
6. [Hikvision DS-2CD7253F-EIZ] - Fixed the bug that zoom and focus function does not work.
7. [Santec SNC-6323IRH] - Fixed the bug that the minimum profile cannot be displayed in auto mode.
8. [CNB] - Fixed disconnection issues.

## Release Version v3.6.0 (2014/8/05)

### Modules:

Device Pack v 3.6.0

### Supported Systems:

Mainconsole	v 4.1.12 and above*
NVRmini 2	v 1.7.1 and above**
NVRsolo	v 1.1.1 and above**
Titan NVR	v 1.6.2 and above
NUUO Crystal™	v 2.0.3 and above

\*For Mainconsole multi stream and setting function, please upgrade to Mainconsole v5.0.0 and above first.

\*\*For NVRmini 2 and NVRsolo multi stream setting function, please upgrade to NVRmini 2/NVRsolo v2.0.0 and above first.

### New Camera Supported:

<b>Arecont</b>	AV5245DN, AV20175DN
<b>Axis</b>	M3025, M3027
<b>Bosch</b>	Generic, NBN-40012, NDN-40012, NIN-40012, NUC-50022, NUC-51022, NDN-50022, NDI-50022, NBN-50022
<b>Dlink</b>	DCS-6517, DCS-7517, DCS-6112, DCS-6113,
<b>Dlink-CN</b>	DCS-H_Series, DCS-V_Series
<b>Everfocus</b>	ETN2260, EZN3361, EHN3361, EAN3300, EDN3340, EPN4220P, EPN4230
<b>Fine</b>	CDV-MV1080F-H, CDB-MD602
<b>Grundig</b>	GCI-G1536F
<b>Sony</b>	SNC-EB632R
<b>Trendnet</b>	TV-IP262P, TV-IP262PI, TV-IP310PI, TV-IP311PI, TV-IP572P, TV-IP572PI, TV-IP572W, TV-IP572WI, TV-IP672P, TV-IP672PI, TV-IP672W, TV-IP672WI
<b>Vivotek</b>	FD8168, SD8364E, IP8165HP, IP8155HP

### FW upgrade:

<b>D-Link</b>	DCS-7010L
<b>Everfocus</b>	EZN3340
<b>Fine</b>	CDV-5VM501

<b>Forenix</b>	IPB-1080BM, IPB-1080BL, IPV-1080CD, IPD-1080CD, IPX-1080DN
<b>Sony</b>	SNC-ER580 (FW 1.82.01)
<b>Zavio</b>	D5210

## Notice:

1. Bosch
  - a. Generic
    - i. H.264 only support IP mode of GOP structure. (Camera→Encoder Profile→Profile N→Expert Settings→GOP structure→IP) (NUUO Server limitation)
    - ii. Only support G.711 audio codec. (Camera performance limitation)
    - iii. After changing MJPEG resolution on web and getting camera setting on NUUO, resolution will return to previous setting. (Camera firmware issue)
    - iv. Snapshot resolution is not correspond to existing profile. (Camera firmware issue)
    - v. Can't set quality value of 3<sup>rd</sup> stream. (Camera firmware issue)
    - vi. Some resolution can't set framerate (NIN-733 Stream2 only support fps 7.5 under 1280x720 )(Camera performance limitation)
    - vii. MJPEG framerate can't synchronize to web setting. (Camera performance limitation)
    - viii. Can't set framerate 1 under base frame rate 50/60 ips mode. (Camera performance limitation)
    - ix. NUUO does not test PTZ function.
2. Zavio
  - a. D5210
    - i. Due to camera restriction, some video setting will fail. This situation will be same as camera web. (Camera performance limitation)
3. Trandnet
  - a. TV-IP262P
    - i. FPS cannot be set to over 15 fps by cgi when it is 720P, but it can be set on web.(Camera Firmware Issue)
    - ii. Sometimes setting by server is different with camera web. In fact, it already has been set successfully.(Camera Firmware Issue)
  - b. TV-IP310PI
    - i. Second stream is unable to change bitrate. (Camera firmware issue)
    - ii. Frame rate list will be out of range when the resolution is 2048x1536. (Camera fimware issue)
    - iii. Second stream is unable to achieve maximun FPS when resolution of main stream is 2048x1536. (Camera performance limitation)

- c. TV-IP672W
  - i. Camera response slowly due to digest authentication.(Camera Performance Issue)
  - ii. Image setting only can set with specific value. Otherwise, it will set fail. (Server Limitation)  
Ex. Specific values:  
0,5,10,15,20,25,30,35,40,45,50,55,60,65,70,75,80,85,90,95,100.
- 4. EverFocus
  - a. ETN2260
    - i. Not support CBR mode.(Camera firmware issue)
    - ii. The quality value can't be synchronize with camera web.(Camera firmware issue)
    - iii. Not support zoom and focus.(Camera firmware issue)
    - iv. The resolution of snapshot always be 640x480.(Camera firmware issue)
    - v. The quality value can't be setup to 0, and the quality value can't be setup to 10 under MJPEG.(Camera firmware issue)
    - vi. If there are duplicate name of preset point, the function of GoTo preset point and Clear All preset point will fail.(Camera firmware issue)
  - b. EZN3340
    - i. The parameters of the camera are not configurable with MPEG4 format.(Camera firmware issue)
    - ii. Not support CBR mode.(Camera firmware issue)
    - iii. Not support zoom and focus.(Camera firmware issue)
    - iv. It will lose parameters of stream2 and stream3 if you disable stream2 and stream3 on camera web.(Camera firmware issue)
- 5. Fine
  - a. CDV-5VM501
    - i. Bit rate list is incorrect. (Camera firmware issue)
    - ii. Resolution of video stream might not change when configuration is changed to 2048x1536. (Camera firmware issue)
    - iii. Camera is unable to achieve maximum FPS, when Quality set to the best. (Camera performance limitation)
    - iv. Palyback is not smooth. (NUUO server limitation)
  - b. TCP-HDVB800-H
    - i. Camera is unable to achieve maximum FPS.(Camera performance limitation)
    - ii. Audio has noise.(Camera firmware issue)
- 6. Sony
  - a. SNC-EB632R
    - i. PTZ only support zoom and focus.

## Bug Fixed the bug thated:

### Crystal:

1. [Sunell] – Fixed the bug that the issue that server sometimes can't receive DI and MD event.
2. [Zavio] - Fixed the bug that the frame dropping issue when using H264 high profile
3. [Vista VK2-2MPVRD] - Fixed the bug that connection issue
4. [Arecont] – Fixed the bug that the bug of Arecone cameras can't not load original video parameter value after upgrade DevicePack version from 3.1

### Titan NVR:

1. [Sunell] – Fixed the bug that the issue that server sometimes can't receive DI and MD event.
2. [Zavio] - Fixed the bug that the frame dropping issue when using H264 high profile
3. [Vista VK2-2MPVRD] - Fixed the bug that connection issue
4. [Arecont] – Fixed the bug that the bug of Arecone cameras can't not load original video parameter value after upgrade DevicePack version from 3.1

### Mainconsole:

1. [Onvif] - Fixed the bug that the issue that Mainconsole will crash after operating preset.
2. [Onvif] - Fixed the bug that the issue that Mainconsole will crash after operating preset functions.
3. [Sunell] – Fixed the bug that the issue that Mainconsole sometimes can't receive DI and MD event.
4. [Zavio] - Fixed the bug that the frame dropping issue when using H264 high profile
5. [LG] – Fixed the bug that that Version 5.0.22 Crash all the time

### NVRmini 2:

1. [Sunell] – Fixed the bug that the issue that server sometimes can't receive DI and MD event.
2. [Zavio] - Fixed the bug that the frame dropping issue when using H264 high profile
3. [Vista VK2-2MPVRD] - Fixed the bug that connection issue
4. [Arecont] – Fixed the bug that the bug of Arecone cameras can't not load original video parameter value after upgrade DevicePack version from 3.1

### NVRsolo

1. [Sunell] – Fixed the bug that the issue that server sometimes can't receive DI and MD event.
2. [Zavio] - Fixed the bug that the frame dropping issue when using H264 high profile
3. [Vista VK2-2MPVRD] - Fixed the bug that connection issue
4. [Arecont] – Fixed the bug that the bug of Arecone cameras can't not load original video parameter value after upgrade DevicePack version from 3.1



## Release Version v3.5.0 (2014/6/30)

### Modules:

Device Pack v 3.5.0

### Supported Systems:

Mainconsole	v 4.1.12 and above*
NVRmini 2	v 1.7.1 and above**
NVRsolo	v 1.1.1 and above**
Titan NVR	v 1.6.2 and above
NUUO Crystal™	v 2.0.3 and above

\*For Mainconsole multi stream and setting function, please upgrade to Mainconsole v5.0.0 and above first.

\*\*For NVRmini 2 and NVRsolo multi stream setting function, please upgrade to NVRmini 2/NVRsolo v2.0.0 and above first.

### New Camera Supported:

<b>3S</b>	N5013, N9018
<b>ACTi</b>	B53, B67, B94, I94
<b>Arecont</b>	AV10255PMTIR, AV10256PMTIR, AV40185
<b>Bosch</b>	NBN-498, NDN-498, NBC-455, NDC-455, NTI-40012, NTI-50022
<b>Dahua</b>	HFW5200, SD6A230
<b>Dlink</b>	DCS-935L
<b>Dlink-CN</b>	DCS-H30-51D/S, DCS-H41-11D/SI, DCS-H41-11D/SO, DCS-H42-21D/SA DCS-H42-21D/SM, DCS-H70-21D/SA1, DCS-H70-21D/SM1
<b>Everfocus</b>	EHN3340, EPN4220
<b>Fine</b>	CDB-HFD728, CDB-HFD828, CDV-3VM800Z3, CDV-MFB2000D, SP-HP2020C-IP, SP-HP2320C-IP, TCP-BF728IR, TCP-BF828IR, TCP-HDVB800Z3
<b>Forenix</b>	FBS-1300BX, FBS-1300ID, FBS-1300IDR, FBS-1300VD, FBS-1300VDR, FBS-1300MID, FBS-1300MVD, FBS-1300BL
<b>IP Power</b>	NCOA22F, NCOA32FD, NCOA52F, NDOA22F-W, NDOA32FD-W, NIAA202F NIDA212F-W, NIDA312FD-W, NIDA512F-W, NIPA2H22-C, NIPA2H22-W NIRA222F, NIRA232F, NIRA332FD, NITA212F, NITA312FD
<b>Samsung</b>	SNO-6011R

**Vivotek** FD8154

## FW upgrade:

<b>3S</b>	N3072
<b>Arecont</b>	AV12366DN
<b>Everfocus</b>	EAN3300, EDN3340, EHN3340, EPN4220
<b>Fine</b>	CDV-3VM501, TCP-MH802, TCP-IRH5030C, CDV-P360, TCP-VM501, SP-HP2020Q-IP, TCP-IRH5040C
<b>Vitek</b>	VTC-IR401
<b>Vivotek</b>	FD8363

## New Feature:

1. Support Onvif DI/DO/Motion Detection notification via pull point subscription, audio output(talk)
2. Support multiple stream on Hikvision Generic

## Notice:

7. 3SVision:
  - a. N9018
    - ii. Audio choppy with G.726/32.(Camera firmware issue)
    - iii. The image of snapshot to FTP is from MJPEG stream. (camera firmware issue)
8. Bosch:
  - a. NTI-40012, NTI-50022
    - i. H.264 only support IP mode of Bosch GOP structure. (NUUO Server limitation)
    - ii. Only support G.711 audio codec. (Camera performance limitation)
    - iii. After changing MJPEG resolution on web and getting camera setting on NUUO, resolution will return to previous setting. (Camera firmware issue)
    - iv. Snapshot resolution is not correspond to existing profile. (Camera firmware issue)
  - b. NBN-498, NBC-455
    - i. H.264 only support IP mode of Bosch GOP structure. (NUUO Server limitation)
    - ii. Only support G.711 audio codec. (Camera performance limitation)
    - iii. It can't set up 3rd stream quality value. (Camera firmware issue)
9. IPPower
  - a. NCOA52F
    - i. Camera with high resolution and quality is unable to achieve max fps. (Camera performance limitation)

- ii. The range of bitrate isn't synchronized with the one on camera's web due to Onvif restriction. (Camera performance limitation)
  - iii. The list of framerate isn't synchronized with the one on camera's web due to Onvif restriction. (Camera performance limitation)
  - iv. Don't support autodetect and search. (Camera firmware limitation)
10. ACTi
- a. B57, B67, B94, I67
    - i. The camera with highest quality and resolution is unable to achieve 30 fps and audio stutter.(Camera performance limitation)
11. Everfocus
- a. EPN4220
    - i. The Audio-In status can't synchronize to web client. (ONVIF limitation)
    - ii. Cannot change the rate control mode. (ONVIF limitation)
    - iii. Cannot get snapshot by CGI(404). (Camera firmware issue)
  - b. EHN3340
    - i. Onvif test tool get "No MPEG4 support" but actually it supports. (Camera firmware issue)
    - ii. The Audio-In status can't synchronize to web client. (ONVIF limitation)
    - iii. Cannot change the rate control mode. (ONVIF limitation)
    - iv. Cannot get snapshot by CGI(404). (Camera firmware issue)
    - v. The brightness only change when the value is 50 (Camera firmware issue)
12. FINE
- a. TCP-HDVB800Z3
    - i. The info. of stream profile display failure.
  - b. CDV-MFB2000D
    - i. Camera is unable to achieve maximum FPS. (Camera performance limitation)
    - ii. The info. of stream profile display failure. (NUUO server limitation)
  - c. TCP-MH802
    - i. Framerate may display incorrectly with MJPEG format. (Camera firmware issue)
    - ii. Camera is unable to achieve maximum FPS. (Camera performance limitation)
13. Vitek
- a. VTC-IR401
    - i. Disable talk function.(Camera firmware issue)
    - ii. The camera with highest quality and resolution is unable to achieve 30 fps.(Camera performance limitation)
    - iii. Sometimes UPNP search failed.(Camera firmware issue)
    - iv. Motion detection may not trigger when closing audio function(Camera firmware issue)

## 14. Arecont

- a. AV10255PMTIR, AV12366DN
  - i. Camera is unable to achieve maximum FPS. (camera performance limitation)

## 15. Dahua

- a. IPC-HFW5200
  - i. Sometimes parameter dialog will fail to get codec parameter with high bitrate. (Camera performance limitation)
  - ii. The configuration of parameter on camera will be changed by other parameter, our parameter dialog can't synchronize with camera. (Camera firmware issue)
  - iii. Slow reaction when motion detection is triggered. (Camera performance limitation)
  - iv. Polling the DI/Motion status will make audio stutter. (Camera performance limitation)
- b. SD6A230
  - i. The permitted parameter list on camera will be changed by other parameters, our parameter dialog can't synchronize with camera. (Camera firmware issue)
  - ii. The camera can't be searched by UPnP tools. (Camera firmware issue)
  - iii. Slow reaction when motion detection is triggered. (Camera performance limitation)
  - iv. Big audio noise with PCM. (Camera firmware issue)
  - v. CGI response "support flip/mirror", but actually not. (Camera firmware issue)
  - vi. Polling the DI/Motion status will make audio stutter. (Camera performance limitation)

## Bug Fixed the bug thated:

### Crystal:

- 5. [Axis] - Fixed the bug that high bitrate when P7214 reset.
- 6. [Fine 5MP] - Fixed the bug that Camera parameters not synchronize with web.
- 7. [ACTi] - Fixed the bug that ACTi ACM3701 that won't seem to go to the full resolution.

### Titan NVR:

- 5. [Axis] - Fixed the bug that high bitrate when P7214 reset.
- 6. [Fine 5MP] - Fixed the bug that Camera parameters not synchronize with web.
- 7. [ACTi] - Fixed the bug that ACTi ACM3701 that won't seem to go to the full resolution.

### Mainconsole:

- 6. [DLink]
  - i. Fixed the bug thated the issue that DCS-6513 cannot stop auto pan.
- 7. [Messoa]
  - i. Fixed the bug thated the issue that NCR870 and NDF820 doesn't enable multiple streams setting.
- 8. [HDPRO]

- i. Fixed the bug that caused the issue that HD-IC221STH211P doesn't enable multiple streams setting.
9. [MegaIP]
- i. Fixed the bug that caused the issue that NCD-2003PR doesn't enable multiple streams setting.

## NVRmini 2:

1. [Axis] - Fixed the bug that high bitrate when P7214 reset.
2. [Fine 5MP] - Fixed the bug that Camera parameters not synchronize with web.
3. [ACTi] - Fixed the bug that ACTi ACM3701 that won't seem to go to the full resolution.

## NVRsolo

5. [Axis] - Fixed the bug that high bitrate when P7214 reset.
6. [Fine 5MP] - Fixed the bug that Camera parameters not synchronize with web.
7. [ACTi] - Fixed the bug that ACTi ACM3701 that won't seem to go to the full resolution.

## Release Version v3.4.0 (2014/6/5)

### Modules:

Device Pack	v 3.4.0
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### Supported Systems:

Mainconsole	v 4.1.12 and above*
NVRmini 2	v 1.7.1 and above**
NVRsolo	v 1.1.1 and above**
Titan NVR	v 1.6.2 and above
NUUO Crystal™	v 2.0.3 and above

\*For Mainconsole multi stream and setting function, please upgrade to Mainconsole v5.0.0 and above first.

\*\*For NVRmini 2 and NVRsolo multi stream setting function, please upgrade to NVRmini 2/NVRsolo v2.0.0 and above first.

### New Camera Supported:

<b>ACTi</b>	B97 and E95
<b>AXIS</b>	M1004-W
<b>CNB</b>	MPC1070PN (fisheye camera)
<b>Dahua</b>	HCVR5104H
<b>Dlink</b>	DCS-942LB1, DCS-6513
<b>Dlink-CN</b>	DCS-H50-21D/S
<b>Everfocus</b>	EDN2260
<b>Fine</b>	CDV-3VM800-H, TCP-2200AM-H, TCP-2700AM-W and TCP-HDVB800-H
<b>Forenix</b>	ISPD II-1312WD and ISPD II-3018WD
<b>LG</b>	LNP3020P and LNV7210R
<b>Mobotix</b>	Q25M-Secure(fisheye camera) and T25M-Secure(fisheye camera)
<b>TriCorps</b>	TCS-33B002-IRFH and TCS-36B002
<b>Vista</b>	VK2-1080BIR35V16e, VK2-1080BIR37e, VK2-1080VFD3V9F, VK2-1080VFDIR37e, VK2-1080VRD3V9, VK2-1080VRDIR35V16e and VK2-1080VRDIR37e
<b>Vitek</b>	VTD-13VN, VTD-20VN-M, VTD-MV20VRN and VT-13FN-M
<b>Vivotek</b>	MD8531H, SD8363E and SF8174 (SD8363E and SF8174 are PPTZ)

## FW upgrade:

<b>AXIS</b>	M3007 (5.55.1.1)
<b>Brickcom</b>	30xN (3.2.2.8) and OSD-200A (gk20140422NSA)
<b>Vivotek</b>	VS8801 (VS8801-VVTK-0202a3.flash.pkg)

## Multiple Stream Setting:

1. Support multiple stream setting function on ACTi E95, ACTi Generic, Mobotix Q25M-Secure, T25M-Secure and ONVIF 2.0 Profile S with test tool v12.06 (test model see <http://www.nuuo.com//mktmaterials/NVS/ONVIF.pdf>).

## New Feature:

1. Arecont on DP v3.4.0 support bandwidth limitation function.
2. Vivotek on DP v3.4.0 support smart stream function\* with Mainconsole, NVRmini 2, NVRsolo, and NUUO Crystal™ (v2.2).  
\* Smart stream function support only if Vivotek camera supports this function.
3. Centrix Generic and Dynacolor Generic on DP v3.4.0 support NUUO Dewarp function.

## Notice:

1. Brickcom:
  - b. OSD-200A(20xP)
    - iv. Digital input reaction is slow. (Camera performance limitation)
    - v. Snapshot is supported when the codec is MJPEG. (Camera performance limitation)
  - c. FB-300Np(30xN)
    - i. The Motion Detection may trigger continuously when the frame rate is 1. (Camera firmware issue)
    - ii. It will show error message when setup camera parameter to higher resolution. (NUUO Crystal™ limitation)
2. CNB:
  - a. MPC1070PN
    - i. Camera is unable to achieve maximum FPS. (Camera performance limitation)
    - ii. Audio stutter with G.711. (Camera firmware issue)
    - iii. MJPEG bitrate setting is tied to FPS setting and will change base on any FPS changes. (Camera performance limitation)
    - iv. 2nd stream and 3rd stream are unable to achieve 500/100 kbps. (Camera performance limitation)
3. Dahua:
  - a. HCVR5104H

- i. The bitrate list of camera isn't synchronized with the one on camera's web. (NUUO server limitation)
  - ii. The auto detection and UPnP search are not supported. (Camera firmware issue)
  - iii. The audio-in function is only supported in channel 1. (Camera firmware issue)
  - iv. The PCM audio format is not supported. (Camera firmware issue)
  - v. The talk function is not supported. (Camera firmware issue)
  - vi. The move and auto-pan functions of PTZ are not supported. (Camera firmware issue)
  - vii. After focus- near or focus-far, camera automatically switches to autofocus immediately. (Camera firmware issue)
  - viii. The auto-focus is not supported. (Camera firmware issue)
  - ix. The motion detection is not supported. (Camera firmware issue)
  - x. The parameters of the camera are not configurable with low FPS. (Camera firmware issue)
4. DLink:
- a. DCS-6513
    - i. DCS-6513 PTZ supports zoom and focus. (Camera performance limitation)
    - ii. First time connection may take about 30 seconds due to the need for camera configuration. (Camera performance limitation).
5. EverFocus:
- a. EDN2260:
    - i. The quality list of H.264 isn't synchronized with the one on camera's web. (Camera firmware issue)
6. Fine:
- a. TCP-HDVB800-H
    - i. Camera is unable to achieve maximum FPS.(Camera performance limitation)
    - ii. Audible noise. (Camera firmware issue)
7. Forenix:
- a. ISPDII-3018WD
    - i. 2<sup>nd</sup> stream is unable to achieve 500/100 kbps, when main stream resolution is 3M, SXGA or D1. (Camera performance limitation)
    - ii. Camera with quality over 8192 is unable to achieve maximum FPS. (Camera firmware issue)
  - b. ISPDII-1312WD
    - i. 2<sup>nd</sup> stream is unable to achieve 500/100 kbps, when main stream resolution is 3M, SXGA or D1. (Camera performance limitation)
    - ii. Camera with quality over 8192 is unable to achieve maximum FPS (Camera performance limitation)



- iii. Camera will automatically pan or tilt, every 30 seconds or 2 minutes indefinitely. 1 minute after this motion occurred, the camera cannot tilt during this 1 minute period. (Camera firmware issue)
8. Histream:
- a. HH9803C-L16
    - i. Due to Onvif restriction, some frame rate and bit rate cannot be set. (Camera performance limitation)
    - iii. MPEG4 is not supported. (Camera firmware issue)
    - ii. The MJPEG quality selection list on a camera is not synchronized with the one on the camera's web settings page. (Camera firmware limitation)
9. Jetstor:
- a. JV-B1201R
    - i. Due to Onvif restriction, some frame rate and bit rates cannot be set. (Camera performance limitation)
    - ii. Camera 2<sup>nd</sup> and 3<sup>rd</sup> stream is unable to change resolution. (Camera firmware limitation)
10. LG:
- a. LNP3020
    - i. Snapshot is not supported. (Camera performance limitation)
  - b. LNV7210R
    - i. Video parameter (brightness...etc) setting is not supported. (Camera performance limitation)
11. Mobotix:
- a. T25M-Secure
    - i. Camera movements became imprecise under panoramic mode.(NUUO Server limitation)
  - b. Q25M-Secure
    - ii. Camera movements became imprecise under panoramic mode.(NUUO Server limitation)
12. Qihan:
- a. QH-NV431
    - i. Due to Onvif restriction, some bit rates cannot be set. (Camera performance limitation)
    - ii. When main stream Liveview is on highest bitrate, the 2<sup>nd</sup> or 3<sup>rd</sup> stream disconnects. (Camera performance limitation)
13. TriCorp:
- a. TCS-33B002-IRFH

- i. System response is slow when switching to MPRG-4 encoding format (Camera performance limitation)
    - ii. System response is slow to receive camera stream when connecting for the first time. (Camera performance limitation)
    - iii. Camera with MJPEG format will have mosaic effect. (Camera firmware limitation)
    - iv. Camera is unable to achieve maximum FPS (Camera performance limitation)
  - b. TCS-36B002
    - i. Need very long time to switch MPEG4 codec. (Camera performance limitation)
    - ii. Need very long time to receive stream when first time used. (Camera performance limitation)
    - iii. Camera with MJPEG format will have mosaic effect. (Camera firmware limitation)
    - iv. Motion detection is not supported. (Camera firmware limitation)
    - v. Camera is unable to achieve maximum FPS (Camera performance limitation)
- 14. Tyco:
  - a. ADVEIPSD37AH
    - i. Due to Onvif restriction, some frame rate and bit rates cannot be set. (Camera performance limitation)
    - iv. The MJPEG quality selection list on a camera is not configurable. (Camera firmware issue) The MJPEG quality selection list on a camera
- 15. Vista:
  - a. VK21080VFD3V9F
    - i. VK21080VFD3V9F PTZ supports zoom and focus. (Camera performance limitation)
- 16. Vivotek:
  - a. SD8363E
    - ii. The video parameter setting will get false value. (Camera performance limitation)
  - b. MD8531H
    - iii. The video parameter setting will get false value. (Camera performance limitation)
- 17. WAPA:
  - a. BL-C7HA1080IL-T18
    - iv. Due to Onvif restriction, some bit rates cannot be set. (Camera performance limitation)
    - i. The frame rate of the camera is not configurable. (Camera firmware limitation)

## Bug Fixed the bug thated:

Mainconsole:

- 1. [DLink]
  - ii. Fixed the bug thated the issue that DCS-6513 cannot stop auto pan.

- iii. Fixed the bug that the issue that enable/disable audio out will change camera volume.
- 2. [Mobotix]
  - iv. Fixed the bug that the issue that motion detection may not trigger when adding new "Image Analysis Events" profile.
- 3. [Forenix]
  - v. Fixed the bug that the issue that the FPS setting of IPB-1080BM, IPB-1080BL, IPV-1080CD, IPD-1080CD and IPX-1080DN isn't synchronized with the one on camera's web.
- 4. [Axis]
  - vi. Audio function on Liveview now supports Axis P3346 camera.
  - vii. Fixed the bug that the issue that P7214 audio-in isn't synchronized with the one on camera's web.
- 5. [ACTi]
  - viii. Fixed the bug that the compatibility issues with adding ACTi KCM5611.
- 6. [Hikvision]
  - ix. Fixed the bug that the issue that DS-6601HF is disconnected.
  - x. Corrected possible issues caused by multi-stream connection with Hikvision generic.
- 7. [Vivotek]
  - xi. Trigger motion no longer fails when setting more than 1 motion area detection triggers on the camera web setting page.

## NVRmini 2:

- 1. [Axis]
  - i. Fixed the bug that the issue that P7214 audio-in isn't synchronized with the one on camera's web.
- 2. [Forenix]
  - i. Fixed the bug that the issue that the FPS setting of IPB-1080BM, IPB-1080BL, IPV-1080CD, IPD-1080CD and IPX-1080DN isn't synchronized with the one on camera's web.
- 3. [Vivotek]
  - i. Trigger motion no longer fails when setting more than 1 motion area detection triggers on the camera web setting page.
- 4. [Vista]
  - i. Fixed the bug that the Vista VK2-600PTZ random disconnection issue.

## NVRsolo

1. [Axis]
  - i. Fixed the bug that the issue that P7214 audio-in isn't synchronized with the one on camera's web.
2. [Forenix]
  - i. Fixed the bug that the issue that the FPS setting of IPB-1080BM, IPB-1080BL, IPV-1080CD, IPD-1080CD and IPX-1080DN isn't synchronized with the one on camera's web.
3. [Vivotek]
  - i. Trigger motion no longer fails when setting more than 1 motion area detection triggers on the camera web setting page.
4. [Vista]
  - i. Fixed the bug that Vista VK2-600PTZ random disconnection issue.

## Titan NVR:

1. [Axis]
  - i. Fixed the bug that the issue that P7214 audio-in isn't synchronized with the one on camera's web.
2. [Forenix]
  - i. Fixed the bug that the issue that the FPS setting of IPB-1080BM, IPB-1080BL, IPV-1080CD, IPD-1080CD and IPX-1080DN isn't synchronized with the one on camera's web.
3. [Vivotek]
  - i. Trigger motion no longer fails when setting more than 1 motion area detection triggers on the camera web setting page.
4. [Vista]
  - i. Fixed the bug that Vista VK2-600PTZ random disconnection issue.

## Release Version v3.3.0 (2014/5/5)

### Modules:

Device Pack v 3.3.0

### Supported Systems:

Mainconsole	v 4.1.12 and above*
NVRmini 2	v 1.7.1 and above**
NVRsolo	v 1.1.1 and above**
Titan NVR	v 1.6.2 and above
NUUO Crystal™	v 2.0.3 and above

\*For Mainconsole multi stream and setting function, please upgrade to Mainconsole v5.0.0 and above first.

\*\*For NVRmini 2 and NVRsolo multi stream setting function, please upgrade to NVRmini 2/NVRsolo v2.0.0 and above first.

### New Camera Supported:

<b>Arecont</b>	AV12366DN
<b>Bosch</b>	NBN-733, NBN-832, NDN-733, NDN-832, NIN-733 and NIN-832
<b>Dahua</b>	SD6366E-HN
<b>Dlink</b>	DCS-6112B1, DCS-930LB1 and DCS-932LB1
<b>Fine</b>	CDB-720VIR-H, TCP-2700AM, TCP-BF1080 and TCP-HVB3100D
<b>Forenix</b>	FBU-301LWD
<b>HDPRO</b>	HD-IC221STH211P
<b>QVS</b>	Generic
<b>Santec</b>	SNC-3303, SNC-4323IR, SNC-5323IRH, SNC-6303 and SNC-6323IRH
<b>Sony</b>	SNC-HM662 (fisheye camera) and SNC-VM601B
<b>Vivotek</b>	FD8171, IP8355EH and IP8365EH

### FW upgrade:

<b>Arecont</b>	AV5115 (65225)
<b>Everfocus</b>	EZN3260 (1.2.4)
<b>Forenix</b>	FBU-200LWD, FBU-201LWD, FBX-200CL, FBX-200LWD, FDM-200LWD, FVD-200LWD

(cramfsImage\_AgWT8200122N06\_1401213F) , FBU-300LWD ,  
FBX-300LWD, FDM-300LWD and FVD-300LWD  
(cramfsImage\_AgWT8300036N06\_1401214F)

## Multiple Stream Setting:

1. Support multiple stream setting function on Santec SNC-3303, SNC-4323IR, SNC-5323IRH, SNC-6303, SNC-6323IRH and Mobotix D15D-Sec, D15D-Sec-Dnight, D15D-Sec-Night-Pano, D15D-Sec-Pano, M15D-Sec, M15D-Sec-Dnight, M15M-Sec, S15D-Sec, S15M-Sec and S15M-Sec-Night

## New Feature:

1. Sony G6 series on DP v3.3.0 support multiple stream settings with Mainconsole v5.0.0 and NVRmini 2/NVRsolo v2.0.0 and above.
2. Axis PQM series and Vivotek 8000 series on DP v3.3.0 support CBR/VBR settings with NVRmini 2/NVRsolo v2.0.0, Titan v1.6.2 and NUUO Crystal™ v2.0.4 and above.
3. Brickcom 50xA and 30xN on DP v3.3.0 support resolution dynamically changes based on the camera's maximum resolution.

## Notice:

1. Bosch:
  - vi. NIN-733
    - i. Camera only supports IP mode of GOP structure under H.264 format.
    - ii. Camera only supports G.711 audio codec.
    - iii. The multi-stream setting of the camera is not configurable due to the limitations of inter-streaming dependency.(Mainconsole only)
  - vii. NDN-832
    - i. Camera only supports IP mode of GOP structure under H.264 format.
    - ii. Camera only supports G.711 audio codec.
    - iii. With camera stream mode -- H.264 MP SD user can change resolution from 1920x1080 or 1280x720 to lower resolution.
    - iv. The multi-stream setting of the camera is not configurable due to the limitations of inter-streaming dependency.(Mainconsole only)
2. Brickcom
  - a. OB-200Ap(50xA)
    - i. The frame rate list with camera stream mode -- Wide and Ultra-Wide isn't synchronized with the one on camera's web. (camera firmware issue)

- ii. Under the protocol HTTP, the RTSP stream will disconnect within 5 minutes. (camera performance limitation)
  - iii. There is a display mosaic issue when the format is MJPEG and resolution is 2592x1944 or 2304x1728.
  - iv. The zoom and focus function have no response via camera web or CGI command. (camera firmware issue)
  - v. It will show error message when setup camera parameter to higher resolution. (NUUO Crystal™ only)
  - vi. The image of OB-200Ap sometimes cannot be updated under the protocol of TCP. (NUUO Crystal™ only)
- b. OB-200Np(30xN)
- i. Under the protocol HTTP, the RTSP stream will disconnect within 5 minutes. (camera performance limitation)
  - ii. The zoom and focus function have no response via camera web or CGI command. (camera firmware issue)
  - iii. Motion detection may trigger when frame rate is 1. (camera firmware issue)
  - iv. It will show error message when setup camera parameter to higher resolution. (NUUO Crystal™ only)
3. Dahua
- a. SD6366E-HN
- i. The list of camera bitrate isn't synchronized with the one on camera's web. User should apply a value in the valid range from the web page of the camera so that the setting can be applied successfully.
  - ii. Autofocus is not supported. (camera firmware issue)
4. DLink
- a. DCS-6112B1
- i. The camera with highest quality and MJPEG format is unable to achieve 30 fps.(camera firmware issue)
  - ii. Audio out is not supported. (camera firmware issue)
- b. DCS-930LB1
- i. Auto detection is not supported. (camera firmware issue)
5. EverFocus
- a. EZN3260
- i. The camera resolution of the third stream is unable to achieve 160x128. (NVRmini 2/NVRsolo/Titan NVR/NUUO Crystal™)

- ii. The information of camera 2<sup>nd</sup> stream and 3<sup>rd</sup> stream are not synchronizes with the one on camera's web when disable and enable the 2<sup>nd</sup> and 3<sup>rd</sup> stream on camera's web. (camera firmware issue)
  - iii. The list of camera quality isn't synchronized with the one on camera's web with CBR. (NUUO server limitation)
6. Fine
- a. TCP-BF1080, CDB-720VIR-H
    - i. The camera frame rate is unable to achieve 20/30 fps. (camera firmware issue)
    - ii. The stream profile information does not display correctly. (Mainconsole only)
7. Forenix
- a. FBU-200LWD
    - i. Camera DI is not supported. (camera firmware issue)
    - ii. Camera snapshot function is not supported. (camera firmware issue)
    - iii. The camera 2<sup>nd</sup> and 3<sup>rd</sup> stream with D1 and SXGA resolution is unable to achieve 500bps/100bps. (camera firmware issue)
  - b. FVD-300LWD
    - i. Camera DI is not supported. (camera firmware issue)
    - ii. Camera snapshot function is not supported. (camera firmware issue)
    - iii. The camera with TCP connection is unable to achieve its frame rate setting. (camera firmware issue)
    - iv. The camera 2<sup>nd</sup> and 3<sup>rd</sup> stream with D1 and SXGA resolution is unable to achieve 500bps/100bps. (camera firmware issue)
8. HDPRO
- a. HD-IC221STH211P
    - i. The multi-stream will depend on stream setting on camera web.
    - ii. Audio only support G.711 codec.
9. Mobotix
- a. M15D-Sec, S15D-sec, D15d-Sec
    - i. The camera with higher quality and resolution is unable to achieve the fps which users set for all streams.(camera firmware issue)
    - ii. The 2<sup>nd</sup> and 3<sup>rd</sup> stream resolution will depends on 1<sup>st</sup> stream resolution setting. For example, if users set the resolution of 1st stream to 2048\*1536(the ratio of height and width is 4:3) and 2nd stream resolution is 1920\*1080, the 2nd stream resolution will become 1440\*1080(4:3) instead of 1920\*1080(16:9). (camera performance limitation)
10. Santec



- a. SNC-3303, SNC-6323IRH
  - i. Audio has noise with the camera format MJPEG, resolution 1920x1080, frame rate 25fps, quality 70 and TCP protocol.
  - ii. When disable MJPEG stream, camera snapshot function is not supported
  - iii. Camera with MJPEG format and 1920x1080 resolution is unable to achieve 20 fps
- 11. Sony
  - a. SNC-HM662
    - i. With JPEG format and resolution 2560x1920 does not support audio.
    - ii. Only all streams with default RTSP path are supported.
    - iii. Camera is unable to achieve the maximum FPS.
    - iv. Sometimes, stream setting may be failed.
  - b. SNC-EB630
    - i. Sometimes, the 3<sup>rd</sup> stream setting is not configurable.

## Bug Fixed the bug thated:

Mainconsole:

- 8. [VisionHitech] Fixed the bug thated the issue that camera Vision-SMi stream is disconnected.

NVRmini 2:

- 5. [Samsung] Fixed the bug thated the issue that SNF-7010 2<sup>nd</sup> stream is disconnected.
- 6. [Centrix] Fixed the bug thated compatibility issues with using generic model.

NVRsolo

- 1. [Samsung] Fixed the bug thated the issue that SNF-7010 2<sup>nd</sup> stream is disconnected.
- 2. [Centrix] Fixed the bug thated compatibility issues with using generic model.

Titan NVR:

- 1. [Samsung] Fixed the bug thated the issue that SNF-7010 2<sup>nd</sup> stream is disconnected.
- 2. [Centrix] Fixed the bug thated compatibility issues with using generic model.

NUUO Crystal™:

- 1. [Samsung] Fixed the bug thated the issue that SNF-7010 2<sup>nd</sup> stream is disconnected.
- 2. [Centrix] Fixed the bug thated compatibility issues with using generic model.

## Release Version v3.2.1 (2014/4/23)

### Modules:

Device Pack v 3.2.1

### Supported Systems:

Mainconsole v 4.1.12 and above\*

\*For Mainconsole multi stream and setting function, please upgrade to Mainconsole v5.0.0 and above first.

### Bug Fixed the bug thated:

Mainconsole:

9. [Axis] Fixed the bug thated compatibility issues with using multi stream function.
10. [Vivotek] Fixed the bug thated compatibility issues with using multi stream function.

## Release Version v3.2.0 (2014/4/7)

### Modules:

Device Pack v 3.2.0

### Supported Systems:

Mainconsole	v 4.1.12 and above*
NVRmini 2	v 1.7.1 and above**
NVRsolo	v 1.1.1 and above**
Titan NVR	v 1.6.2 and above
NUUO Crystal™	v 2.0.3 and above

\*For Mainconsole multi stream and setting function, please upgrade to Mainconsole v5.0.0 and above first.

\*\*For NVRmini 2 and NVRsolo multi stream setting function, please upgrade to NVRmini 2/NVRsolo v2.0.0 and above first.

### New Camera Supported:

<b>ACTi</b>	I51(fisheye camera) and I71(fisheye camera)
<b>AMTK</b>	AH2816T (Fisheye camera)
<b>Arecont</b>	AV3455 and AV10225
<b>Dlink</b>	DCS-7000L
<b>Fine</b>	TCP-HFB720-H
<b>Guardeon</b>	GND-D2300V, GND-D3200, GND-F2300 and GND-H2300IR
<b>Levelone</b>	FCS-5042
<b>Samsung</b>	SND-6011R and SNV-7080R
<b>Sony</b>	SNC-WR600, SNC-WR602, SNC-XM632, SNC-XM636 and SNC-XM637
<b>Vitek</b>	VTC-IR401/210NP
<b>Vivotek</b>	FD8355EHV and FD8365EHV
<b>Wavekrom</b>	WK-SD6000HD

### FW upgrade:

<b>Arecont</b>	AV10115 and AV10255 (65225)
<b>CNB</b>	IDC4050VF (XNET.M1-3.00.13.1125), INS2000 (FW XNET.A1-2.01.13.0902) and IVC5055VR(XNET.M1-3.00.13.1125)

<b>Dlink</b>	DCS-3714 (FW: V1.00.00) and DCS-6115 (FW: V0.09.00)
<b>Fine</b>	ACM-V3103 (FW: 2.03.14A) and TCP-HVB3105D (FW: v2.03.14A)
<b>Levelone</b>	FCS-3062 (FW: 1.0.0.6build4), FCS-4041 (FW: Le20140113NSA), FCS-4042 (FW: Le20140113NSA) and FCS-5052(FW: 1.0.0.6build4)
<b>Samsung</b>	SNO-7080R(FW 2.00_121004)
<b>Sunell</b>	SN-IPR54/31UDN (FW: v1.7.1001.3.0.13)
<b>Vision Hitech</b>	Vision SM3Ti (VISION_M3Ti_2014.02.27_v.1.1.5.13.dat)
<b>Zavio</b>	D7320 (FW: M3.1.5.21)

## Multi Stream Setting:

- Support multi stream setting function on Santec SNC-3302, SNC-3305, SNC-3322, SNC-4302, SNC-5312IR, SNC-5315IR, SNC-6202, SNC-6212IR, SNC-6302, SNC-6312IRH, SNC-6315IRH, SNC-8322I/HO, Samsung SND-6011R, SNV-7080R, SNO-7080R and all Sunell models.

## New Feature:

- Support multi stream setting function with NVRmini 2/NVRsolo v2.0.0 and above on Axis PQM series from DP v3.2.0.
- Support Snapshot function\* with NVRmini 2/NVRsolo v2.0.0 and above on Axis PQM series, Arecont camera, Sony G6 series, Vivotek 8000 series, Honeywell HDZ20HD HDZ20HDE, HDZ20HDEX, HDZ20HDX and Hikvision DS-2CD2012-I, DS-2CD2112-I, DS-2CD2212-I3, DS-2CD2212-I5, DS-2CD2312-I, DS-2CD2612F-I, DS-2CD2612F-IS, DS-2CD2632F-IS, DS-2CD2712F-I, DS-2CD2712F-IS, DS-2CD2732F-IS, DS-2CD7253F-EIZ, DS-2CD8253F-EI, DS-2CD8264FWD-EIS, DS-2CD864FWD-E, DS-2DF1-572, DS-6601HFHI, Generic from DP v3.2.0.

\*One of the cameras in the system must support I/O functions in order to enable the snapshot feature. This is a known issue and we are looking to Fixed the bug that it with the next product version update.

- Support PTZ function on ACTi Generic.
- Support Santec four motion areas detection on Santec SNC-3302, SNC-3305, SNC-3322, SNC-4302, SNC-5312IR, SNC-5315IR, SNC-6202, SNC-6212IR, SNC-6302, SNC-6312IRH, SNC-6315IRH, SNC-8322I/HO.
- Support Vivotek smart stream function on Mainconsole.

## Notice:

- Acti:
  - I71
    - The camera resolution N640x360 should be N640x480.
- CNB:

- a. CNB-IDC4050VF
    - i. Cameras with VGA resolution will be unable to change bitrates. (camera firmware issue)
  - b. CNB-INS2000
    - i. Camera is unable to achieve maximum FPS. (camera firmware issue)
    - ii. Audio stutter with G.711. (camera firmware issue)
    - ii. The FPS setting for 2<sup>nd</sup> stream will get false value (25 or 30) (camera firmware issue)
    - iii. Camera is unable to change bitrate. (camera firmware issue)
3. Dlink:
- a. DCS-3714
    - i. The camera with highest quality and resolution is unable to achieve 30 fps. (camera firmware issue)
  - b. DCS-6115
    - i. The camera with highest quality and MJPEG format is unable to achieve 30 fps and audio will stutter. (camera firmware issue)
  - c. DCS-7000L
    - ii. The camera with highest quality/resolution and MJPEG format is unable to achieve 30 fps. (camera firmware issue)
    - iii. The parameters of the camera are not configurable with H.264 format. (camera firmware issue)
    - iv. The format of the camera is not configurable from MJPEG to H.264. (camera firmware issue)
    - v. The list of camera format MPEG4 isn't synchronized with the one on camera's web. If user sets camera format to MPEG4, camera will crash. (camera firmware issue)
    - vi. Motion detection may not trigger continuously. (camera firmware issue)
4. Fine:
- a. ACM-V3103, TCP-HVB3105D
    - i. Camera will be disconnected when disabling camera MJPEG format on camera's web.
    - ii. Camera with resolution 1920x1080 is unable to achieve 20 fps. (camera firmware issue)
    - iii. Video and audio stream malfunction within a period of time. (camera firmware issue).
5. Guardeon:
- a. GDN-H2300IR

- i. Camera will reboot (duration 60 seconds) after parameter configuration. (camera firmware issue)  
Talk function not supported.  
audio in with 16 KHz sampling rate not supported.
  - vii. camera UPnP search not supported. (camera firmware issue)
- 6. LevelOne:
  - a. FCS-4042
    - i. After quality setting change, the camera is unable to achieve 30 fps.
    - ii. The special symbol usage ex: # for camera preset point name will fail.
    - iii. It will take 50~60 seconds in MJPEG format and maximum resolution setting
- 7. Sunell:
  - a. All Sunell models has MJPEG codec removed. (Mainconsole)
  - b. SN-IPR54/31UDN
    - i. Due to Onvif restriction, some frame rate and bit rates cannot be set.
- 8. VisionHitech:
  - a. M3Ti
    - i. NUUO use dual mode as default connection mode.
    - ii. Camera with format MJPEG and resolution VGA is unable to achieve the camera setting fps.
- 9. Vitek:
  - a. VTC-IR401
    - i. Camera fps is unable to achieve the camera setting fps. (camera performance issue)
    - ii. UPnP search may not work. (camera performance issue)
- 10. Zavio:
  - a. D7320
    - i. Camera fps is unable to achieve the desired fps.

## Bug Fixed the bug thated:

Mainconsole:

- 11. [LG] Fixed the bug thated compatibility issues with adding cameras LG LVS201.
- 12. [Onvif/Onvif] Fixed the bug thated the issue that causes Mainconsole to restart when selecting onvif/onvif settings on a camera
- 13. [Arecont] Fixed the bug thated the display mosaic issue on Arecont AV10115 when switching to D/N mode in live view.
- 14. [Zavio] Corrected PTZ speed range and auto pan speed setting on Zavio P6210 and 812x cameras.

15. [Messoa] Messoa PRO series cameras are now correctly labeled as "Messoa Pro" cameras.

16. [Messoa] Messoa NCB858 is now correctly labeled. (previously labeled as NCR858)

#### NVRmini 2:

3. [Axis] Dewarp function now supports Axis M3007 camera.

4. [Arecont] Fixed the bug that the display mosaic issue on Arecont AV10115 when switching to D/N mode in live view.

5. [D-Link] Corrected possible issues caused by dual stream connection with D-link DCS-2210 camera.

6. [Messoa] Messoa PRO series cameras are now correctly labeled as "Messoa Pro" cameras.

7. [Messoa] Messoa NCB858 is now correctly labeled. (previously labeled as NCR858)

8. [Sunell] Fixed the bug that the issue that causes frame rate to double when enabling audio functions.

#### NVRsolo:

9. [Axis] Dewarp function now supports Axis M3007 camera.

10. [Arecont] Fixed the bug that the display mosaic issue on Arecont AV10115 when switching to D/N mode in live view.

11. [D-Link] Corrected possible issues caused by dual stream connection with D-link DCS-2210 camera.

12. [Messoa] Messoa PRO series cameras are now correctly labeled as "Messoa Pro" cameras.

13. [Messoa] Messoa NCB858 is now correctly labeled. (previously labeled as NCR858)

14. [Sunell] Fixed the bug that the issue that causes frame rate to double when enabling audio functions.

#### Titan NVR:

1. [Axis] Dewarp function now supports Axis M3007 camera.

2. [Arecont] Fixed the bug that the display mosaic issue on Arecont AV10115 when switching to D/N mode in live view.

3. [D-Link] Corrected possible issues caused by dual stream connection with D-link DCS-2210 camera.

4. [Messoa] Messoa PRO series cameras are now correctly labeled as "Messoa Pro" cameras.

5. [Messoa] Messoa NCB858 is now correctly labeled. (previously labeled as NCR858)

6. [Sunell] Fixed the bug that the issue that causes frame rate to double when enabling audio functions.

#### NUUO Crystal™:

3. [Axis] Dewarp function now supports Axis M3007 camera.

4. [Arecont] Fixed the bug that the display mosaic issue on Arecont AV10115 when switching to D/N mode in live view.

5. [D-Link] Corrected possible issues caused by dual stream connection with D-link DCS-2210 camera.
6. [Messo] Messo PRO series cameras are now correctly labeled as "Messo Pro" cameras.
7. [Messo] Messo NCB858 is now correctly labeled. (previously labeled as NCR858)
8. [Sunell] Fixed the bug that caused the issue that causes frame rate to double when enabling audio functions.



## Release Version v3.1.0 (2014/3/5)

### Modules:

Device Pack v 3.1.0

### Supported Systems:

Mainconsole	v 4.1.12 and above*
NVRmini 2	v 1.7.1 and above**
NVRsolo	v 1.1.1 and above**
Titan NVR	v 1.6.2 and above
NUUO Crystal™	v 2.0.3 and above

\*For Mainconsole multi stream and setting function, please upgrade to Mainconsole v5.0.0 and above first.

\*\*For NVRmini 2 and NVRsolo multi stream setting function, please upgrade to NVRmini 2/NVRsolo v2.0.0 and above first.

### New Camera Supported:

<b>ACTi</b>	E96 (fisheye camera) and Generic model
<b>Alarm.com</b>	ADC-V520, ADC-V620PT and ADC-VS420
<b>Arecont</b>	AV1455, AV2146, AV2225, AV2226, AV2245, AV2246, AV3225, AV3226, AV3245 and AV3246
<b>Axis</b>	P1353-E, P1355-E, P1357, Q1931-E and Q6042
<b>Dahua</b>	IPC-HD2100 and IPC-HFW3200C
<b>DlinkCN</b>	DCS-H70-22D
<b>Fine</b>	ACM-V3103, TCP-HVB3105D and TCP-MZ602
<b>GE</b>	TVC-M1245E-2M-P
<b>Levelone</b>	FCS-3062 and FCS-4042
<b>Messoa</b>	NCR870 and NDF820
<b>Samsung</b>	SND-6084R, SNO-6084R, SNV-6012M and SNV-6084R
<b>Sony</b>	SNC-EM632R, SNC-VB635, SNC-WR630 and SNC-WR632
<b>Vision Hitech</b>	M2TiA, MTi, VD102i, VD10M2, VN10M2 and VN200i
<b>Vista</b>	VK2-1080VRDIR3V9F
<b>Vivotek</b>	FD8371EV, FE8174, FE8174V and VS8100
<b>Zavio</b>	F3215 and P6210

## FW upgrade:

<b>Arecont</b>	AV1115, AV1125, AV1145, AV1255, AV1305 , AV2115, AV2805, AV3105 and AV3115 (65225)
<b>Dlink</b>	DCS-2132LB1 (FW v2.00.05) and DCS-3112 (FW v1.11.01)
<b>Panasonic</b>	WV-SW174W (FW: 1.81)
<b>Samsung</b>	SNB-6004, SND-6084 (1.00_130316)

## New Feature:

NVRmini 2/NVRsolo:

1. Support multi stream setting function with NVRmini 2/NVRsolo v2.0.0 and above on Arecont camera and Vivotek 8000 series from DP v3.1.0.
2. Support multi stream setting function with requested cameras. (please refer to [http://www.nuuo.com/SupportCamera.php?node\\_id=4#4](http://www.nuuo.com/SupportCamera.php?node_id=4#4))
3. Support audio out function with NVRmini 2/NVRsolo v2.0.0 and above on Axis PQM series, Sony 6<sup>th</sup> generation and Vivotek 8000 series.

## Notice:

1. Fine:
  - b. ACM-V3103, TCP-HVB3105D
    - i. The camera is unable to achieve 20 fps with a resolution of 2046x1536. (camera firmware issue)
    - ii. The video stream with MJPEG format will be disconnected when disable the MJPEG option on camera's web.
    - iii. Support zoom and focus.
2. Arecont:
  - a. AV1115
    - i. DI and DO cannot work.
  - b. AV3115
    - i. DO cannot work.
3. Alarm.com:
  - a. ADC-V520
    - i. The resolution list is not synchronized with the one on camera's web. (camera firmware issue).
    - ii. The camera with high resolution and quality/ bitrate is unable achieve to 30fps with MJPEG format and TCP protocol.
    - iii. The video stream will be disconnected with a setting of MPEG4 and 20kbps bitrate.
  - b. ADC-V620PT

- i. The resolution list is not synchronized with the one on camera's web. (camera firmware issue).
  - ii. Main stream cannot achieve high fps when use high resolution (1280x720 or higher) and high quality/ bitrate.
- 4. DlinkCN
  - a. DCS-H70-22D
    - i. The resolution list is not synchronized with the one on camera's web. (camera firmware issue).
    - ii. The camera is unable to achieve 15fps or above with some resolutions. (camera firmware issue)
- 5. Dlink
  - a. DCS-2132LB1
    - i. Motion detection may not trigger continuously within short period of time. (camera firmware issue)
  - b. DCS-3112
    - i. With MPEG4 format, the resolution list is not synchronized with the one on camera's web. (camera firmware issue).
    - ii. Under multi stream function, low and min stream cannot reach 500 kbps and 100 kbps.
- 6. Panasonic:
  - a. WV-SW174W
    - i. MJPEG frame rate will be impacted by H.264 stream. If enable H.264 stream on main or low stream, MJPEG stream can only support up to 5 fps.
- 7. Zavio:
  - a. F3215
    - i. Not support MPEG4 format. (camera firmware issue)
    - ii. Audio out will stutter.
- 8. Dahua:
  - a. IPC-HFW3200C
    - i. The list of bit rate and frame rate is not synchronized with the one on camera's web. This may cause stream parameter setting fail. (camera firmware issue)
    - ii. Enable motion detection under MJPEG mode may cause liveview image to freeze.
    - iii. The audio will stutter under PCM format.
    - iv. The audio will stutter under G.711Mu and G.711A format.
    - v. With UPnP search the camera will search incorrect MAC address. (NVRMini 2/NVRsolo/Titan NVR/NUUO Crystal™)

- vi. The bit rate of the cameras is not configurable on NVRSolo/NVRMini2 v2.0.0 web client with DP v3.1.0, but can be setup with NVRsolo local site.
- b. IPC-HD2100
  - i. The list of bit rate and frame rate is not synchronized with the one on camera's web. This may cause stream parameter setting fail. (camera firmware issue)
  - ii. Enable motion detection under MJPEG mode may cause liveview image to freeze.
  - iii. With UPnP search the camera will get incorrect MAC address. (NVRMini 2/NVRsolo/Titan NVR/NUUO Crystal™)
  - iv. The bit rate of the cameras is not configurable on NVRsolo/NVRMini2 v2.0.0 web client with DP v3.1.0, but can be setup with NVRsolo local site.
- 9. VisionHitech
  - i. Main stream support H.264 format, low/min stream support H.264 and MJPEG. (NVRMini 2/NVRsolo/Titan NVR/NUUO Crystal™)
  - ii. M2TiA series under H.264 format cannot setup D1resolution. (camera firmware issue)
  - iii. It is invalid setting on brightness. (Mainconsole)
  - iv. NUUO use dual mode as default connection mode.
  - v. It does not support the resolution setting for MJPEG. (Mainconsole)(camera firmware issue)
- 10. IP Power
  - i. With NVRsolo v2.0.0 and above with DP v3.1.0 can select camera model on local site.

## Bug Fixed the bug thated:

Mainconsole:

- 10. [Hikvision] Fixed the bug thated the issue that camera will become manual focus mode when reconnecting the camera or restarting Mainconsole.
- 11. [Dlink] Fixed the bug thated the issue on DCS-5615 that the default brightness setting is not synchronized with the camera's web.
- 12. [Dlink] Fixed the bug thated the issue on DCS-942L that the stream format and frame rate is not synchronized with Mainconsole settings.
- 13. [Vivotek] Fixed the bug thated the issue on VS8401 / VS8801 that only the first channel of the camera is connectable.

NVRmini 2:

- 1. [Onvif] Fixed the bug thated the issue that Onvif/Onvif will use first profile for default connecting profile.

2. [Vitek] Fixed the bug that the UPnP search fail issue.
3. [Hikvision] Fixed the bug that the camera parameters are not changed by generic model.
4. [Axis] Fixed the bug that the camera will be disconnected when changing grid layout.
5. [CNB] Fixed the bug that the multi stream is disconnected.
6. [Centrix] Fixed the bug that the multi stream information is incorrectly displayed for generic model.

#### NVRsolo:

1. [Onvif] Fixed the bug that the issue that Onvif/Onvif will use first profile for default connecting profile.
2. [Vitek] Fixed the bug that the UPnP search fail issue.
3. [Hikvision] Fixed the bug that the camera parameters are not changed by generic model.
4. [Axis] Fixed the bug that the camera will be disconnected when changing grid layout.
5. [CNB] Fixed the bug that the multi stream is disconnected.
6. [Centrix] Fixed the bug that the multi stream information is incorrectly displayed for generic model.

#### Titan NVR:

1. [Onvif] Fixed the bug that the issue that Onvif/Onvif will use first profile for default connecting profile.
2. [Vitek] Fixed the bug that the UPnP search fail issue.
3. [Hikvision] Fixed the bug that the camera parameters are not changed by generic model.
4. [Axis] Fixed the bug that the camera will be disconnected when changing grid layout.
5. [CNB] Fixed the bug that the multi stream is disconnected.
6. [Centrix] Fixed the bug that the multi stream information is incorrectly displayed for generic model.

#### NUUO Crystal™:

1. [Onvif] Fixed the bug that the issue that Onvif/Onvif will use first profile for default connecting profile.
2. [Vitek] Fixed the bug that the UPnP search fail issue.

3. [Hikvision] Fixed the bug that the issue that the camera parameters are not changed by generic model.
4. [Axis] Fixed the bug that the issue that the camera will disconnected when changing grid layout.
5. [CNB] Fixed the bug that the issue that the multi stream is disconnected.
6. [Centrix] Fixed the bug that the issue that the multi stream information is incorrect displayed for generic model.

## Release Version v3.0.1 (2014/02/14)

### Modules:

Device Pack v 3.0.1

### Supported Systems:

NVRmini 2 v 1.7.1 and above

### Bug Fixed the bug thated:

NVRmini 2:

1. Fixed the bug thated the issue that cannot login web client.

## Release Version v3.0.0 (2014/2/5)

### Modules:

Device Pack v 3.0.0

### Supported Systems:

Mainconsole	v 4.1.12 and above*
NVRmini 2	v 1.7.1 and above
NVRsolo	v 1.1.1 and above
Titan NVR	v 1.6.2 and above
NUUO Crystal™	v 2.0.3 and above

\*For Mainconsole multi stream and setting function, please upgrade to Mainconsole v5.0.0 and above first.

### New Camera Supported:

<b>Arecont</b>	AV3145 , AV5245 and Generic model
<b>Axis</b>	M3025, M3026 and P5415
<b>Dlink</b>	DCS-6045L
<b>Dynacolor</b>	NH720-20N8 and NH820-20N8
<b>Eneo</b>	PXB-2180Z03, PXC-2080CS and PXC-2080Z03
<b>Fine</b>	CDB-HFD720, CDB-MV720F-H, CDV-MD602, CDV-P360-5 (fisheye camera), TCP-BF128, TCP-HDVB720-H and TCP-MB602
<b>Samsung</b>	SNB-5003, SNB-5004, SND-5083, SND-5084 and SNV-5084
<b>Sony</b>	SNC-EB600, SNC-EB600B, SNC-EB630B, SNC-EM601, SNC-EM602R, SNC-EM630, SNC-EM631, SNC-EM632R, SNC-VB635, SNC-VM601, SNC-VM602R, SNC-VM631 and SNC-VM632R
<b>Sunell</b>	SN-IPR54/31UDN
<b>Truen</b>	TN-B200CE, TN-B202CEIR, TN-D1202CE, TN-P1220CS, TN-P1222CGPLX, TN-P1230CS, TN-P3220CS, TN-P3220CSIR and TN-P3220CTIR
<b>Vivotek</b>	FD8137H, FD8137HV and IP8364
<b>Zavio</b>	B7510 and D4210



## FW upgrade:

<b>Axis</b>	P7210 (FW 5.50.2)
<b>Centrix</b>	Generic model (FW cx20131107NSA)
<b>Dlink</b>	DCS-3010, DCS-3714 and DCS-5222LB1(FW : v1.11.00)
<b>Eneo</b>	PXB-1080Z03, PXB-2080MIR, PXB-2080Z03, PXD-2080MIR and PXD-2080Z03 (FW 4.23.49-ds)
<b>Sony</b>	SNC-EM600, SNC-VB630 and SNC-VM630

## New Feature:

Mainconsole:

1. Support multi stream setting function with Mainconsole v5.0.0 and above on Axis PQM series, Arecont all series, Vivotek 8000 series and Samsung SNB-5003, SNB-5004, SND-5083, SND-5084 and SNV-5084 from DP v3.0.0.
2. Support multi stream function with requested cameras. (please refer to [http://www.nuuo.com/SupportCamera.php?node\\_id=4#4](http://www.nuuo.com/SupportCamera.php?node_id=4#4))

## Enhancement:

1. Adjust Samsung camera SNP-3120V, SNP-3430H, SNZ-5200, SPE-100 PTZ speed to 3 or 1.
2. D-Link China camera DCS-V70M-21H, DCS-V70M-21H2 multi-stream:
  - i. Adjust fps range from 15 to 20.
  - ii. Adjust 2<sup>nd</sup> stream resolution to 640x480.
  - iii. Adjust 2<sup>nd</sup> stream bitrate to 1000kbps.

## Notice:

11. Samsung:

- a. SNB-5003, SNB-5004, SND-5083, SND-5084 and SNV-5084 :
  - i. Support 64 preset points.
  - ii. Default value of Talk will setup to 5.
  - iii. When change audio setting on camera web, the previous connection will be interrupted and re-connect. (camera firmware issue)

12. Dynacolor

- a. NH820-20N8, NH720-20N8
  - i. When using MJPEG format, camera reply is slow. (camera firmware issue)
  - ii. It would not support motion detection when camera resolution is 1920x1080 (Low Latency). (camera firmware issue)

- iii. Camera does not support MJPEG format with 1280x720 (Low Latency). (camera firmware issue)

## 13. Sunell

- a. SN-IPR54/31UDN
  - i. Due to Onvif limitation, some framerate and bitrate cannot setup.

## 14. Fine

- a. CDV-MD602
  - i. Motion detection may fail when select 30 fps mode. (camera firmware issue)

## 15. D-Link

- a. DCS-3010
  - i. Motion detection may fail after setting camera parameter. (camera firmware issue)
  - ii. Camera may not work when setup bitrate to 8000kbps. (camera firmware issue)
  - iii. Not support dual stream.
  - iv. The live view may delay when setup high resolution. (camera firmware issue)
- b. DCS-5222LB1
  - i. Not support talk. (camera firmware issue)
  - ii. Not support preset. (camera firmware issue)
  - iii. Direction of PTZ is opposite. (camera firmware issue)
  - iv. The live view may delay when setup high resolution. (camera firmware issue)
- c. DCS-3714
  - i. Not support 8M bitrate. (camera firmware issue)
- d. DCS-6045L
  - i. It may need to reboot again after a period of time. (camera firmware issue)

## 16. Arecont

- a. Due to camera performance, camera fps may not reach to the frame rate configuration.
- b. Audio function may not work after connect/disconnect, and need to reboot camera.

## 17. Eneo

- a. Only support RTSP port 554 (camera firmware issue)
- b. Only integrate NTSC mode.
- c. Audio will be discontinuous under fps 1.
- d. Camera fps may not reach to camera setting under high resolution, frame rate and quality.
- e. Not support brightness, contrast, saturation on Mainconsole (camera firmware issue)
- f. Audio out is not supported with Mainconsole (camera firmware issue)

## Bug Fixed the bug thated:

### Mainconsole:

14. [Onvif] Fixed the bug thated the issue that causes Mainconsole error when adding cameras

### NVRmini 2:

1. [IPPower] Fixed the bug thated the issue that causes live view delay and incorrect camera fps display.
2. [Vivotek] Fixed the bug thated the issue that causes FD8136 dual stream do not display correctly.
3. [RTSP] Fixed the bug thated the issue that CPU loading will increase after audio function turn off.

### NVRsolo:

1. [IPPower] Fixed the bug thated the issue that causes live view delay and incorrect camera fps display.
2. [RTSP] Fixed the bug thated the issue that CPU loading will increase after audio function turn off.

### Titan NVR:

1. [IPPower] Fixed the bug thated the issue that causes live view delay and incorrect camera fps display.
2. [Sony] Fixed the bug thated the issue that causes Sony camera to disconnect.
3. [RTSP] Fixed the bug thated the issue that CPU loading will increase after audio function turn off.

### NUUO Crystal™:

1. [Sony] Fixed the bug thated the issue that causes Sony camera PTZ speed delay.
2. [IPPower] Fixed the bug thated the issue that causes live view delay and incorrect camera fps display.
3. [RTSP] Fixed the bug thated the issue that CPU loading will increase after audio function turn off.

## Release Version v2.20.0 (2013/12/26)

### Modules:

Device Pack v 2.20.0

### Supported Systems:

Mainconsole	v 4.1.12 and above
NVRmini 2	v 1.7.1 and above
NVRsolo	v 1.1.1 and above
Titan NVR	v 1.6.2 and above
NUUO Crystal™	V 2.0.0 and above

### New Camera Supported:

<b>Arecont</b>	AV2256 and AV2456
<b>Aver</b>	FB2027-1, FB2027-2, FB2027-3, FB2028, FB2028-T1, FB2028-T2, FB2028-TM, FB3027, FB3028-RT1, FB3028-RT2, FB3028-RTM, FD2020, FD3020, FD3020-M, FV2006, FV2028, FV3028, FV3028-RT, FV3028-RTM, FX2000, FX3000-R, SF2121H-BHR-30, SF2121H-BHR-50 and SF2121H-R
<b>Axis</b>	M3024-L, P5414, Q1765-LE, Q6044 and Q6045
<b>Dlink</b>	DCS-5222LB1
<b>DlinkCN</b>	DCS-H41-11D/I and DCS-H41-12D/I
<b>Dynacolor</b>	NA083 (fisheye camera)
<b>Fine</b>	MD-D3622Q-H, SP-HP2330Q-IP, TCP-336AM, TCP-IRH5080-50 and TCP-IRH5080-70
<b>Forenix</b>	IPB-1080BL, IPB-1080BM, IPD-1080CD, IPV-1080CD and IPX-1080DN
<b>Hikvision</b>	DS-2CD7253F-EIZ
<b>Messo</b>	NCR858, NCR878, NDF821, NDF821PRO, NDF831, NDF831PRO and NDR891PRO
<b>Pelco</b>	D5220, IL10 and IM10
<b>Sony</b>	SNC-EB630, SNC-EM600, SNC-VM600 and SNC-VM630
<b>Vivotek</b>	FD8135H, FD8164, FD8164V, SD83x4, SD83x6

### FW upgrade:

<b>Dlink</b>	DCS-2310L, DCS-2332L and DCS-6010L (FW V1.02.00)
<b>MegaIP</b>	NCD-2003PR and NMX-2003P (FW mega-web-51110.2.1262.100.bin )
<b>Santec</b>	SNC-3302, SNC-3322, SNC-4302, SNC-6202, SNC-6302,

## Sony

SNC-6315IRH and SNC-8322I/HO (firmware\_1.0.3.447)

SNC-VB600 (FW 1.9.2)

### Enhancement:

3. Add Brickcom FD-301Af and VD-301Af to 50xA model

### Notice:

#### 18. IP Power:

- a. Generic:
  - i. Focus function does not test with NUUO product.

#### 19. Hikvision:

- a. DS-2CD7253F-EIZ
  - i. Only supports zoom in/out in the PTZ-control.
  - ii. When resolution is 1600x1200 and 1600x912, the range of framerate does not synchronize with web.
  - iii. 2nd stream format must be the same with main stream except MJPEG.
  - iv. UPnP search cannot get a valid mac address. (NVRmini 2/NVR Solo/Titan NVR/NUUO Crystal™)

#### 20. Aver

- a. MJPEG could not reach to the framerate which user setups. (camera performance issue)
- b. UPNP search failure when change web port from 80 to others.

#### 21. Sony

- a. In certain scenarios i.e. under high frame rate or resolution, camera might have limitation. For further information, please visit Sony A&E Portal: <https://www.security.sony.biz/ssp/ae/homeDisplay.do> (SNC-EB630, SNC-EM600, SNC-VB600, SNC-VM600 and SNC-VM630)
- b. Audio (G726 40kbps, 32kbps, 16kbps) is non-smooth or muted with Titan NVR (SNC-VB600, SNC-VM600 and SNC-VM630)

#### 22. Messoa

- a. It takes 10 sec or more to setup parameter setting.
- b. It will get wrong parameter setting after setup.
- c. Not support talk. (Mainconsole)
- d. Not support auto detection. (NVRmini 2/NVR Solo/Titan NVR/NUUO Crystal™)

#### 23. D-Link

- a. DCS-6010L:
  - i. When finish resolution parameter setting, fisheye setting will random set back to default setting (Mount type: Desktop; Display Mode: 4R). (Mainconsole)

- b. DCS-2332L, DCS-2310L
  - i. Bitrate List will not change by select different resolution.

## 24. Vivotek

- a. FD8164
  - i. Brightness and Contrast range from -5 to 5 instead of 0 to 100 in web. (camera firmware issue)
- b. SD8316E
  - i. Brightness and Contrast range from -5 to 5 instead of 0 to 100 in web. (camera firmware issue)
- c. FD8135H
  - i. Resolution list does not synchronize with the list on web. (camera firmware issue)
  - ii. When format is setup to MPEG4, resolution is 1280 x 800 and quality is best, the maximum FPS can only reach 20. (NVRmini 2/NVR Solo/Titan NVR/NUUO Crystal™) (camera firmware issue)

## 25. Fine

- a. MD-D3622Q-H:
  - i. When use Pan speed bar to control Pan speed, Tilt speed will be the same. (Mainconsole)
- b. TCP-336AM:
  - i. When format is MPEG4, resolution is 1920 x 1080 and quality is excellent, the maximum FPS can only reach 20.

## 26. Pelco

- a. D5220
  - i. Preset point name cannot change, and will not synchronize with camera web. (Mainconsole)
  - ii. Video parameter (brightness, contrast, saturation) will not synchronize with camera web. (Mainconsole)
  - iii. When resolution or quality is high, framerate would not reach its setting. (Mainconsole)
  - iv. It may cause Mainconsole unstable when change protocol. (UDP->HTTP, HTTP->UDP)
- b. IM10 and D5220
  - i. It will need to disable second profile on web first and parameter setting can be changed.

## 27. MegaIP

- a. Getting bitrate value would not synchronize with camera web. (Camera onvif issue)

- b. Setting quality value would not synchronize with camera web. (Camera onvif issue)
- c. After setting parameter on camera, camera would restart. After it completed, then can get parameter setting.
- d. Only when http port is 80, motion detection and DI/DO can work.

## Bug Fixed the bug thated:

### Mainconsole:

1. [D-Link] Fixed the bug thated VBR setting issue.

### NVRmini 2:

1. [Fine] Fixed the bug thated the issue that TCP-HFB1080D does not support UPnP.
2. [Samsung] Adjusted SNP-5300 PTZ default speed to 3.
3. [Sony] Fixed the bug thated the issue that all Sony cameras might disconnect.

### NVRsolo:

1. [Fine] Fixed the bug thated the issue that TCP-HFB1080D does not support UPnP.
2. [Samsung] Adjusted SNP-5300 PTZ default speed to 3
3. [Sony] Fixed the bug thated the issue that all Sony cameras might disconnect.

### Titan NVR:

1. [Fine] Fixed the bug thated the issue that TCP-HFB1080D does not support UPnP.
2. [Sony] Fixed the bug thated the issue that all Sony cameras might disconnect.
3. [Samsung] Adjusted SNP-5300 PTZ default speed to 3

### NUUO Crystal™:

1. [Sony] Fixed the bug thated the issue that all Sony cameras might disconnect.

## Release Version v2.19.0 (2013/11/26)

### Modules:

Device Pack v 2.19.0

### Supported Systems:

Mainconsole	v 4.1.12 and above
NVRmini 2	v 1.7.1 and above
NVRsolo	v 1.1.1 and above
Titan NVR	v 1.6.2 and above

### New Camera Supported:

<b>3Svision</b>	N1011, N1012, N1031, N1032, N3011, N3012, N3031, N3032, N6011, N6012, N6013, N6014, N6015, N6016, N6031, N6032, N6033, N6034, N6035, N6036, N6037, N6038, N8011, N8012, N8031, N8032, N9012, N9032, N9033 and N9034
<b>Arecont</b>	AV5455DN-F, AV3456DN-F
<b>Axis</b>	M2014
<b>DigitalWatchdog</b>	DWC-MD421 and DWC-MV421
<b>Dlink</b>	DCS-2330L, DCS-2132LB1, DCS-3714, DCS-5615 and DCS-7110B1
<b>Fine</b>	TCP-HFB1080D
<b>Hikvision</b>	DS-2CD2612F-IS, DS-2CD2632F-IS, DS-2CD2712F-IS and DS-2CD2732F-IS
<b>i-Mege</b>	G1102E
<b>IP Power</b>	Generic
<b>Mobotix</b>	D15D-Sec, D15D-Sec-DNight, D15D-Sec-Night-Pano, D15D-Sec-Pano, Generic, M15D-Sec, M15D-Sec-DNight, M15M-Sec, S14D-Sec, S14D-Sec-Night, S14M-Sec, S15D-Sec, S15M-Sec and S15M-Sec-Night
<b>Neovista</b>	NV-CB1-36, NV-DP1RP-3312-15, NV-CB1R-36-6, NV-CB1RW-36-6, NV-CB3PL-28, NV-CB3WL-28, NV-DM1P-28, NV-BT3RP-3105-30 and NV-PT13RP-4-15
<b>RIVA</b>	RC1100, RC1100M, RC1202HD, RC2100M, RC2102HD, RC302HD, RC3100, RC3102HD, RC3203HD, RC3302, RC3500, RC3500M, RC3502HD, RC3502HDIR, RC3702, RC4100, RC5500, RC5510, RC6500, RC6602HD, RC6700, RC6802HD, RCC100HD, RE1000 and RE4000
<b>Sunell</b>	SN-VSR54/04
<b>Vivotek</b>	IP8173H, IP8337H and IP8336W



**Zavio** V1100

## FW upgrade:

<b>ATV</b>	IPFD2MT (FW HSNCT3-v2.1.71)
<b>Santec</b>	SNC-3305, SNC-5312IR, SNC-5315IR, SNC-6212IR, SNC-6312IRH, SNC-6315IRH (firmware_1.0.2.386)
<b>Hikvision</b>	DS-2CD7153-E

## Enhancement:

1. Add Brickcom OB-300-NP-AD with zoom and focus to 30xN model
2. Add Brickcom OSD-200 to 20xP model

## Notice:

1. IP Power:
  - a. Generic:
    - i. Focus function is not test on NUUO product.
    - ii. The maximum resolution is depends on camera.
    - iii. Some framerate and bitrate cannot setup due to Onvif restriction.
2. i-Mege:
  - a. G1102E :
    - i. No support on-edge motion when video format is MJPEG.
    - ii. Support UPnP Search after Mainconsole v4.1.18.
    - iii. Camera connection is not stable. (firmware issue)
3. Mobotix:
  - a. D15D-Sec, D15D-Sec-DNight, D15D-Sec-Night-Pano, D15D-Sec-Pano, M15D-Sec, M15D-Sec-DNight, M15M-Sec, S14D-Sec, S14D-Sec-Night, S14M-Sec, S15D-Sec, S15M-Sec and S15M-Sec-Night
    - i. Please setup on Mobotix web setting page first for display mode, ExtIO and on-edge motion.
    - ii. Not support audio when video format is MJPEG.
4. Hikvision:
  - a. DS-2CD2732F
    - i. When resolution is 2048x1536, the range of framerate does not synchronize with web.
  - b. DS-2CD7153-E

- i. When resolution is 1600x1200, the range of framerate does not synchronize with web.
- ii. Except MJPEG, 2nd stream format will be the same as main stream format.

## 5. Santec:

- a. SNC-3305, SNC-5312IR, SNC-5315IR, SNC-6212IR, SNC-6312IRH, SNC-6315IRH
  - i. When resolution is 2048x1536 and PAL mode, the range of framerate does not synchronize with web.
  - ii. With high resolution there is noise with audio.
  - iii. The bitrate of 2nd stream, minimum mode, is 200Kbps. (firmware issue)

## 6. Sunell:

- a. Audio only available on channel 1 and channel 2.
- b. DI2 cannot work correctly.

## 7. Fine:

- a. The response of camera setting is slow.
- b. Not support UPnP search on NVRmini 2, NVRsolo and Titan NVR.

## 8. Zavio:

- a. Audio in/out does not support AMR.

## 9. D-Link:

- a. DCS-2132LB1 and DCS-2330L do not support TCP/UDP. (firmware issue)
- b. DCS-2330L does not support talk. (firmware issue)

## Bug Fixed the bug thated:

### Mainconsole:

1. [Onvif/Onvif] Fixed the bug thated the issue that Mainconsole will dump when connecting.
2. [Santec] Fixed the bug thated the issue that SNC-4302, SNC-8322I/HO, SNC-3322 will dump when connecting.
3. [Fine] Fixed the bug thated the issue that TCP-MH859 does not support MJPEG with resolution 2048x1536 and 2592x1944.
4. [Vivotek] Fixed the bug thated multicast stream issue.
5. [Axis] Fixed the bug thated the issue that P8221 output cannot work.

### NVRmini 2:

1. [Fine] Fixed the bug thated the issue that TCP-MH859 does not support MJPEG with resolution 2048x1536 and 2592x1944.
2. [Vivotek] Fixed the bug thated multicast stream issue.
3. [Axis] Fixed the bug thated M3007 unable to connect issue.

4. [Axis] Fixed the bug that the issue that P8221 output cannot work.

#### NVRsolo:

1. [Fine] Fixed the bug that the issue that TCP-MH859 does not support MJPEG with resolution 2048x1536 and 2592x1944.
2. [Vivotek] Fixed the bug that the multicast stream issue.
3. [Axis] Fixed the bug that the M3007 unable to connect issue.
4. [Axis] Fixed the bug that the issue that P8221 output cannot work.

#### Titan NVR:

1. [DynaColor] Fixed the bug that the issue that Live View shows "No Data" on the iViewer issue.
2. [Hikvision] Fixed the bug that the issue that Generic model motion does not work issue.
3. [Fine] Fixed the bug that the issue that TCP-MH859 does not support MJPEG with resolution 2048x1536 and 2592x1944.
4. [Vivotek] Fixed the bug that the multicast stream issue.
5. [Axis] Fixed the bug that the M3007 unable to connect issue.
6. [Axis] Fixed the bug that the issue that P8221 output cannot work.

## Release Version v2.18.0 (2013/10/28)

### Modules:

Device Pack v 2.18.0

### Supported Systems:

Mainconsole v 4.1.12 and above  
NVRmini 2 v 1.7.1 and above  
NVRsolo v 1.1.1 and above  
Titan NVR v 1.6.2 and above

### New Camera Supported:

**Arecont** AV2455DN-F  
**ATV** HDG-M120 and IPFD2MT  
**Brickcom** MD-300Np-360 and MD-500Ap-360 (fisheye camera)  
**Dlink** DCS-940L  
**DlinkCN** DCS-V70M-21H2  
**Eneo** PXB-2080MIR, PXD-2080MIR and PXD-2080Z03  
**Etrovision** EV8582U-BL, N51A-ML, N50U-ML, N51U-ML and N71U-ML  
**Fine** TCP-MH859  
**Forenix** FBX-200CL, FBU-201LWD and FDM-200LWD  
**Hikvision** DS-2CD2212-I3, DS-2CD2612F-I, DS-2CD2712F-I  
**Honeywell** H3D1F and H3D2F  
**Levelone** WCS-0050  
**Panasonic** DG-SC385  
**Samsung** SNF-7010 (fisheye camera) and SND-3082  
**Vivotek** IP8371E

### FW upgrade:

**Forenix** FBU-200LWD, FBX-200LWD and FVD-200LWD  
**Hikvision** DS-2CD2112-(I), DS-2CD2212-I5 and DS-2CD2312-I (FW 5.0.2)  
**Sony** SNC-CH120 (FW 1.80)  
**DlinkCN** DCS-N40M-22H3, DCS-V40M-12H, DCS-N70M-21H3, DCS-N31M-21H3, DCS-V40M-32H2, DCS-V70M-11H and DCS-V70M-21H2 (VB1.0.29)

<b>Everfocus</b>	EDN1220 and EDN1320 (FW 1.0.8)
<b>Zavio</b>	B7320 (FW M3.1.5.17)

## Notice:

1. EverFocus:
  - a. EDN1220, EDN1320: Not support Mpeg4 (Firmware issue)
  - b. EDN1320: Not support 160x128 in profile3 (Firmware issue)
2. Fine:
  - a. TCP-MH859: Not support M-Jpeg with resolution 2048x1536 and 2592x1944.
3. ATV:
  - a. HDG-M120: Does not implement Audio-out (Talk)
  - b. HDG-M120: UPNP search failure if changed web port 80 to others
  - c. HDG-M120: Not support UDP connection
  - d. HDG-M120: Camera reply slowly if set maximum video parameters
  - e. HDG-M120: The bitrate of stream 3 setup will fail at 100 kbps, but work at 200 kbps.
  - f. IPFD2MT: Not support UPNP search
  - g. IPFD2MT: MJPEG could not setup 1280x1024 and 1280x720 resolution at web, but camera still reply OK.
4. Hikvision:
  - a. DS-2CD2012-I: Sub stream resolution must be smaller than Main stream resolution.
5. Sony:
  - a. SNC-CH120: Not support SolidPTZ mode
6. Brickcom:
  - a. 30xN: It does not support talk, IO on MD-300Np-360.
  - b. 30xN: It does not support MD when format is MJPEG and MPEG4 on MD-300Np-360.
  - c. 50xA: It does not support talk on MD-500Ap-360
  - d. 50xA: It does not support MD when format is MJPEG and MPEG4 on MD-500Ap-360.
7. Forenix:
  - a. It does not support UPnP and auto detection.
  - b. Camera will crash if open camera web under win XP.
  - c. The setting of brightness was wrong via CGI command. It will synchronizesetting of grayscale.
  - d. The sound is weak with audio under format G.726.
8. Etrovision:
  - a. N71U-ML, N50U-ML, N51U-ML and N50A-ML
    - i. Only support focus and zoom.

- ii. It is noise with audio.
    - iii. Only support motion under H.264.
    - iv. Not support talk.
    - v. Dual stream will disconnect if main stream sets MPEG4, 1080P and FPS over 20.
  - b. EV8582U-BL
    - i. Only support motion under H.264.
9. Zavio:
- a. Not support audio in.
10. Arecont:
- a. AV2455DN (fw65220) would reboot after connecting DO port.
  - b. AV2455DN (fw65220) cannot reach 30fps due to camera performance issue.
11. Honeywell:
- a. H3D2F: Only support Zoom and Focus, not support Pan and Tile. (Mainconsole)
  - b. H3D2F: Only support Zoom, not support Pan and Tile. (NVRmini 2, NVRsolo, Titan NVR)

## **Bug Fixed the bug thated:**

### Mainconsole:

1. [Onvif/Onvif] Fixed the bug that the issue that it will cause Mainconsole crash when get incorrect preset name.
2. [DLinkCN] Fixed the bug that the issue that it will not work on Pan, tilt with DCS-H90-31D2.
3. [D-Link] Fixed the bug that DI/DO fail issue with DCS-6915.
4. [Hikvision] Fixed the bug that the issue that it will cause crash when get incorrect RTSP video packet.

### NVRmini 2:

1. [D-Link] Fixed the bug that dual stream disconnect issue on DCS-5010L.
2. [Samsung] Fixed the bug that the issue that the motion detection does not work on SNO-7082.
3. [Vivovtek] Fixed the bug that VS8801 dual stream incorrect channel display issue.
4. [Axis] Fixed the bug that P5532-E dual stream disconnect issue.
5. [Hikvision] Fixed the bug that the issue that it will cause crash when get incorrect RTSP video packet issue.

### NVRsolo:

1. [Samsung] Fixed the bug that the issue that the motion detection does not work on SNO-7082.

2. [Vivovtek] Fixed the bug that VS8801 dual stream incorrect channel display issue.
3. [Axis] Fixed the bug that P5532-E dual stream disconnect issue.
4. [Hikvision] Fixed the bug that the issue that it will cause crash when get incorrect RTSP video packet issue.

#### Titan NVR:

1. [Fine] Fixed the bug that dual stream disconnect on WB-H814 issue.
2. [Samsung] Fixed the bug that the issue that the motion detection does not work on SNO-7082.
3. [Vivovtek] Fixed the bug that VS8801 dual stream incorrect channel display issue.
4. [Axis] Fixed the bug that P5532-E dual stream disconnect issue.
5. [Hikvision] Fixed the bug that the issue that it will cause crash when get incorrect RTSP video packet issue.

## Release Version v2.17.1 (2013/09/30)

### Modules:

Device Pack	v 2.17.1
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### Supported Systems:

NVRmini 2	v 1.7.1 and above
NVRsolo	v 1.1.1 and above
Titan NVR	v 1.6.2 and above

### Bug Fixed the bug thated:

NVRmini 2:

2. Fixed the bug that that ACTi camera dump issue.

NVRSolo:

1. Fixed the bug that that ACTi camera dump issue.

Titan NVR:

1. Fixed the bug that that ACTi camera dump issue.



## Release Version v2.17.0 (2013/09/26)

### Modules:

Device Pack v 2.17.0

### Supported Systems:

Mainconsole v 4.1.12 and above

NVRmini 2 v 1.7.1 and above

NVRsolo v 1.1.1 and above

Titan NVR v 1.6.2 and above

### New Camera Supported:

**Axis** M7010, P1214, P3353 and Q7411

**Dlink** DCS-7413 B1

**DlinkCN** DCS-N20M-10H2, DCS-N30M-51H2, DCS-N40M-53H2, DCS-N70M-20H2, DCS-N40M-32H2, DCS-V30M-50H, DCS-V30M-51H, DCS-V40M-32H, DCS-V40M-33H, DCS-V70M-20H, DCS-V70M-21H, DCS-V70M-50H and DCS-N70M-50H2

**InscapData** NVC3033H-DN and NVC360H-DN-IR

**Levelone** FCS-5061, FCS-3101 and FCS-4101

**Panasonic** BB-ST162, BB-SW172, BL-VT104W, BL-VP164W, DG-SF132, DG-SP102 and WV-SF438 (fisheye camera)

**Samsung** SNP-5300, SNP-6200RH

**Sony** SNC-CX600W, SNC-VB600B, SNC-VM600B and Generic

**Vivotek** IP8130, IP8130W, IP8131, IP8131W and SD8363E

### FW upgrade:

**Arecont** AV1115, AV1125, AV1145, AV1255, AV2115, AV3115, , AV3125, AV5125, AV10115, AV10255 (FW 65218), AV3116 (FW 65219), AV5155 (FW 65152), AV8365, AV20185 and AV20365 (FW 65183)

**Dlink** DCS-2310L (FW v1.01.10)

**Panasonic** WV-SF132, WV-SP102 (1 Application: 1.81, 2 Image date:1.03), WV-ST162, WV-SW172 (1 Application: 1.81, 2 Image data: 1.04)

**Sony** SNC-VB630 (FW 1.7.0)

**Vision Hitech** Vision M3i (FW 1.1.2.46), Vision SM3Ti (FW1.1.4.1 20130816) and Vision Mi(FW 1.1.2.46)

## Notice:

### 1. Feature added:

- a. Support Samsung camera search tool.  
Testing model:
  1. SNB-3002 / SND-3082/F / SNV-3082
  2. SNB-7002 / SND-7082/F / SNV-7082 / SNO-7082R
  3. SNV5080R
  4. SNO5080R
  5. SNB-5000A / SND5080F / SNV5080
  6. SNP-5300
  7. SNP-6200RH
- b. Dual Stream default format change to H.264 for Arecont camera and Vivotek camera.
- c. For Mini2/Solo/Titan, Arecont cameras do not use TFTP to get stream. Always use RTSP or HTTP method to get stream.
- d. Samsung dual stream structure changed. When main stream format is H264, dual stream format will be MJPEG. When main stream format is MJPEG, dual stream format will be H264.

### 2. Known issue:

- a. It cannot use G726 16kbps on Panasonic talk function.
- b. VisionHitech
  1. VISION M3Ti
    - i. It can not use Autofocus function. (camera firmware issue)
    - ii. It will not support audio setup. (camera firmware issue)
  2. VISION M3i
    - i. It can not support Quality with MJPEG. (camera firmware issue)
    - ii. The real FPS could not reach original value on Web when setup maximum setting of camera parameters, for example setting is H.264 within 1920x1080, 30 fps, and 7 quality but can get 15 fps only; setting is MJPEG within 1280x720, 30fps but can get 5~6 fps only.
3. VISION Mi
  - i. It will not support audio setup. (camera firmware issue)
  - ii. It can not support Quality with MJPEG. (camera firmware issue)
  - iii. The real FPS could not reach original value on Web when setup maximum setting of camera parameters, for example setting is H.264 within 1920x1080, 30 fps, and 7 quality but can get 15 fps only; setting is MJPEG within 1280x720, 30fps but can get 5~6 fps only.

- c. Levelone
  - 1. FCS-3101 and FCS-4101
    - i. Not support video parameter. (camera firmware issue)
    - i. Not support bitrate 20Kbps.
  - 2. FCS-5061
    - i. It will have talk audio with noise under win XP system issue.
    - ii. With the maximum value of video settings (fps, bitrate) change protocol will cause MainConsole crash.
- d. Arecont
  - 1. When use firmware 65218 Arecont camera needs to be used in close-network.
  - 2. Arecont camera might not meet the frame setting due to camera performance.
  - 3. Arecont camera's dual stream bitrate might be larger than 500kbps due to high resolution.

## **Bug Fixed the bug thated:**

### Mainconsole:

- 1. Fixed the bug that that RTSP timeout causes Samsung camera disconnect issue.
- 2. Fixed the bug that that Panasonic BL-VT164 cannot use PTZ issue.
- 3. Fixed the bug that that DynaColor V6 disconnect issue.
- 4. Fixed the bug that that Zavio P5111, P5116, P5210 PTZ speed range is not synchronize between camera setting and web.

### NVRmini 2:

- 1. Fixed the bug that that RTSP timeout causes Samsung camera disconnect issue.

### Titan NVR:

- 1. Fixed the bug that that Samsung SNP-3302/H cannot use PTZ issue.
- 2. Fixed the bug that that Hikvision Generic cannot use focus function issue.
- 3. Fixed the bug that the issue that original stream will disconnect when switch between original and low/minimized stream.

## Release Version v2.16.0 (2013/08/26)

### Modules:

Device Pack v 2.16.0

### Supported Systems:

Mainconsole v 4.1.12 and above  
NVRmini 2 v 1.7.1 and above  
NVRsolo v 1.1.1 and above  
Titan NVR v 1.6.2 and above

### New Camera Supported:

**3S** N5012

**Arecont** AV2255AM and AV5255AM

**Bosch** NBC-225-P, NDC-225-PI, NBC-255-P, NDC-255-P, NTC-255-PI, NBC-265-P, NDC-265-P, NDN-265-PIO, NBC-274-P, NBC-274-PT and NBC-274-PM

**Dlink** DCS-6004L, DCS-6005L

**DlinkCN** DCS-H70-21D/M

**Eneo** PXB-2080Z03 and PXD-2080Z03

**Grundig** GCI-H2505B, GCI-K0589T(H), GCI-K0779P, GCI-K1523VS, GCI-K1526VS, GCI-K1585V, GCI-K1586V and GCI-K2505B

**Milesight** MS-C2351, MS-C2361, MS-C2362, MS-C2372, MS-C2451, MS-C2471, MS-C2651, MS-C2661, MS-C2662, MS-C2671, MS-C2672, MS-C2681, MS-C2682, MS-C2951, MS-C3351, MS-C3356, MS-C3361, MS-C3362, MS-C3366, MS-C3372, MS-C3376, MS-C3651, MS-C3656, MS-C3658, MS-C3661, MS-C3662, MS-C3666, MS-C3671, MS-C3672, MS-C3673, MS-C3676, MS-C3678, MS-C3681 and MS-C3682

**Panasonic** BL-VP101, BL-VP104 and BL-VT164

**Samsung** SNO-6084 and SNV-6084

**Sunell** Generic model

**Vivotek** AF5127, AF5127V, SF8172, SF8172V, FE8172V (the above models are fisheye camera . SF8172 and SF8172V support PPTZ), AB5353H

## FW upgrade:

<b>Arecont</b>	AV1255 (FW 65218), AV3255 (FW 65218), AV5115DN (FW 65218), AV8185DN (FW 65183) and AV8365DN (FW 65183)
<b>CNB</b>	IDC 4000T(FW T1-1.0.13.0424) and INS 2000 (FW XNET.A1-2.01.13.0204)
<b>Dlink</b>	DCS-2103 (FW 1.20), DCS-2130 (FW 1.20), DCS-2210 (FW 1.20) and DCS-2230 (FW 1.20)
<b>Everfocus</b>	EVS-410 (Firmware upgrade to v1.0.21)
<b>Samsung</b>	SND-3082, SND-3082/F and SNB-3002 (snb3002_Series_2.10_130416), SNV-5080R (FW snv5080r_3.10_130416), SNO-5080R (FW snb5000_Series_3.10_130416) and SND-5080F, SNB-5000A and SNV-5080 (FW snb5000_Series_3.10_130416) and SNB-7002, SNV-7082, SND7082/F and SNO-7082R (FW snb7002_series_1.06_130402), SNB-6003, SNB-6004, and SND-6083 (FW snb6004_Series_1.00_130412)
<b>Sunell</b>	IPS54-70DN-ZR18, SN-IPC54-40EDN and SN-IPD54-12VDN

## Enhancement:

1. Samsung: For SNP-5200 and SNP-6200 change the default speed to 3 or 4.

## Notice:

1. Feature added:
  - a. Dual Stream default format change to H.264 for Axis MPQ series camera, Vivotek Generic model and new supported camera above (except support by design camera).
2. Known issue:
  - e. For Samsung SNB-7002, SNV-7082, SND7082/F and SNO-7082R, it will have no image issue via RTSP when Frame rate sets to 1.
  - f. For Samsung SND-3082, SND-3082/F and SNB-3002, it cannot setup video parameter: brightness.
  - g. For Samsung SNB-7002, SNV-7082, SND7082/F and SNO-7082R, the resolution will be 800\*448 & 320\*176 when sets to 800\*450 & 320\*180.
  - h. For Samsung all cameras: Video GOP appear as 1 ~15, but the value actually will be 1 ~149 in web.
  - i. For Everfocus EVS410

1. It can setup MJPEG high resolution only up to 10 fps.
  2. Not support RS-485 PTZ.
- j. For Sunell Generic
1. Focus, Talk function are not test with NUUO product.
  2. The maximum resolution is depending on camera.
  3. It cannot set some framerate and bitrate due to Onvif limitation.
  4. Camera firmwave must be v1.6\_build044014\_148 or above then can use generic model.
- k. For Grundig GCI-K1586V, GCI-K0779P, GCI-K2505B
1. It will have audio noise issue when camera resolution is 1920x1080 or Q factor is 70.
  2. It will fail when Get camera parameter resolution is 1920x1080 or Q factor is 70.
  3. GCI-K2505B framerate setting will fail when select TV system Autoir option WDR 25fps, autoir25fps and WDR 30fps.
- l. For CNB INS2000
1. Not support Digital input(DI). (camera firmware issue)
  2. Dual stream format could be MJPEG, MPEG4 or H.264. It will be same as main stream format
- For CNB IDC4000T
1. It will show incorrect bitrate "1M" when sets Video MPEG with CBR in 4000 bitrate on camera web.
  2. It will trigger DO simultaneously when trigger DI.
  3. Dual stream default format is MPEG4.
- m. For D-Link DCS-2103
1. It will not support Talk function on camera web and MainConsole. (camera firmware issue)
- n. For Mileight MS-C2351, MS-C2361, MS-C2362, MS-C2372, MS-C2451, MS-C2471, MS-C2651, MS-C2661, MS-C2662, MS-C2671, MS-C2672, MS-C2681, MS-C2682, MS-C2951, MS-C3351, MS-C3356, MS-C3361, MS-C3362, MS-C3366, MS-C3372, MS-C3376, MS-C3651, MS-C3656, MS-C3658, MS-C3661, MS-C3662, MS-C3666, MS-C3671, MS-C3672, MS-C3673, MS-C3676, MS-C3678, MS-C3681 and MS-C3682 FW issue:
1. It cannot use RateControl.
  2. It cannot trigger Motion and DI in the same time.

3. It will have no response when send cgi commend.
  4. It will not support UPnP.
  5. There is one level of difference between video parameter and camera web on Mainconsole.
- o. For Milesight MS-C3651
1. It will not support Digital input(DI). (camera firmware issue)
- p. For Milesight MS-C3658
1. It will show wrong frame rate value on Mainconsole when change resolution from 2560x1920 to other resolution.
- q. For 3SVision N5012
1. It will always show HTTP port 80 when use UPnP search.
- r. For Arecont models
1. AV5155, AV5255, AV2255 need to be connected in close-network. It will operate abnormally in open-network.
  2. AV5255, AV2255 not support audio function due to camera firmware issue.
  3. AV5255, AV2255 will have broken image when use H264 (TCP/UDP) with high bitrate setting (>16384).
  4. AV8185DN and AV8365DN
    - Four channels need to use the same protocol and format.
    - The image will flash when the main stream is MJPEG and use dual stream.
- s. For Vivotek SF8172 and SF8172V
1. Due to camera CPU decode performance issue, the first 1080p stream can reach up to 30 fps, but the second 1080p stream cannot.

## Bug Fixed the bug thated:

Mainconsole:

5. Onvif: Fixed the bug that the issue that enable auto reboot, sometimes it does not start the recording schedule.

NVRmini 2:

1. Vivotek: Fixed the bug that FE8172V auto detect issue.

## Titan NVR:

4. Fixed the bug that the issue that Generic RTSP model will disconnect in NuClient live view but it is still recording.
5. Fixed the bug that the issue when reboot Titan NVR, the IP cameras will disconnect and do not record.



## Release Version v2.15.0 (2013/07/29)

### Modules:

Device Pack v 2.15.0

### Supported Systems:

<b>Mainconsole</b>	<b>v 4.1.12 and above</b>
<b>NVRmini 2</b>	<b>v 1.7.0 and above</b>
<b>NVRsolo</b>	<b>v 1.1.0 and above</b>
<b>Titan NVR</b>	<b>v 1.6.1 and above</b>

### New Camera Supported:

<b>Dlink</b>	DCS-3511, DCS-3530, DCS-5010L, DCS-5020L, DCS-5211L, DCS-5222L, and DCS-6314
<b>DlinkCN</b>	DCS-H70-21D/M
<b>Eneo</b>	PXB-1080Z03, PXB-2080Z03IR and PXB-3080Z20
<b>Forenix</b>	C2002, C2002-W, D2000-FD3, D2000-VD3, D2000-VP2, FBU-200LWD, FBU-300LWD, FDM-300LWD, FVD-200LWD, FVD-200LWD, FVD-300LWD, T2000-FB1, T2000-FB2, T2000-VB3, VQ2100, VQ2200, VQ2210C, VQ2300 and VQ2310
<b>LG</b>	LND7300, LNP2810T, LNU5100R, LNV5100R and LNV7300
<b>Sony</b>	SNC-ER585
<b>Vitek</b>	VT-20VN-M, VTC-IR401, VTC-IR402, VTD-134FNIB, VTD-134FNIBP, VTD-134FNIWP, VTD-13FN, VTD-13V210NIB, VTD-13V210NIBP, VTD-13V210NIW, VTD-13V210NIWP, VTD-20V210NIB, VTD-20V210NIBP, VTD-20V210NIW, VTD-MV13V210NBP, VTD-MV13V210NP, VTD-MV13VR210NBP, VTD-MV13VR210NP, VTD-MV20V210NBP, VTD-MV20V210NP, VTD-MV20VR210NBP, VTD-MV20VR210NP, VT-PTZ220 and VT-PTZ220NP
<b>Vivotek</b>	FD8133V, FD8166 and FE8173 (fisheye camera)
<b>Zavio</b>	D7510
<b>3M</b>	ANPR

## FW upgrade:

<b>ACTi</b>	ACD2000Q (FW v3.04.06-AC), KCM-3911 and KCM-7911 (FW 5.10.02)
<b>Arecont</b>	AV2115DN (FW 65218) and AV3116DN (FW 65219)
<b>Dynacolor</b>	Nv223 (add motorize zoom function detect) (FW z120130417NSA)
<b>Everfocus</b>	EHN3260 (v1.2.2)
<b>Fine</b>	CDV-2M360(VB1.0.32_F, fisheye camera), CDV-5VM501(HD_VC1.0.18_F) and TCP-HDVB800(VC1.0.18)
<b>Grandstream</b>	GXV-3501 (add preset function on Mainconsole)
<b>Vivotek</b>	VS8401 (add dual stream) (0201b)
<b>Zavio</b>	P5111 and P5116 (M2.1.6.02)

## Notice:

3. Feature added:
  - b. Add preset function on Grandstream GXV3501/GXV3504.
4. Known issue:
  - t. Fine
    1. CDV-5VM501
      - i. It will have Image broken issue with MJPEG in 2592x1944 and 2048x2048 via RTSP
      - ii. Unstable stream with H.264 via RTSP
  - u. Sony SNC-ER585  
It will have image broken issue with MPEG4 texture during resolution switch. (Titan NVR)
  - v. ACTi ACD2000Q
    1. Not support framerate 8 due to camera firmware issue.
  - w. Eneo PXD-2080Z03IR
    1. Only support RTSP port 554 due to camera firmware issue.
    2. Only integrate NTSC mode due to camera firmware issue.
    3. It will have discontinuous issue on audio when fps under 1.
    4. Camera framerate may not enough under high resolution, framerate and quality settings.
    5. Not support brightness, contrast and saturation due to camera firmware issue.(IP+)
  - x. Vitek
    1. VTC-IR401, VTC-IR402
      - i. Only support RTSP port 554 due to camera firmware issue.
      - ii. Only integrate NTSC mode due to camera firmware issue.

- iii. It will have discontinuous issue on audio when fps under 1.
  - iv. Camera framerate may not enough under high resolution, framerate and quality settings.
  - v. Not support UPnP due to camera firmware issue.
  - vi. Not support brightness, contrast and saturation due to camera firmware issue.(IP+)
2. VTD-13FN, VT-20VN-M, VTD-134FNIB, VTD-134FNIBP, VTD-134FNIWP, VTD-13FN, VTD-13V210NIB, VTD-13V210NIBP, VTD-13V210NIW, VTD-13V210NIWP, VTD-20V210NIB, VTD-20V210NIBP, VTD-20V210NIW, VTD-MV13V210NBP, VTD-MV13V210NP, VTD-MV13VR210NBP, VTD-MV13VR210NP, VTD-MV20V210NBP, VTD-MV20V210NP, VTD-MV20VR210NBP and VTD-MV20VR210NP
- i. Only support RTSP port 554 due to camera firmware issue.
  - ii. Only integrate NTSC mode due to camera firmware issue.
  - iii. Camera framerate may not enough under high resolution, framerate and quality settings.
  - iv. Not support UPnP due to camera firmware issue.
  - v. Not support brightness, contrast, saturation due to camera firmware issue.(IP+)
3. VT-PTZ220NP and VT-PTZ220
- i. Only support RTSP port 554 due to camera firmware issue.
  - ii. Only integrate NTSC mode due to camera firmware issue.
  - iii. Camera framerate may not enough under high resolution, framerate and quality settings.
  - iv. It will have discontinuous issue on audio when fps under 1.
  - v. Not support UPnP due to camera firmware issue
  - vi. Preset, preset name and PTZ speed cannot synchronize to camera web due to camera firmware issue.
  - vii. Not support brightness, contrast and saturation due to camera firmware issue.(IP+)
- y. 3M
- 1. ANPR only integrate MJPEG 1<sup>st</sup> stream video.
- z. Zavio
- 1. D7510
    - i. It will only support framerate 1~15.
    - ii. It will cause delayed image and broken voice when connect stream via RTSP over HTTP in high video quality.
  - 2. P5116 and P5111

- i. It will only support pan and tilt when use PTZ.
- ii. It will not support audio when use AMR 7.95 format.
- iii. The max framerate of MPEG4 and MJPEG is up to 20 FPS in 1280x800.

## **Bug Fixed the bug thated:**

### Mainconsole:

1. Fixed the bug that UDP NVC 1000 will disconnect randomly and show "connecting" all the time.
2. Fixed the bug that when click PTZ focus panel cause terminate abnormal issue.
3. Fixed the bug that terminate abnormal issue when use Onvif null-pointer.

### NVRmini 2:

2. Fixed the bug that terminate abnormal when use Onvif null-pointer.
3. Fixed the bug that no video display by setting MJPEG and MPEG4 format with Vivotek FD8135H.

### NVRsolo:

1. Fixed the bug that cannot connect to Eneo PXD-1020F02 issue.
2. Fixed the bug that when connect Santec SNC-3302, SNC-5312, SNC-5315, SNC-6202, SNC-6212IR and SNC-6312IRH will cause solo crash issue.
3. Fixed the bug that terminate abnormal when use Onvif null-pointer.
4. Fixed the bug that no video display by setting MJPEG and MPEG4 format with Vivotek FD8135H.

### Titan NVR:

6. It will cause system terminate abnormal when connect with Bosch NTC 265PI/NDN-265PIO.
7. Fixed the bug that cannot connect Honeywell HDEZ20HDEX (firmware H20120808NSA) issue.
8. Fixed the bug that terminate abnormal when use Onvif null-pointer.
9. Fixed the bug that no video display by setting MJPEG and MPEG4 format with Vivotek FD8135H.

## Release Version v2.14.0 (2013/06/26)

### Modules:

Device Pack v 2.14.0

### Supported Systems:

Mainconsole v 4.1.0 and above  
NVRmini 2 v 1.5.0 and above  
NVRsolo v 1.0.0 and above  
Titan NVR v 1.3.0 and above

### New Camera Supported:

**ACTi** D61, E25, E66 and KCM8211  
**Arecont** AV12186  
**Brickcom** 20xp and 300N series  
**DigitalWatchdog** DWC-MPA20M  
**Dlink** DCS-6115, DCS-6315, Super Model  
**Everfocus** EMN 2320 and ETN 2110  
**Fine** C3000/C3000-W, CDV-3VM800, CDB-5VM551, CDB-MV1080F  
TCP-HP1080 and TCP-VM359  
**Samsung** SNB-6003, SNB-6004, SND-6083 and SND-6084  
**Vivotek** FD8363, FD8163 and Generic  
**Zavio** B7320 and F3210

### FW upgrade:

**ACTi** D11, D12, D21, D22, D31, D32, D41, D42, D51, D52, D54, D55, D62, D64, D65, D71, D72, D81, D82, E11, E12, E13, E21, E22, E23, E24, E26, E31, E32, E33, E34, E41, E42, E43, E44, E45, E46, E51, E52, E53, E54, E55, E56, E61, E62, E63, E64, E65, E67, E71, E72, E73, E74, E81, E82, E83, E84, E85, E86, E87, E91, E92 (FW 6.03.17) and KCM8111(FW 5.10.02)  
**Vivotek** FD8161 (FW 0105b)

## Notice:

### 5. Known issue:

#### c. ACTi

- For D and E series camera  
Fixed the bug that the Fragment IP assembly timer handler panic to reboot.
- E13 and the certificate  
It will disconnect with NUUO product abnormally.
- E84 and the certificate  
If select resolution 640x360, it will have incorrect value on parameter setting.

#### d. Samsung SND-6083

The talk from the speaker is weak.

#### e. Fine

- CDB-5VM551  
Not support MJPEG with resolution 2592x1944.
- CDV-3VM800  
It will cause image broken, and drop frame when use MJPEG with highest fps, resolution and quality through TCP connection.  
It will cause CPU heavy loading when use MJPEG with highest fps, resolution and quality through RTSP.
- TCP-HP1080  
Received only half of fps with web setting

#### f. Digital watchdog

- Not support dual stream when select single stream for ONVIF setting at webpage.
- There is a valid resolution 320x0 in profile1 at MJPEG.
- The quality value does not synchronize with webpage quality value.
- It is invalid with frame rate 0.
- There are two port settings on camera web, web port and service port. When NUUO product and camera are located in the same network, you can use this web port as configuring port on NUUO product. If NUUO product and camera are located in different network, you must choose service port. "Go to web" function on NUUO product setting page might direct to the wrong url.

#### g. D-Link

- Super Model (Tested by DCS-2332L)  
It is incorrect with Resolution List and Bitrate List information.  
Quality mode switch does not support (CBR/Fixed the bug that quality)

h. Arecont

- AV12186

DI cannot work.

i. EverFocus

- For EMN2320, no support MPEG4.
- For EMN2320, cannot switch CBR/VBR and only support VBR.
- For EMN2320, no support 720x480, 704x480 and 640x480 resolution.
- For ETN2110, motion detection is not compatible with MPEG4 codec because of camera firmware issue.

j. Zavio

- For F3210, Video resolution cannot change when only setup resolution.
- For F3210, the AMR mode of talk function cannot work.

## Bug Fixed the bug thated:

Mainconsole:

4. Sometimes click liveview will cause Mainconsole crash when using Onvif model.
5. It will fail when Arecont AV-8365DN change format from MJPEG to H264.

NVRmini 2:

1. Samsung 3082:

- (1) The resolution is not listed correctly under camera parameters.
- (2) The selected frame rate is not being achieved.
- (3) Latency in live view

## Release Version v2.13.0 (2013/05/27)

### Modules:

Device Pack v 2.13.0

### Supported Systems:

Mainconsole v 4.1.0 and above  
NVRmini 2 v 1.5.0 and above  
NVRsolo v 1.0.0 and above  
Titan NVR v 1.3.0 and above

### New Camera Supported:

**ACTi** D22, D62, E13, E22, E23, E24, E26, E33, E34, E43, E44, E45, E46, E54, E63, E64, E65, E67, E73, E74, E83, E84, E85, E86 and E87

**Arecont** AV3146 and AV3256

**Centrix** Generic

**CNB** ISMC1063P

**DigitalWatchdog** MD421TIR

**Dlink** DCS-942L

**Dynacolor** Generic

**Everfocus** EDN 1220, EDN 1320, EMN 2220, EPN 4220

**Fine** ACM-B3000 and ACM-R3006, CDV-5VM501 and TCP-VM559

**Guardeon** GDN-D3200IR, GDN-D3200V, GDN-F1300V, GDN-H1300IR and GDN- H3200IR

**Network Camera** C3000 and C3000-W

**JVC** VN-T16, VN-T216, VN-H657U and VN-H657WPU

**Techson** TC-IP213WS

**UDP** IPN100HD, IPN1202HD, IPN2102HD, IPN302HD, IPN3102HD, IPN3202HD, IPN3502HD, IPN3502HDIR, IPN6602HD, IPN6802HD, IPX3302HD, IPX3702HD, IPX4202HD and IPX4602HD

**Vivotek** IP8152

**Zavio** D7320

### FW upgrade:

Eneo GXC-1710M (upgrade to FW 2.11)



## Notice:

### 6. Known issue:

#### k. ACTi For D and E series camera:

- NUUO recommend customers use CLOSE network environment as ACTi may shut down and restart automatically in some complex network environment.
- ACTi will continue to figure out the reason and help to solve this issue.
- The audio stream of E13 unstable sometimes, even though in VLC and web.

#### l. Centrix Generic model:

- The bitrate of dual stream cannot come to 500kbps when main stream setting is MJPEG and CIF.
- Parameter setting will fail when enable multi-stream and resolution higher than 1080p.
- Camera firmware must be cx20130506NSA or above then can use generic model.

#### m. DynaColor Generic model:

- Parameter setting will fail when enable multi-stream and resolution higher than 1080p.
- Camera firmware must be z120130417NSA or above then can use generic model.

#### n. Fine CDV-5VM501 not support UPnP search by camera firmware issue.

#### o. NetworkCamera C3000 and C3000-W not support UPnP search by camera firmware issue.

#### p. TC-IP213WS:

- Can not trigger motion alarm under H.264 1fps.
- Can not search camera by UPnP when change http port except 80.
- H.264 fps may not enough under TCP connection in high quality and frame rate settings.

#### q. Digital Watchdog MD421TIR

- Not support Zoom, Focus, Talk and VideoParamSetting(MainConsole only)
- Not support dual stream when select single stream for ONVIF setting at webpage.
- Setting frame rate to 0 did not work.
- MJPEG with resolution 320x240 is invalid.
- Quality value is not synchronized with webpage.
- There are two port settings on camera web, web port and service port. When NUUO product and camera are located in the same network, you can use this web port as configuring port on NUUO product. If NUUO product and camera are located in different

network, you must choose service port. Or "go to web" function on NUUO product setting page might direct to the wrong URL.

r. CNB ISMC1063P

- Not support audio codec G.726 when using TCP connection.

s. Arecont AV3146DN-3310-D and AV3256PM

- The streaming has low FPS under high quality.

t. JVC VN-H657U

- Firmware Issue: MJPEG video stream is unstable over high resolutions such as 1920X1080, 1280x720.

u. JVC VN-T16U

- Firmware Issue: MJPEG video stream is unstable over high resolutions such as 1920X1080, 1280x720.
- Firmware Issue: The Encoder parameters may not synchronize camera web.

v. JVC VN-H57

- Firmware Issue: MJPEG video stream is unstable over high resolutions.

w. JVC VN-H137

- Firmware Issue: H264 video stream is unstable over low frame rate.

x. Zavio D7320

- Talk function cannot work due to firmware issue.
- When change the HTTP port from 80 into 8080, camera send IP address which including parentheses, such as [192.168.1.66].
- When setting highest video setting with H.264, the fps could not reach up to 20.

y. UDP

- When used UPnP search, if changes the HTTP port from default 80 into 8080 and reboot the camera, it does not carry any port information with reply message.
- IPN3502HD
  - i. When setting highest video setting in main stream, the second stream will unstable and cannot work both in H.264 and MJPEG.
- IPX4202HD

- i. cgi load failure: #402
  - ii. Audio with choppy in higher video setting
  - iii. Motion detection cannot disable once it trigger
  - iv. Unstable stream with highest video setting, sometimes does not work.
- z. EverFocus EDN1220, EDN1320, EMN2220 and EPN4220
- Not support MPEG4.
  - Can not switch CBR/VBR and only support VBR.
  - EDN1320 no support 720x480, 704x480 and 640x480 resolution.
- aa. Vivotek IP8152
- CGI returns a wrong PTZ capability.

## **Bug Fixed the bug thated:**

### Mainconsole:

- 6. Hikvision 8254: support third stream, preset function can not synchronize with Mainconsole.
- 7. Hikvision DS-6716HWI: Can not connect the camera except channel 1(Generic).
- 8. Grandstream GXV3501: Remove "Clean All" Button from Add Preset Point.

### NVRmini 2:

- 2. Hikvision 8254: Preset function can not synchronize with NVRmini2.
- 3. Hikvision DS-6716HWI: Can not connect the camera except channel 1(Generic).

### Titan NVR:

- 1. Hikvision 8254: Preset function can't synchronize with Titan NVR.
- 2. Hikvision DS-6716HWI: Can not connect the camera except channel 1(Generic).

### NVRSolo:

- 1. Yodor YUC-H626: Can not auto detect this model.

## Release Version v2.12.0 (2013/04/29)

### Modules:

Device Pack v 2.12.0

### Supported Systems:

Mainconsole v 4.1.0 and above  
NVRmini 2 v 1.5.0 and above  
NVRsolo v 1.0.0 and above  
Titan NVR v 1.3.0 and above

### New Camera Supported:

**ACTi** D11, D12, D21, D31, D32, D41, D42, D51, D52, D54, D55, D64, D65, D71, D72, D81, D82, E11, E12, E21, E31, E32, E41, E42, E51, E52, E53, E55, E56, E61, E62, E71, E72, E81, E82, E91 and E92

**Axis** M3007 (fisheye camera)

**CNB** IBP5030CR, IDC4050F, IDC4050IR, IDC4050VF, IDC4050VR, IDP4030VR, IDP5035VR, IGC2050F, IGP1030, IGP2035F, ISS4032Z28W, IVC5055VR, IVP4030VR, IVP5035VR, IXC2050IR, IXP3035VR, NGE2055F, NXE3055VR, NXE3055MR, NDE5055MF, NVE5055VR, NVE5055MF and NDE5055VR

**Dahua** IPC-HDBW3101, IPC-HDB3101 and IPC-HFW3101C

**Dlink** DCS-2332L, DCS-3715, DCS-3716, DCS-6010L (fisheye camera), DCS-6616, DCS-6817B1, DCS-6915 and DCS-7513

**Etrovision** EV8180A, EV8580A, EV8581A, EV8780A, EV8781A and EV8782A

**Fine** ACM-V3002

**Hikvision** DS-2CD2012-I, DS-2CD2112-(I), DS-2CD2212-I5 and DS-2CD2312-I

**i-Mege** B3210E, G2212E, G2213E, G2214H, G3211E, N3211E and V2211E

**Network Camera** 3MP\_BOX, 3MP\_FD, 3MP\_IR and 3MP\_VD

**On Electronics** CFB-10MP (IP+ only), CFB-13MP, CFB-20MP, CFB-30MP, CFV-20MP/LIR35 (IP+ only) ,CFV-13MP/LIR35, MDV-10MP (IP+ only), MDV-20MP, MDV-20MP-AV (IP+ only), MDV-30MP, MDV-30MP-AV (IP+ only), MDV-13MP/LIR20 (NAS only)

**Planet** ICA-H652-PA-220

**Saerim** SR-IDC4050IR, SR-IDC4050VR, SR-IDC4050F, SR-IGC2050F, SR-IVC5055VR, SR-IDC4050VF, SR-IXC2050IR, SR-IGP2035F, SR-IDP4030VR, SR-IXP3035VR, SR-ISS4032Z28W, SR-IVP4030VR, SR-NGE2055F, SR-NXE3055VR, SR-NXE3055MR, SR-NDE5055VR, SR-NDE5055MF,

<b>Sunell</b>	SR-NVE5055VR, SR-NVE5055MF SN-IPV54/31UDN, SN-IPC54/31EDN, SN-IPR54/31AKDN, SN-IPR54/31APDN SN-IPD54/31VDN, SN-IPD54/31VDR, SN-IPV54/31ZDR, SN-IPV54/31UDR, SN-IPC54/14EDN, SN-IPR54/14AKDN, SN-IPR54/14APDN, SN-IPD54/14VDN, SN-IPD54/14VDR, SN-IPV54/14ZDR and SN-IPV54/14UDR
<b>Vivotek</b>	PD8136
<b>Zavio</b>	D5210 and D7210

## FW upgrade:

<b>Bosch</b>	NTC-265-PI and NDN-265-PIO (upgrade to FW 5.70.0311)
<b>Levelone</b>	WCS-6020 (upgrade to FW 1.1.4.1) and WCS-6050 (upgrade to FW 1.0.4.2)
<b>Santec</b>	SNC-3302, SNC-3305, SNC-5312IR, SNC-5315IR, SNC-6202, SNC-6212IR, SNC-6302, SNC-6312IRH and SNC-6315IRH (upgrade to FW 1.0.2.332)
<b>Samsung</b>	SND-5010, SNB-5001, SND-5011, SND-5061, SNB-7001, SNB-7002, SND-7011, SND-7061, SND-7082 and SNV-7082 add bitrate option on H.264 3072/5120/6144/7168/9216/11264/12288/13312/14336

## Notice:

### 7. Known issue:

#### bb. ACTi For D and E series camera:

- NUUO recommend customers use CLOSE network environment as ACTi may shut down and restart automatically in some complex network environment.
- ACTi will continue to figure out the reason and help to solve this issue..

#### cc. iMege G2212E : If http port does not 80, UPnP search will fail.

#### dd. LevelOne WCS-6020, WCS-6050

- When select high resolution, camera's frame rate will less than 30fps.
- PTZ Home will stop when disable the home button at titan.
- Image broken at high resolution.
- Not support AAC codec.

#### ee. D-Link

- DCS-3715

- Sometimes video setting can't get the correct parameters2. Camera web setting is very unstable and got slowly respond, especially in higher video parameter

- ii. When 1920x1080, 25 fps, and 8M bitrate, will get incorrect parameter or long respond time
  - iii. cgi respond slowly.
- DCS-6817B1
  - i. PTZ Autopan does not work
  - ii. When enable mic only, the camera does not send any audio package.
- DCS-6915
  - i. Not support talk
- DCS-2332L
  - i. In H.264 format, setting 1 fps and under 512kbps with max resolution cause unstable connection.
- ff. Dahua
  - IPC-HDBW3101, IPC-HDB3101 and IPC-HFW3101C
    - i. FW issue, bit rate range is different between camera web and response to cgi.
- gg. Hikvision
  - DS-2CD2012-I
    - i. DS-2CD2012-I FW issue: not support PTZ function but web setting can enable this option.
- hh. Planet
  - ICA-H652-PA-220
    - i. Camera response slow.
    - ii. IO trigger time will delay about 3 secs.
    - iii. Audio has some noise in web site.
- ii. Santec
  - SNC-6302, SNC-3305, SNC-63115IRH
    - i. M-JPEG on high resolution and quality may not get parameter.
    - ii. Audio has some noise in high resolution.
- jj. Sunell SN-IPV54/31UDN:
  - FW issue: Camera will reboot when MJPEG 2048x1536, 1920x1080 and quality 9.
- kk. Bosch NDN-265-PIO:
  - It can't set resolution below 1280x720 when stream2 property set to "Copy Stream 1".
  - When H.264 quality is set to "0", the camera will Auto-adjust the quality setting. For minimum quality, the value should be "100".
  - Audio AAC can't work due to NUUO platform issues.
- ll. Etrovision EV8180A, EV8580A, EV8581A, EV8780A, EV8781A and EV8782A
  - Not support Talk.
  - With four profiles mode only support resolution 640x480. (camera limitation)

- Not support MPEG4 in NVRmini 2/NVRsolo/TitanNVR.
- Motion Detection only works on H.264.
- It needs to reboot after changing HTTP port.

mm. Fine ACM-B3000, ACM-V3001, ACM-V3002, ACM-R3002

- MJPEG only support when MPEG4/H264's resolution is lower than 1280x720 in Mainconsole.

nn. CNB

- IGC2050F, IDC4050F, IDC4050IR, IDC4050VF, IDC4050VR, IVC5055VR and IXC2050IR
  - i. FW issue: cannot set bitrate 128kbps when the resolution is D1 or VGA.
  - ii. When selects MJPEG, 1fps, the actually received fps is 6.
- IGP1030, IBP5030CR, IVP4030VR and IDP4030VR
  - i. In the MJPEG format, the fps is not enough when resolution is XGA or SXGA.
- IGP2035F, IDP5035VR, ISS4032Z28W, IVP5035VR, IXP3035VR
  - i. Cannot set bitrate 128kbps when the resolution is D1 or VGA. It is firmware issue.
- NGE2055F, NDE5055MF, NDE5055VR, NVE5055MF, NVE5055VR, NXE3055MR, and NXE3055VR
  - i. Not support UDP connection.
  - ii. Video connection cannot establish when the setting of bitrate is 9M or 10M.

oo. Saerim

- SR-IGC2050F, SR-IDC4050F, SR-IDC4050IR, SR-IDC4050VF, SR-IDC4050VR, SR-IVC5055VR and SR-IXC2050IR
  - i. Cannot set bitrate 128kbps when the resolution is D1 or VGA. It is firmware issue.
  - ii. When it selects MJPEG, 1fps, the actually received fps is 6.
- SR-IGP2035F, SR-IDP4030VR, SR-ISS4032Z28W, SR-IVP4030VR, and SR-IXP3035VR
  - i. Cannot set bitrate 128kbps when the resolution is D1 or VGA. It is firmware issue.
- SR-NGE2055F, SR-NDE5055MF, SR-NDE5055VR, SR-NVE5055MF, SR-NVE5055VR, SR-NXE3055MR, and SR-NXE3055VR
  - i. Not support UDP connection.
  - ii. Video connection cannot establish when the setting of bitrate is 9M or 10M.

pp. Zavio D5210 and D7210

- The audio function of AMR7.95 cannot work.
- The talk function with AMR codec cannot work.
- The max frame rate of MPEG4 is up to 20 FPS in 1280x800. It is the limitation of hardware.

## Bug Fixed the bug thated:

Mainconsole:

9. Forenix\_ACDV-3VM501: can't not choose h264 video format, cause by auto detect incorrect vendor and model name in DP 2.7 and behind, solve by add model name in corresponding function.

10. Samsung SPE-100: Incorrect maximum fps support.

NVRmini 2:

4. VisionHitech Mi series can't connect.

Titan NVR:

3. Hikvision\_DS-6101HFI-IP: LiveView do not have image.

4. Hikvision\_DS-2CD752MF-FB: LiveView do not have image when change stream profile from original to low or min.

5. VisionHitech Mi series can't connect.



## Release Version v2.11.0 (2013/03/26)

### Modules:

Device Pack v 2.11.0

### Supported Systems:

Mainconsole v 4.1.0 and above  
NVRmini 2 v 1.5.0 and above  
NVRsolo v 1.0.0 and above  
Titan NVR v 1.3.0 and above

### New Camera Supported:

**ACTi** KCM8111  
**ADT** ADT-VSDVS-4C, ADT-VSDVZ5MP-VF3090IRI and ADT-VSDVZ5MP-VF3090IRO  
**American Dynamics** ADCi600-D131  
**Bosch** NDC-225, NWC-455, NWC-495, NWD-455, NWD-495 and VIP-X1XF-E  
**CNB** IDC4050VR, IDP5035VR, IVC5055VR, IVP5035VR, IXC2050IR, IXP3035VR, NDE5055VR, NVE5055VR and NXE3055VR  
**Dlink** DCS-2136L, DCS-3010, DCS-5010L  
**Dlink CN** DCS-N70M-21H3, DCS-V70M-21H2, DCS-V70M-11H, DCS-N40M-22H3, DCS-V40M-12H, DCS-V40M-32H2, DCS-N31M-21H3, DCS-V30M-51H2, DCS-N62-40H2, DCS-N40M-81H3  
**Etrovision** EV8180Q-XD and EV8782Q-BD  
**Fine** ACM-R2001, CDB-MV720F, CDV-P360 (Fisheye camera, support on Mainconsole only), TCP-HFB720  
**Hikvision** Generic model support second stream  
**LevelOne** FCS-1132, FCS-3052, FCS-5052 and FCS-5062  
**Saerim** SR-IDC4050F, SR-IDC4050VR, SR-IDP4030VR, SR-IGC2050F, SR-IGP2035F, SR-NDE5055VR, SR-NGE2055F, SR-NVE5055VR ,SR-IXP3035VR and SR-NXE3055VR  
**Sunell** SN-IPC54/40EDN, SN-IPD54/40VDN, SN-IPR54/40AKDN, SN-IPR54/40APDN, SN-IPV54/40UDN and SN-IPV54/40UDR  
**Techson** TCIP-Typ213MDN22x  
**Zavio** F3102, F3107, F3115

## FW upgrade:

**Sony** SNC-CH210 (FW v1.78) , SNC-CH260 (FW v1.78), SNC-DH120 (FW v1.78) and SNC-ER550 (FW v1.78)

## Notice:

### 8. Known issue:

qq. American Dynamics ADCi600-D131

- Not support UPnP search.
- Not support motion detection at MJPEG mode.

rr. Fine CDB-MV720F

- Frame rate cannot reach 30fps.

ss. Fine ACM-R2001

- Frame rate may not enough about 2~8 fps because of camera design.

tt. Sunell SN-IPC54/40EDN

- MJPEG 2592x1920 will image broken due to camera FW issue.
- Camera will reboot when MJPEG 2048x1536 and quality 9 due to camera FW issue.

uu. Sunell VSR54/01

- MJPEG 2592x1920 will image broken due to camera FW issue.
- DI can't work correctly due to camera FW issue.

vv. Etrovision EV8180Q-XD, EV8782Q-BD

- Not support Talk.
- Under four profile mode only support resolution 640x480. (camera limitation)
- Not support MPEG4 in NVRmini 2/NVRsolo/TitanNVR.
- Motion Detection only works on H.264.
- It needs to reboot after changing HTTP port.

ww. LevelOne FCS-1132, FCS-3052, FCS-5052, FCS-5062

- The Motion Detection of MPEG4 is error.
- In Night mode, the Saturation cannot set. It is FW issue. (FCS-5062)

xx. Sony SNC-CH210, SNC-CH260, SNC-DH120, SNC-ER550

- Dual stream cannot enable when H.264, 30fps, 1280x720(SNC-CH210, SNC-DH120, SNC-ER550) or H.264, 30fps, 1920x1080(SNC-CH260) is selected for Image1.
- The number of connection is 1 for JPEG and 2 for H264 and MPEG4 at the same time.
- The PTZ function only support zoom in/out, focus near/far and auto focus function. (SNC-CH260, SNC-DH120)
- The connection cannot established with high probability when selected JPEG, high resolution and high quality. (SNC-DH120, SNC-ER550)

yy. Zavio F3102, F3107, F3115

- Under AMR 7.95 mode cannot use talk and audio function.
- The max frame rate of MPEG4 is up to 20 FPS in 1280x800. It's camera limitation.

zz. D-Link

- DCS-2136L:
  - i. Constant bit rate cannot set bigger than 4M
  - ii. In camera web video setting and NUUO camera setting page, when mode is MJPEG, set the Fixed the bug thated quality to "Excellent" and save, then change the Mode to H.264, the "Fixed the bug thated quality" should also be "Excellent", but the "Good" option is show up due to camera FW issue.
  - iii. When select resolution "176x144", it will display incorrect image
- DCS-3010:
  - i. Firmware Issue: Not support Talk
  - ii. Firmware Issue: Bitrate setting  
(more than 2Mkbps will cause broken-image and image delay)

aaa. D-Link China:

- DCS-N62-40H2
  - i. Firmware Issue: Not support Motion Detection
  - ii. Firmware Issue: Bitrate List on web shows 3Mkbps  
(the truly Bitrate value of camera could be 3Mkbps or 2.5Mkbps)
  - iii. Speed setting only support pan speed(synchronized with Tilt speed)
- DCS-N40M-81H3
  - i. Not support TCP/UDP

bbb. Hikvision Generic model:

- The camera setting will be failed, when sub stream resolution bigger than main stream resolution in Rapter platform.

ccc. ADT-VSDVS-4C

- Talk can't be use after setup audio codec.
- Tilt up and down can't be use.
- Name of preset point only support a-z A-Z @-\_!

ddd. ADT-VSDVZ5MP-VF3090IRI and ADT-VSDVZ5MP-VF3090IRO

- Audio codec is wrong under AMR.
- Camera may not connect under highest resolution, highest bit rate and lower frame rate.
- Tilt up and down cannot use.

eee. TCIP-Typ213MDN22x

- Not support auto detection.
- Not support DI/DO and audio.

- Not support setup PTZ speed.
- Video stream will have low frame rate with high quality under MJPEG.
- Not support UPnP search.(Mainconsole)
- The frame rate does not synchronize with web under MJPEG.

fff. Bosch NWD-495, NWC-495, NWD-455, NWC-455

- Auto detect model unsupported
- H.264 supports up to a maximum of 2CIF as this utilizes the Baseline Profile.
- When H.264 quality is set to '0', the camera will auto-adjust the quality setting. For minimum quality, the value should be '100'.
- When MJPEG quality is set to '0', the camera will auto-adjust the quality setting. For minimum quality, the value should be '1'.
- MJPEG frame rate depends on camera load. Value in settings dialog is not representative of actual frame rate

ggg. Bosch NDC-225

- When H.264 quality is set to '0', the camera will auto-adjust the quality setting. For minimum quality, the value should be '1'.
- MJPEG quality depends on camera load. Value in settings dialog is not representative of actual quality.
- Audio Codec support g711, not support L1, AAC.

hhh. Bosch VIP X1 XF E

- When H.264 quality is set to '0', the camera will auto-adjust the quality setting. For minimum quality, the value should be '1'.
- MJPEG quality depends on camera load. Value in settings dialog is not representative of actual quality.
- Audio Codec support g711, not support L1, AAC.
- The resolution of profile-2(Mjpeg) will be limited to CIF, if the resolutions of profile-0(h264) and profile-1(h264) set by CIF.
- H.264 video stream supports maximum resolution of 704x576 (PAL) and 704 x 480 (NTSC) only. Full D1 (720 x 576) is not supported.

iii. Histream HH9801B-MPC-TD(HIHD\_T\_IR)

- (MainConsole)Firmware Issue: Not support Motion Detection, DI, DO, video setting(Brightness/Contrast/Saturation)
- (Mini2/Titan/Solo) Only support main stream video, camera setting(1920x1080, 1280x960, 1280x720). The other resolution not mentioned above are not supported.

## Bug Fixed the bug thated:

## Mainconsole:

1. Zavio V111T: The zoom in/out cannot stop.
2. Sunell: DI can't work. (except VSR54/01 fw issue can not Fixed the bug that)
3. Bolide: DI can't work.
4. Brickcom VS-01Ap: Cannot PTZ via joystick.
5. JVC VN-H\*: Connect by http will cause CPU loading high, disable it.

## NVRmini 2:

1. Grundig\_GCI-K0523T, Grundig\_GCI-H0503B: After selected H.264 video format in NVRmini2, the video format will back to MJPEG.
2. Vivotek VS8801: There is no image for dual stream.
3. Sunell: DI can't work. (except VSR54/01 fw issue can not Fixed the bug that)
4. Bolide: DI can't work.
5. CNB IXC2050IR and IDC4050VR: disconnect after several hours.
6. JVC VN-H\*: Connect by HTTP will cause CPU loading high (camera FW issue). NUUO suggest not connect via HTTP.

## Titan NVR:

6. Vivotek VS8801: There is no image for dual stream.
7. Sunell: DI can't work. (except VSR54/01 FW issue cannot Fixed the bug that)
8. Bolide: DI can't work.
9. CNB IXC2050IR and IDC4050VR: disconnect after several hours.
10. JVC VN-H\*: Connect by HTTP will cause CPU loading high (camera FW issue). NUUO suggest not connect via HTTP.

## Release Version v2.10.0 (2013/02/26)

### Modules:

Device Pack v 2.10.0

### Supported Systems:

Mainconsole	v 3.5.0 and above
NVRmini 2	v 1.5.0 and above
NVRsolo	v 1.0.0 and above
Titan NVR	v 1.3.0 and above

### New Camera Supported:

<b>ADT</b>	ADT-VSDVZ3MP-VF3010IRO
<b>Beward</b>	N100, N120, N300, N320, N600 and N630
<b>CNB</b>	IDP5035VR, IGC2050F, IGP2035F, IVP5035VR, IXP3035VR and NGE2055F
<b>Dynacolor</b>	NA083(IP+ only)
<b>Dlink</b>	DCS-2210, DCS-5020L
<b>Eneo</b>	PXD-1010F02 and PXD-1020F02
<b>Honeywell</b>	HDZ20HD, HDZ20HDE, HDZ20HDEX and HDZ20HDX
<b>Vivotek</b>	CC8130, FD8151V and IP8372
<b>Zavio</b>	B5010, B5111, B5210, D3100, D3200, D5112, F7210 and F3110

### FW upgrade:

<b>Levelone</b>	FCS-4041, WCS-6020 and WCS-6050
<b>Panasonic</b>	WV-SC385 and WV-SP105
<b>Sunell</b>	SN-IPD54/12VDN
<b>D-Link</b>	DCS-7413, DCS-6511

### Onvif support:

1. For ONVIF partner, NUUO only guarantee camera video connection (1st stream) with ONVIF test report.
2. Onvif Product line support: Titan(Profile S v12.06), Mini2(Profile S v12.06), Mini (Onvif v1.01) Solo (Profile S v12.06) and Mainconsole(Profile S v12.06)

## Notice:

### 9. Known issue:

jjj. Sunell SN-IPD54/12VDN Can't test DI due to HW broken.

kkk. CNB IGP2035F/IXP3035VR/IDP5035VR/IVP5035VR, Failed to set bitrate to 128k over VGA/D1.

### III. ADT ADT-VSDVZ3MP-VF3010IRO

1. Audio codec is wrong under AMR.

2. Camera may not connect under highest resolution, highest bitrate and lower framerate.

### mmm. D-Link

1. DCS-6511: camera framerate is lower than user setting.

2. DCS-7413: When framerate is 1, camera connection isn't stable.

Not support MPEG4, TCP, UDP

3. DCS-5020L: (Titan/Mini2) Not support Audio

4. DCS-2210: Camera web and MainConsole can't be set simultaneously.

nnn. DynaColor NA083 Parameter setting will fail when Mjpeg quality bigger than 60

ooo. Eneo PXD-1010F02,PXD-1020F02 Parameter setting will fail when Mjpeg quality bigger than 60

ppp. Honeywell HDZ20HD,HDZ20HDE,HDZ20HDEX,HDZ20HDX Parameter setting will fail when Mjpeg quality bigger than 60

aa. OEM N73200, the AMR mode of audio doesn't work correctly and the frame rate of MPEG4 is up to 20 due to the limitation of hardware.

### bb. Zavio

1. For F7210, due to audio and PTZ malfunction, the two functions can't be verified unless new camera sample is provided. Thus, audio and PTZ function for F7210 is not guaranteed.

2. For D3100, there is no audio and the UPNP doesn't include port settings. The two are known as FW issue.

3. For D3200 and F3110, the AMR mode of audio doesn't work correctly and the frame rate of MPEG4 is up to 20 due to the limitation of hardware.

4. For B5210, the frame rate is not enough when using TCP and HTTP connection.

### cc. Beward

1. For N300/320, only camera link is received for camera intergration. Thus, NUUO only guarantee video function.

2. For N100/120, audio will be disappeared after switch settings for a few times. (FW issue)

qqq. LeveOne

- For FCS-4041, High video parameter causes slow CGI command response.

## Bug Fixed the bug thated:

Mainconsole:

- Fixed the bug that Zavio F210A motion detection cannot be triggered.

NVRmini 2:

- None

Titan NVR:

- Fixed the bug that Titan can't login after connecting Samsung SNB-1001 several hours.



## Release Version v2.9.5 (2013/02/01)

### Modules:

Device Pack	v 2.9.5
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### Supported Systems:

Mainconsole	v 3.5.0 and above
NVRmini 2	v 1.5.0 and above
Titan NVR	v 1.3.0 and above

### New Camera Supported:

none

### Bug Fixed the bug thated:

Mainconsole:

- Mainconsole would probably occur unexpected crash when first launch.

## Release Version v2.9.0 (2013/01/21)

### Modules:

Device Pack v 2.9.0

### Supported Systems:

Mainconsole v 3.5.0 and above

NVRmini 2 v 1.5.0 and above

Titan NVR v 1.3.0 and above

### New Camera Supported:

<b>3Svision</b>	S4071
<b>Arecont</b>	AV1145-04-W, AV1145-3310-D, AV1145-3310-W, AV1255, AV2145-04-D, AV2145-04-W, AV2145-3310-D, AV2145-3310-W, AV3255 and AV10255
<b>AXIS</b>	M1013, M1144, M3006, P1204, P1354 and Q7424
<b>Beward</b>	N100, N120, N300, N320, N600 and N630 (Mainconsole support only)
<b>Bullwark</b>	BLW-510MP-BS
<b>Dlink</b>	DCS-5605, DCS-5635, DSC-932L, DCS-6210, DCS-7110, DCS-2230, DCS-6513 and DSC-6915
<b>Everfocus</b>	EDN2210 and EPN4220
<b>Fine</b>	3MP_BOX, 3MP_FD, 3MP_IR,3MP_PT, 3MP_VD and CDB-HD280
<b>Forenix</b>	C2200, C2200-W, FBX-200, FBX-300WD, FDM-200, FDM-300WD, FVD-200, FVD-300WD, M0202-BH01, M0202-BH02, M0202-BH03, M7202-DB03, M4202-DB03 and M4202-DB02
<b>Hikvision</b>	DS-2DF1-572
<b>Levelone</b>	WCS-6020 and WCS-6050
<b>MegaIP</b>	NCD-2003PR and NMX-2003P
<b>Messoa</b>	NCB855, NCC800 and NIC950
<b>NTIC</b>	HVS-D1-V3
<b>OEM</b>	N73110
<b>Probe</b>	PID-H1300
<b>Samsung</b>	SND-5010
<b>Santec</b>	SNC-3305, SNC-5315IR, SNC-6202 and SNC-6315
<b>Sunell</b>	IPS54/71DN/Z18 and IPS54/80DR
<b>TP-LINK</b>	TL-SC3130v2 and TL-SC3130Gv2
<b>VisionHitech</b>	Vision SM3Ti
<b>Vivotek</b>	IP8172

<b>Yudor</b>	YUC-H626, YUC-H7926 and YUC-Hi26
<b>Zavio</b>	B5010, B5210, D3100, and F7210

## FW upgrade:

<b>Arecont</b>	AV8185 and AV8365
<b>Messo</b>	NIC950
<b>Probe</b>	PIC-H2010, PIN-H1310 and PMI-H2000

## Onvif support:

3. For ONVIF partner, NUUO only guarantee camera video connection (1st stream) with ONVIF test report.
4. Onvif Product line support: Titan(Profile S v12.06), Mini2(Profile S v12.06), Mini (Onvif v1.01) and Mainconsole(Profile S v12.06)

## Notice:

### 10. Known issue:

rrr. Yudor YUC-H626, YUC-Hi26, YUC-H7926:

In website, when bitrate mode is "CBR" and change stream mode from "Advanced mode" to "Basic mode". Quality will not synchronized to web.

sss. Santec SNC-6315:

M-JPEG on high resolution and quality may not get parameter.

ttt. VisionHitech Vision SM3Ti,

1. Sometimes can't get camera parameter normally due too camera response too slow, but there is chance to recover after reboot.

2. Audio may discontinuously under high resolution, framerate and bitrate settings.

uuu. LevelOne WCS-6020, WCS-6050

- WCS-6050 not support MJPEG 1280x1024
- Not support preset
- Camera's framerate is less than 30fps at high resolution.
- PTZ Home is stopped when the button is released at titan.
- Broken textures at high quality.
- Not support AAC codec. Users have to set AMR codec via camera web.

vvv. Everfocus EDN2210 :

Sometimes can't get camera's parameter at high resolution.

www. Beward

1. For N300/320, only camera link is received for camera intergration. Thus, NUUO only guarantee video function.
2. For N100/120, audio will be disappeared after switch settings for a few times. (FW issue)

xxx. 3SVision S4071

1. The quality setting of M-JPEG is unavailable.
2. When the server attaches two or more channels, the maximal framerate is unstable.

yyy. Zavio

1. For F7210, due to audio and PTZ malfunction, the two functions can't be verified unless new camera sample is provided. Thus, audio and PTZ function for F7210 is not guaranteed.
2. For D3100, there is no audio and the UPnP doesn't include port settings. The two are known as FW issue.

zzz. TP-LINK TL-SC3130v2 and TL-SC3130Gv2

Not support audio with AMR 7.95.

aaaa. Messoa NCC800, NCB855

1. Set parameter will take 10 sec or more to setup.
2. Get parameter may wrong after set parameter.
3. Broken textures on connected in 1~4sec at MPEG4.
4. Not support auto detection.
5. For NCB855, setup bit rate of MPEG4 will response wrong parameter.

bbbb. Messoa NIC950

1. Not support UPnP.
2. Not support auto detection.
3. Not support motion detection on MJPEG.
4. Not support DI and DO.

cccc. Probe PID-H1300

Auto detection fail. (FW issue)

## dddd. D-Link

1. DCS-7110: not support Preset and HTTP protocol
2. DCS-6915: not support Preset, Audio 40kbits mode, Talk, Motion Detection and Flip.
3. DCS-2230: Quality setting fail in MJPEG
4. DCS-6210: Flip/Mirror acts contrary
5. DCS-6513: Preset issue(1st point position will be covered by 2<sup>nd</sup> point position), Talk voice abnormal
6. DCS-5635: Not support autopan speed setting and MPEG4 format in HTTP
7. DCS-5605: Not support MPEG4 format in HTTP

## eeee. Bullwark

BLW-510MP-BS: Get parameter will fail when Mjpeg quality bigger than 60.

## ffff.Axis

P1354: Not support AAC in MJPEG. Not support AAC in H264 in Titan and Mini2 v1.6, but support in Mini2 v1.5.

### **Bug Fixed the bug thated:**

#### Mainconsole:

- Hikvision Generic:
  1. If device not support PTZ function, PTZ push-button will not be disable.
  2. Autodetect function can't find generic model.
  3. MD delay
  4. There are broken texture when use high resolution and low frame rate.
- Messoa:
  1. The default values of video parameter are different from camera web on MainConsole.

#### NVRmini 2:

- Hikvision Generic:
  - 1.If device not support PTZ function, PTZ push-button will not be disable.
  - 2.Autodetect function can't find generic model.
- CNB IDC4000T:
  - 1.the device can not connect and can not set up on camera web page after a period of time.

#### Titan NVR:

- Hikvision Generic:

- 1.If device not support PTZ function, PTZ push-button will not be disable.
  - 2.Autodetect function can't find generic model.
- CNB IDC4000T:
    - 1.the device can not connect and can not set up on camera web page after a period of time.

## Release Version v2.8.0 (2012/12/19)

### Modules:

Device Pack v 2.8.0

### Supported Systems:

Mainconsole v 3.5.0 and above

NVRmini 2 v 1.5.0 and above

Titan NVR v 1.3.0 and above

### New Camera Supported:

**ACTi** KCM5511

**Arecont** AV8185DN, AV8365DN, AV20185DN and AV20365DN

**AXIS** M3005

**Bolide** BN1009/PTZ3GIP, BN1009/PTZWDRIP, BN1009M/PTZ-18, BN2002IP, BN2002WDRIP, BN2009AVAIRIP, BN2009IRIP, BN2009WDRVAIRIP, BN2035IRIP, BN2035WDIRIP, BN5002M-A, BN5009M-A and BN5035M-A

**Bosch** NTC-265-PI and NDN-265-PIO

**Corum** CS-150-IO, CS-195-IO, CS-310-IO, CS-320-IO, CS-390-IO, CS-410-IO and CS-425-IO

**Dlink** DCS-2310L, DCS-3112, DCS-6314, DCS-6915(Mainconsole support), DCS-7413 and DCS-7513

**Eneo** GXB-1720M-IR, GXC-1605M, GXC-1606M-IR, GXC-1720M, GXD-1610M-IR, and GXD-1720M-IR

**Everfocus** EPN4220

**Hikvision** DS-2CD8253F-EI, DS-2CD8264FWD-(EIS), DS-2CD864FWD-E, DS-2DF1-572 (Mainconsole support) and Generic

**ITX** NCD-2003PR(Mainconsole support), NMX-2003P(Mainconsole support)

**LevelOne** WCS-6020(Mainconsole support), WCS-6050 (Mainconsole support)

**LG** LDW2010, LSW900, LSW901, LSW2010, LVS201, LVS301, LVS311, LVW700, LVW701, LVW900, LVW901, LW352, LW355, LW9226, LW9226I, LW9228, LW9228I

**Rover** RV19BMVP and RV19BMVIR

**Samsung** SNB-5001, SND-5011 and SND-5061

**Sony** SNC-VB600 and SNC-VB630

**Tiandy** TC-NS324S2-V2.1

**Vivotek** IP8172(Mainconsole support)

## Yudor

YUC-H696, YUC-766R-30, YUC-H796R, YWS-H01DP and YWS-H04S

## FW upgrade:

### Panasonic

DG-SW155, WV-SP135E and WV-SW155

## Notice:

Known issue:

### I. ACTi KCM5511

Pitch of G.711 audio is not correct.

Not support motion detection in M-JPEG.

### II. CORUM

Under particular operation, the quality or resolution of video parameter can't be set. It needs set quality on camera web again.

The particular operations sequence is as follows:

In Advanced Mode -> use VBR -> Apply -> use CBR -> Apply -> change to Basic Mode -> Apply

CS-425-IO and CS-195-IO: Not support 2<sup>nd</sup> stream in maximum frame rate of 1080p.

CS-230-IO: Cannot setup saturation. (IP+)

CS-390-IO: Not support UPnP.

CS-150-IO, CS-195-IO, CS-320-IO, CS-390-IO, CS-410-IO and CS-425-IO: When input under N.C status, needs trigger input more than 10 sec if you want to cancel event of input.

### III. Sony SNC-VB600,SNC-VB630

Not support Motion Detection.

Not support Audio.

Alarm Input doesn't work.

### IV. VIVOTEK IP8172

Not support CBR mode (MainConsole).

MJPEG not support audio.

Not support AAC audio.

### I. LevelOne WCS-6020, WCS-6050



Camera does not stable at bad network environment. For example, UPNP search failed, no video...etc.

Not support preset

WCS-6050 not support MJPEG 1280x1024

## II. Hikvision

DS-2CD8264FWD-(EIS): Not support PTZ

DS-2CD864FWD-E: Not support DI, G726 talk, zoom in/out

DS-2CD8253F-EI: Not support audio but the clickbox is opened(cgi issue).

## III. D-Link

DCS-6915: Not support talk, Motion Detection, DI, DO

DCS-3112: Not support Preset

## IV. Bolide

All Bolide models changing MJPEG resolution may get Fail message due to camera FW issue. (MainConsole/Mini2/Titan)

All Bolide models AutoDetect model may fail due to incorrect model name response. (IP+/Mini2/Titan)

BN2002WDRIP, BN5002M-A: AlarmIn message is unstable.

## V. Bosch NTC-265-PI:

MJPEG Quality always get 70 (Camera Firmware Issue). (MainConsole)

H264, MJPEG set Quality 0 but get 24 (Camera Firmware Issue). (MainConsole /Mini2/Titan)

MJPEG lag (Camera Firmware Issue). (MainConsole)

Audio Codec supports g711, not support L1, AAC. (MainConsole /Mini2/Titan)

## VI. Tiandy TC-NS324S2-V2.1

Audio at titan is bad.

Only support streaming

## VII. ITX NCD-2003PR:

When set Anti-Flicker Mode to 50Hz, Mainconsole would get wrong Max of FPS(30). (Firmware issue)

## VIII.LG LW9226:

Audio out sound level is too small (with high impedance).

## IX. LG LVS201:

Video image has some noise in the bottom line when video resolution at QCIF.

### **Bug Fixed the bug thated:**

Mainconsole:

- Samsung SND-3082 video will disconnect after continuous control PTZ several minutes.
- Panasonic DG-SF334 force setting bitrate value when codec is H264.

NVRmini 2:

- AMTK AM2221D, AM2231D preset name can't contain blanks.

Titan NVR:

- AMTK AM2221D, AM2231D preset name can't contain blanks.
- Sony SNC-EP580 PTZ speed is too slow.

## Release Version v2.7.2 (2012/11/28)

### Modules:

Device Pack	v 2.7.2
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### Supported Systems:

Mainconsole	v 3.5.0 above
NVRmini 2	v 1.5.0 above
Titan NVR	v 1.3.0 above

### New Camera Supported:

<b>AXIS</b>	M3005 (For Mini2 and Titan only)
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## Release Version v2.7.0 (2012/11/19)

### Modules:

Device Pack v 2.7.0

### Supported Systems:

Mainconsole v 3.5.0 above

NVRmini 2 v 1.5.0 above

Titan NVR v 1.3.0 above

### New Camera Supported:

**Airlive** OD-325HD

**AMTK** AM2030D, AM2110D, AM2120D, AM2221D, AM2231D, AM2530D, AM2570D, AM2590D, AM2630D and AM2730D

**Asoni** CAM613M, CAM614, CAM615, CAM616M, CAM619M, CAM620, CAM624M, CAM625M, CAM627M, CAM628M, CAM630, CAM632, CAM633, CAM634M, CAM637M, CAM638, CAM639(Mini2/Titan only), CAM640, CAM641(Mini2/Titan only), CAM642M, CAM647, CAM656D, SVR610, SVR611, SVR640

**AXIS** P5544

**Bosch** NDC-274-P and NDC-274-PT

**Camtron** HLC-81AD/P, HLC-83V, HLC-83V/W, HLC-84V and HLC-84V/W

**Corum** CS-270-IO

**Forenix** NPB-720, NPB-720A, NPB-720U, NPD-720K and NPD-720R

**Hikvision** DS-6601HFHI (Mainconsole only)

**Histream** HIHD\_64

**Lilin** IPD2220ES, IPG1022ESX, IPG1022ES, IPR320ESX, IPR434ESX, IPR7424ESX (Mini2/Titan support)

**Messoa** NCR-875PRO, NDR-891, NIC-990

**Samsung** SNB-7001, SNB-7002, SND-7011, SND-7061, SND-7082 and SNV-7082

**Tiandy** TC-NH9106S2-MP

**JVC** VN-H37U, VN-H57U, VN-H137, VN-H157WPU, VN-H237U, VN-H257U, VN-H257VPU, VN-V685U, VN-V686BU, VN-V686WPBU (Mini2/Titan support, Mainconsole have supported on DP v2.5)

### Notice:

11. Known issue:  
dd. Bosch NDC-274-P

- MJPEG Quality always get 70 (Camera Firmware Issue).
  - MJPEG set Quality 0 but get 24 (Camera Firmware Issue).
  - MJPEG lag (Camera Firmware Issue).
- ee. Airlive OD-325HD and AMTK AM2030D, AM2110D, AM2120D, AM2221D, AM2231D, AM2530D, AM2570D, AM2590D, AM2630D and AM2730D Always can use http port 80 to connect after changing http port by FW issue.
- ff. Airlive OD-325HD and AMTK AM2590D, AM2030D, AM2570D, AM2530D, AM2630D, AM2730D Initail output status will not synchronize to real output voltage by HW issue.
- gg. AMTK AM2221D, AM2231D preset name can't contain blanks.
- hh. Histream HIHD\_64 camera response very slow, when change video parameter, there is high opportunity to disconnect. Just wait for a while, or reboot camera, and then be able to reconnect.
- ii. Hikvision DS-6601HFHI
- UPnP search can't find the camera.
  - Can't change port on camera web site.
  - Talk sound is not fluent
- jj. Messoa NDR891 and NCR875PRO
- Set parameter will take 10 sec or more to setup(Camera Firmware Issue).
  - Get parameter may wrong after set parameter(Camera Firmware Issue).
  - Broken textures on connected in 1~4sec at MPEG4(Camera Firmware Issue).
  - Not support auto detection.
  - Setup bit rate of MPEG4 will response wrong parameter on Mini2/Titan(Camera Firmware Issue).
  - Not support talk on MainConsole.
  - The default values of video parameter are different from camera web on MainConsole.
- kk. Messoa NIC990
- Can't set frame rate(Camera Firmware Issue).
  - Only support H.264.
  - Not support dual stream on 1080P(Camera Firmware Issue).
- ll. Camtron HLC-81AD/P doesn't support autodetect & search
- mm. LILIN IPD2220ES, IPG1022ESX, IPG1022ES, IPR320ESX, IPR434ESX, IPR7424ESX Video parameter does not synchronize to ONVIF option.
- nn. LILIN IPR434ESX does not support dualstream at 2048x1536
- oo. Tiandy TC-NH9106S2-MP
1. Not support ONVIF event (MD, I/O).
  2. Not support minor stream.
  3. Not support dual stream.

## Bug Fixed the bug thated:

### Mainconsole:

- Fine SP-HP2020Q-IP patrol cause IP+ dump.
- Levelone FCS-3091 can't use talk function.

### NVRmini 2:

- CNB IDP4000VD open dualstream failed.
- Vivotek SD8XXX series preset issue.
- Panasonic WV-SW395, WV-SW396 preset issue.

### Titan NVR:

- CNB IDP4000VD open dualstream failed.
- Vivotek SD8XXX series preset issue.
- Panasonic WV-SW395, WV-SW396 preset issue.

## Release Version v2.6.0 (2012/10/19)

### Modules:

Device Pack v 2.6.0

### Supported Systems:

Mainconsole v 3.5.0 above

NVRmini 2 v 1.5.0 above

Titan NVR v 1.3.0 above

### New Camera Supported:

<b>Axis</b>	M1014 , M1143-L, M3004, M7014, P7224 and Q7406 DCS-2130 (Titan/Mini2 support and Mainconsole already support on v2.5) and DCS-3716
<b>D-Link</b>	
<b>Everfocus</b>	EDN3160, EDN3260, EDN3340, EHN3160, EHN3260, EHN3340 and EPN4122
<b>Forenix</b>	ACD-3VM501 and NPB-720BM
<b>Jetstor</b>	JS-C1100, JS-C2100, JS-WGP-100-CB, JS-B0100, JS-B0100-W, JS-B0131, JS-BB1100-R30, JS-B1100, JB-B1204-R25, JS-D0100, JS-D1100, JS-D1130, JS-D1204, JS-ISD0200x18 and JS-OSD0200x20
<b>Levelone</b>	FCS-3071-V2
<b>Samsung</b>	SNP-6200, SNP-6200H, SNP-6200HP, SNP-6200P
<b>Shany</b>	SNC-21XX ( SNC-WD2112MDN, SNC-WD2122DN, SNC-WDL2132DN, SNC-WDL2142DN) SNC-22XX ( SNC-2212MDN, SNC-2222DN, SNC-L2232DN) SNC-23XX (SNC-WD2312MDN, SNC-WD2322DN, SNC-WDL2132DN, SNC-WDL2332DN)
<b>Sunell</b>	IPS54/70DN/Z18, IPS54/70DN/ZR18, IPS54/70DR/Z18, IPS54/70DR/ZR18, SN-IPC54/11FDN, SN-IPC54/11DN, SN-IPC54/11EDN, SN-IPV54/11DN, SN-IPV54/11DR, SN-IPD54/11VDN, SN-IPD54/11VDR, SN-IPV54/11UDN, SN-IPV54/11UDR, SN-IPR54/11DN, SN-IPR54/11ANDN, SN-IPV54/11ZDR, SN-IPR54/11ALDN, SN-IPR54/11AKDN, SN-IPD54/12VDN, SN-IPC54/12DN, SN-IPC54/12EDN, SN-IPC54/12FDN, SN-IPV54/12DN, SN-IPV54/12DR, SN-IPD54/12VDR, SN-IPV54/12UDN, SN-IPV54/12UDR, SN-IPR54/12DN, SN-IPR54/12ANDN, SN-IPV54/12ZDR, SN-IPR54/12ALDN, SN-IPR54/12AKDN and VSR54/01
<b>Techson</b>	TCIP-220MDN, TCIP-230WDRMDN, TCIP-213WDRMDN, TCIP-D213WDRDN TCIP-D220DN, TCIP-D230WDRDN, TCIP-LD213WDRMDN, TCIP-LD220MDN,

TCIP-LD230WDRMDN and TCIP-LPro213WDRMDN (Mini2 and Titan support, Mainconsole already support on DP v2.5)

## Zavio

D5113, D7111, F1100 and F1105

## Notice:

### 12. Known issue:

- pp. Sunell SN-IPD54/12VDN, VSR54/01 autodetect fail due to camera FW issue. IPS54/70DN/ZR18 VSR54/01 changing MJPEG resolution may get Fail message due to camera FW issue. Can't support G711 A-law(Onvif issue)
- qq. Axis P7224 can't use second audio in (All). Support G.711 only (mini2/Titan).
- rr. Forenix NPB-720BM doesn't support On-edge motion under TCP or UDP protocol.
- ss. Digital WatchDog DWC-MPA20M does not support On-edge motion detection.
- tt. Digital WatchDog DWC-MPA20M, if switching between profiles constantly(about 5~10 times), sometimes the camera is just disconnected and no longer connected again until rebooting it
- uu. 2.5 and 12.5 framerate can't be show at EPN4122.

## Bug Fixed the bug thated:

### Mainconsole:

- Can't connect over 3 Pelco IP110 devices.
- Icantek icanview240 can't use PTZ.
- Probe connection failed after several minute.
- EverFocus ONVIF camera responses LAN address in NAT environment.

### NVRmini 2:

- Panasonic WV-SW395 PTZ speed moving angle too much.
- Probe connection failed after several minute.
- Vivotek some PTZ models can't control PTZ when PTZ speed is 0 in the camera web interface.
- EverFocus ONVIF camera responses LAN address in NAT environment.

### Titan NVR:

- Panasonic WV-SW395 PTZ speed moving angle too much.
- Probe connection failed after several minute.
- Vivotek some PTZ models can't control PTZ when PTZ speed is 0 in the camera web interface.
- EverFocus ONVIF camera responses LAN address in NAT environment.





## Release Version v2.5.0 (2012/09/18)

### Modules:

Device Pack v 2.5.0

### Supported Systems:

Mainconsole v 3.5.0 above

NVRmini 2 v 1.5.0 above

Titan NVR v 1.3.0 above

### New Camera Supported:

**ACTi** KCM5611 and KCM7911

**Axis** Q1604 and Axis (for IP camera and video servers' Video only)

**Dahua** SD65XX-HN and SD69XX-HN

**D-Link** DCS-2130 (Mainconsole only)

**Ernitec** Mercury SX 302, Mercury SX 302IR, Mercury SX 302M, Orion SX 802IH, Orion SX 802OPH, SX 605, Vega SX 102 and Vega SX 102IH

**Guardeon** GDN-V1300D, GDN-DV1300IR and GDN-D1300IR

**Honeywell** HCD5MIH, HD3MDIH and HD4MDIH

**JVC** VN-H257U, VN-H257VPU, VN-H37U, VN-V685U, VN-V686BU and VN-V686WPBU(Mainconsole only)

**LG** LNB3100, LNB5100, LND3100, LND5100, LNP2800, LNP2800I, LNP3700, LNP3700T, LNV5100, LNV5110, LW130W, LW332, LW335, LW342, LW345, LW6324, LW6354, LW6424, LW6454 and LW9422

**Vivotek** FE8171V (Mainconsole only and Titan/Mini2 already support on v1.13) and FE8172V

### Notice:

#### 13. Known issue:

- a. ACTi KCM5611 does not support RS-485 (not support Pan/Tilt).
- b. Dahua SD65XX-HN, SD69XX-HN does not support motion detection at MJPEG.  
MJPEG bitrate can't set over 8192 kbps.
- c. Axis Generic support video only.
- d. Axis Q1604 does not support AAC at MJPEG and not support H264 CBR mode.
- e. Guardeon does not support audio in with 16KHz sampling rate.
- f. LG series can't support dual-stream when video parameter is H264, 1920x1080(or above), over 20fps.

- g. LG Speed Dome models (LW9422, LNP3700T) PTZ will stop automatically when press bottom over 10 sec. Focus near/far needs to setup the focus mode in camera's OSD. Adjust zoom speed is useless.
- i. Vivotek FE8172V, not support CBR mode. Not support audio at MJPEG. Not support AAC audio. When resolution is 1360x786, video stream would have a white line at the left-bottom of the frame. If set to Full HD mode, the low profile video stream would have a color line at the bottom of frame.

## **Bug Fixed the bug thated:**

### Mainconsole:

- Fixed the bug that Santec SNC-8322 PTZ "down-left "
- Fixed the bug that Dynacolor NV053, NV223 autofocus
- Probe PIC-H2010 with wrong MAX framerate support.
- Zavio B7210, F7210 with wrong resolution support.

### NVRmini 2:

- Panasonic WV-SC385 can't get preset point.
- Sunell SN-IPS54/60DN/Z18/WI Motion Detection failed after 60sec.

### Titan NVR:

- Panasonic WV-SC385 can't get preset point.
- Sunell SN-IPS54/60DN/Z18/WI Motion Detection failed after 60sec.

## Release Version v2.4.0 (2012/08/20)

### Modules:

Device Pack v 2.4.0

### Supported Systems:

Mainconsole v 3.5.0 above

NVRmini 2 v 1.5.0 above

Titan NVR v 1.3.0 above

### New Camera Supported:

**ACTi** TCM1111, TCM3111, TCM4511, TCM5111 and TCM6630

**Alphatech** AT-IMF5736 and AT-IMV5756

**Brickcom** 30xN

**Grundig** GCI-K1526V and GCI-K1812W

**Probe** PIC-2010T and PIN-H1310

**Sunell** SN-IPS54/60DN/Z18/WI

**Techson** TCIP-213WDRMDN, TCIP-220MDN, TCIP-230WDRMDN, TCIP-D213WDRDN, TCIP-D220DN, TCIP-D230WDRDN, TCIP-LD213WDRMDN, TCIP-LD220MDN, TCIP-LD230WDRMDN and TCIP-LPro213WDRMDN (Mainconsole only)

**Vidosec** ICS-20W, ID-20, IRD-20 and IRW-20W

**Vivotek** BB5116, BB5315, BD5115 and FD8131

**3Svision** N3071, N6072, N6073, N6074, N6075, N6076, N6077 and N9071

### Notice:

#### 14. Known issue:

- a. ACTi TCM6630, DI/DO useless, FW issue.
- b. AlphaTech models, 2nd profile's framerate will be limited to 15fps when 1st profile set resolution to 1600x1200. Framerate only support 3~25fps.
- c. Brickcom 30xN, Cover FB-300Np, WFB-300Np, MD-300Np. MD-300Np is no support DI/DO and one way audio only.
- d. Grundig models, camera become slow response (or not response) when set resolution, compression and framerate near the maximum value, audio will not smooth at the same time. Suggest modify GOV length to small value when video framerate lower than 5.
- e. Probe series, will access failed when add more than 1 channel to the same camera.
- f. Sunell SN-IPS54/60DN/Z18/WI, dual-stream will connect failed when camera is too busy.

## 15. Bug Fixed the bug thated:

### Mainconsole:

- Brickcom VS-04A, can't be selected in the camera support list.

### NVRmini 2:

- ACTi CAM6610, adjust PTZ speed to adequate speed.
- Grundig C3075, increase the PTZ control latency.
- Sunnell camera can't disconnect automatically when press disconnect button.

### Titan NVR:

- ACTi CAM6610, adjust PTZ speed to adequate speed.
- Grundig C3075, increase the PTZ control latency.
- Sunnell camera can't disconnect automatically when press disconnect button.

## Release Version v2.3.0 (2012/07/18)

### Modules:

Device Pack v 2.3.0

### Supported Systems:

Mainconsole v 3.5.0 above

NVRmini 2 v 1.5.0 above

Titan NVR v 1.3.0 above

### New Camera Supported:

**Alphatech** AT-IMF5739 and AT-IMF5750

**Basler** BIP2-D1920c-DN

**Dynacolor** na063

**Mobotix** M24M-Sec

**Santec** SNC-3322 and SNC-8322I/HO

**Telview** IPB612P-ICR, IPB630P-ICR, IPD612-VP-VF-IR, IPD630-VP-VF-IR, IPE600, IPW612, IPW630, IPW630P, IPZ611, VIS611, VIS614 and VIT621

**Vivotek** FD8335H, FD8372 and IP8361

### Notice:

#### 16. Known issue:

##### a. Alphatech AT-IMF5739, AT-IMF5750

2nd profile's framerate will be limited to 15fps when 1st profile set resolution to 1600x1200.

Framerate only support 3~25fps.

##### b. Basler BIP2-D1920c-DN

Not support Audio & Talk

##### c. Dynacolor na063

Video parameter can't synchronize with camera web interface, need to refresh the browser.

Talk quality is not clear.

Camera efficiency will done when set high resolution & quality stream.

##### d. Mobotix M24-Sec

Audio only support on MxPEG.

Motion event works abnormal until first time trigger.

Resolution of dual-stream can't bigger then main-stream.

##### e. Vivotek FD8372

Mpeg4 support first 2 maximum resolutions are 1920x1920 & 1920x1536.

## 17. Bug Fixed the bug thated:

### Mainconsole:

- Etrovision EV8180U black video when set resolution to 1920x1080.

### NVRmini 2:

- CNB IDC4050IR, IDC4050F dualstream doesn't work.

### Titan NVR:

- CNB IDC4050IR, IDC4050F dualstream doesn't work.

## Release Version v2.2.1 (2012/07/05)

### Modules:

Device Pack	v 2.2.1
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### Supported Systems:

Mainconsole	v 3.5.0 above
NVRmini 2	v 1.5.0 above
Titan NVR	v 1.3.0 above

### Notice:

1. Bug Fixed the bug thated:

For Eneo GCD1710M-IR, please remove DP v2.2.0 first then install DP v2.2.1 and reset

Mainconsole:

- a. Eneo camera model correct to GXD-1710M-IR
- b. Axis P7210 can not view the correct video channels with Codec H264.

NVRmini 2:

- a. Eneo camera model correct to GXD-1710M-IR

Titan NVR:

- a. Eneo camera model correct to GXD-1710M-IR



## Release Version v2.2.0 (2012/06/19)

### Modules:

Device Pack v 2.2.0

### Supported Systems:

Mainconsole v 3.5.0 above

NVRmini 2 v 1.5.0 above

Titan NVR v 1.3.0 above

### New Camera Supported:

**ACTi** KCM-3311 and KCM-7311

**Arecont** AV2116 and AV3116

**Axis** M7014, P3354, Q1604, Q7414 (NVRmini 2, Titan NVR only)  
P3364

**Brickcom** OB-100Ap, VS01A, PZ-040D and PZ040E

**Eneo** GXB-1710M-IR, GXC-1710M and GCD-1710M-IR

**Hikvision** DS-2CD7153-E

**Mobotix** D-14D Sec

**Samsung** SNB-1001, SND-1011, SND-1080, SNO-1080R, SNV-1080 and SNV-1080R

**Vivotek** FD8372, FD8136, IP8133, PT8133, SD8362

### Notice:

1. Known issue:

a. Hikvision DS-2CD7513-E

this camera can not set framerate 15~22 when resolution is 1600x1200,1600x912.  
sometimes camera can't set resolution 1600\*1200 、1600\*912 、1280\*960.

2. Bug Fixed the bug thated:

Mainconsole:

b. ACTi KCM-5211 PTZ function will be useless after 1 week. (Need upgrade FW V5.05.07 & ISP V1.02.02)

c. Samsung SND-3080 can not get the parameter of the video stream.

NVRmini 2:

None

Titan NVR:

- a. Axis Q7406 can not support PTZ control.
- b. Axis P7210 can not view the correct video channels with Codec H264.
- c. UDP IPE3500M disconnect automatically after 24hours.
- d. Vivotek SD83x2, SD83x3 can not adjust the PTZ speed.
- e. Zavio B7201 video broken in LiveView.

## Release Version v2.1.0 (2012/05/21)

### Modules:

Device Pack v 2.1.0

### Supported Systems:

Mainconsole v 3.5.0 above

NVRmini 2 v 1.5.0 above

Titan NVR v 1.3.0 above

### New Camera Supported:

<b>Axis</b>	P3367, P7210, P7214, P8513, P8514, Q1602, Q1602-E, Q1922 and Q1922
<b>Brickcom</b>	130N series and 50xA series
<b>CNB</b>	IDC4000T
<b>COP</b>	15-WS01D-E
<b>Guardliner</b>	SPmicro-412
<b>Hikvision</b>	DS-2CD853F-E
<b>Panasonic</b>	WV-SC386, WV-SP508, WV-SP509, WV-ST162, WV-ST165, WV-SW172, WV-SW174W, WV-SW175, WV-SW314, WV-SW316/L, WV-SW558 and WV-SW559
<b>Samsung</b>	SNP-3302/H
<b>Santec</b>	SNC-3342 and SNC-6332
<b>Vision Hi-Tech</b>	I series, Mi series, M3i series and NVS102
<b>Vivotek</b>	FD8134-SS, IP7160-SS, IP7161-SS, IP8151-SS, IP8161-SS, IP8162P-SS, IP8332-SS, SD8121-SS, SD8362E, SD8362-SS, SD8323E-SS
<b>3SVision</b>	N3072, N5071 and N8072

### Notice:

3. Known issue:
  - a. Brickcom 130N series need waiting 15s to finish adjust the zoom/focus.
  - b. Brickcom 50xA series need waiting a period of time to reconnect stream success when switch the video resolution higher than 1920x1080.
  - c. Hikvision DS-2CD853F-E can't set framerate 15~22 in Max resolution.
  
4. Bug Fixed the bug thated:  
Mainconsole:

Fixed the bug that Sony SNT-V704 can't connect failed.

Fixed the bug that UDP camera image gray out or break randomly when config different resolutions.

NVRmini 2:

Fixed the bug that Axis M7001 can't use dualstream.

Titan NVR:

None

## Release Version v2.0.0 (2012/04/18)

### Modules:

Device Pack v 2.0.0

### Supported Systems:

Mainconsole v 3.5.0 above  
NVRmini 2 v 1.5.0 above  
Titan NVR v 1.3.0 above

### New Camera Supported:

**ACTi** KCM-3211, KCM-3911  
**Arecont** AV20185CO, AV20365CO, D4F series  
**Axis** M3113-R, M3113-VE, Q6032  
**Bullwark** BLW-230MP-BS, BLW-230MP-DS, BLW-IN220X-S, BLW-IR230MP-DSM, BLW-IR230MP-SM and BLW-OUT220X-S  
**Centrix** B13H, C10, C10-W, D13HD, W13H  
**Dynacolor** NH720-20N1, NH820-20N1, nv103, nv223, nv053 and nv063  
**Forenix** B0202  
**GE** TVC-MP2B-S  
**Hikvision** DS-2CD754F-EI, DS-2CD8254F-EIS, DS-2CD752MF-E, DS-2CD754F-E, DS-2CD854F-E and DS-2CD883F-E  
**IQinvision** IQeye863N, IQeye865N, IQM30N, IQM31N, IQM32N and IQD32S  
**Levelone** FCS-0071, FCS-1122, FCS-5061 and WCS-0050(Mainconsole only)  
**Panasonic** WV-SC384, WV-SC385, WV-SF332, WV-SF335E, WV-SW355(above add I/O), WV-SW396  
**Rover** RV1WAD, RV01AD, RV01AT, RV04AD, RV1WAG, RV79AD, RV7RAD, RV7RAG, RV81AD, RV81AG, RV84AD, RV84AM, RV84AV and RV87ZA  
**Samsung** SNB-3002, SNO-7080RP, SNP-3371, SNP-3371TH, SPE-400, SND-3082 (F) and SNV-3082  
**Vivotek** FD8135H, FD8335H, IP8335H, PT8133 and PT8133W  
**Zavio** B7210, D7110, F1100(Mainconsole only), F1105(Mainconsole only), F3101, F3106, F3201, F3206 and F531E

### Notice:

**5. From DP v2.0, Mainconsole/NVRmini 2 (from v1.5)/Titan NVR (from v1.3) share same device pack.**

6. Known issue:

- a. ACTi : KCM3211's PTZ only support Zoom and Focus.
- b. Arecont: AV20185 include AV20185DN, AV20185CO, AV20365 include AV20365DN, AV20365CO
- c. Bullwark: BLW-IR230MP-SM 1920x1080 MJPEG Bit rate too high will affect camera parameter can not synchronizeto camera information
- d. Forenix: not support search and auto detected (camera FW issue)
- e. Hikvision: 1.DS-2CD8254F-EIS \ DS-2CD854F-E \ DS-2CD883F-E can't set framerate 15~22 in Max resolution, DS-2CD8254F-EIS \ DS-2CD854F-E \ DS-2CD883F-E image broken when resolution over 1600x1200
- f. IQinvision: IQM3xN series not support audio in M-JPEG
- g. Panasonic: WV-SC385 and WV-396 support continuous PTZ
- h. Samsung: SNP-3301, SNP-3370: H264 can't support QCIF resolution

7. Bug Fixed the bug thated:

Mainconsole:

- a. Fixed the bug that Vivotek IP7361 motion detection works failed when set motion area more than 2.
- b. Santec: SNC-4302  
1080P and 800x600 don't support flip and rotate, Model I/O revise and Quality setting fail issue

NVRmini 2:

- a. Fixed the bug that AV8185DN can't get correct video framerate, quality & compression after setting video parameter when adding the same model with a server over two times.

Titan NVR:

- a. Fixed the bug that Panasonic WV-SC385. The speed of PTZ is very slow in the Titan NVR.

## Release Version v1.19.0 (2012/02/29)

### Modules:

Device Pack v 1.19.0

### Supported Systems:

MainConsole v 3.3.0 above

### New Camera Supported:

<b>Dynacolor:</b>	V2 series
<b>iCANTEK:</b>	iCanView322MP, iCanView340MP
<b>Messoa:</b>	NIC990PRO-HP
<b>Micronet:</b>	SP5523W, SP5563HTM, SP5581HDC, SP5582HTM, SP-5584HTM, SP5591HTM SP5923,
<b>Pelco:</b>	IP110, SpectraIV-IP
<b>Santec:</b>	SNC-3302, SNC-4302, SNC-5312IR, SNC-6302, SNC-6312IRH, SVS-3001
<b>Truen:</b>	TCAM-5x10, TCS-2000

### Notice:

- c. Firmware Upgrade
  - iCANTEK: iCanView332MP, iCanView362MP
  - Truen: TCAM-570
- d. Known issue:
  - i. Messoa: NIC990PRO-HP
    - Only support video and PTZ. Other parameters setting, audio and DI/DO are not available due to firmware issue.
  - j. Pelco : IP110, SpectraIV-IP
    - Only support MPEG4 image, not support parameter setting. SpectraIV-IP only support 704x240. IP110 only support 704x480.
  - k. Micronet: SP5923
    - 1080P and 800x600 don't support flip and rotate.
  - l. Micronet: SP5581HDC
    - Not support talk.
  - m. Santec: SNC-4302
    - 1080P and 800x600 don't support flip and rotate.
  - n. Truen: TCAM-570

MJPEG not support audio.

- o. Truen: TCAM-2000
  - Not support below resolutions:
    - Composite NTSC 352x240, 720x240
    - HDMI 1080i60 352x240, 720x240, 640x360
  - Echo would occur after stop talk function
  
- e. Bug Fixed the bug thated:
  - a. ACTi: KCM-5211 Auto-Focus behavior did not synchronize with camera web.
  - b. Vivotek: VS8401 would connect with incorrect channels.
  - c. CNB: ISS2965x can't Zoom In/Out by joystick.
  - d. Corumcctv: MainConsole would hang and stop after disconnecting the video stream.



## Release Version v1.18.0 (2012/01/03)

### Modules:

Device Pack v 1.18.0

### Supported Systems:

MainConsole v 3.3.0 above

### New Camera Supported:

**Hikvision:** DS-2CD783F-E, DS-2CD783F-EI, DS-2DF1-5702, DS-2DF1-570A, DS-2DF1-5732, DS-2DF1-573A, DS-2DF1-57A

**Lilin:** IPD2220ES, IPG1022ES, IPR320ESX, IPR722S, IPR7424/8ESX

**Sony:** SNC-EP521, SNC-EP550, SNC-EP580, SNC-ER550

**Vision Hi-Tech:** VISION i series, VISION M3i series, VISION NVS102

**Vivotek:** IP8335H

### Notice:

- f. Bug Fixed the bug thated
- p. PELCO: D5118 cannot operate PTZ feature by joystick.
- q. PELCO's cameras: The video format does not synchronize with web's setting.
- r. Fine: TCP-690 cannot be connected.
- s. AXIS: P5534-E cannot set PTZ preset positions.
- t. iCANTEK: iCanView362MP, iCanView332MP :  
The audio stream would cause IP+ crash.
- g. Known issue:
  - Lilin: IPG1022ES, IPD2022ES and IPR7424/8ESX  
The audio inputs only support HTTP protocol.
  - Hikvision: DS-2DF1-57xx series  
The H.264 stream displays not smoothly.

## Release Version v1.17.0 (2011/12/01)

### Modules:

Device Pack v 1.17.0

### Supported Systems:

MainConsole v 3.3.0 above

### New Camera Supported:

<b>ACTi:</b>	KCM-5211E, KCM-5311E
<b>AMTK:</b>	AM2110D, AM2231D, AM2590D
<b>Etrovision:</b>	EV8281U, EV8285Q, EV8286Q
<b>Hikvision:</b>	DS-2CD753F-E, DS-2CD753F-EI, DS-2CD754F-E, DS-2CD754F-EI, DS-2CD754FWD-E, DS-2CD754FWD-EI, DS-2DF1-572
<b>Panasonic:</b>	WV-SF132, WV-SF135, WV-SW152/M, WV-SW155/M
<b>UDP:</b>	IPE1100M, IPE3100, IPE3500, IPE4100, IPE5500, IPE6500, IPE7500
<b>Vision Hi-Tech:</b>	Vision Mi series
<b>Vivotek:</b>	MD7560X
<b>Zavio:</b>	F3201, F7210

### Notice:

- h. Bug Fixed the bug thated
- u. Mainconsole breakdown when closing and restarting Mainconsole after Onvif models operate  
**Start patrol.**
- v. SAE-E588HDE18C can't control **Zoom In/Out** by joystick.
- w. PELCO-D5118 doesn't store the relative parameter of ptz speed after change it and restart Mainconsole.
- i. Known issue:
  - Hikvision DS-2CD753-E, DS-2CD753-EI, DS-2CD754-E, DS-2CD754-EI, DS-2CD754FWD-E, DS-2CD754FWD-EI do not support PTZ preset using RS-485.
- j. Firmware Upgrade:
  - Arecont: AV3135
  - Samsung: SNB-5000, SND-5080/F, SNP-5200H, SNV-5010, SNZ-5200
  - UDP: NVC1000

## Release Version v1.16.0 (2011/11/04)

### Modules:

Device Pack v 1.16.0

### Supported Systems:

MainConsole v 3.3.0 above

### New Camera Supported:

<b>Brickcom:</b>	MD-100AP
<b>CNB:</b>	IDC4050F, IDC4050IR, IDC4050VF, IDC4050VR, IGC2050F, ISMC1063x, IS1765x, ISS2965x, ISSM2063x, IVC5055VF, IVC5055VR, IXC2050IR,
<b>Dahua:</b>	HDB3300N, HDB3300P, HDBW3300N, HDBW3300P, HF3110N, HF3110P, HF3211P, HF3300N, HF3300N-W, HF3300P, HF3300P-W
<b>Etrovision:</b>	EV3150A, EV3151, EV3151A, EV6150A-BI, EV6150A-CI, EV6151A, EV6153A, EV6156A, EV6250A-EI/EO, EV6251A-FI/FO, EV6252A-GI/GO, EV6252A-GI/GO, EV6353A-DO, EV6353A-EO, EV6353A-FO, EV6355A/AP-BO, EV6355A/AP-CO, EV6551A/AP-BI, EV6551A/AP-CI, EV6551A/AP-DI, EV6552A/AP, EV6552R/RP, EV6580A/AP-B/C, EV6581A/AP, EV6750, EV8150A, EV8180A, EV8180A-D, EV8180F, EV8180Q, EV8180Q-D, EV8180U, EV8180U-D, EV8280U, EV8285U, EV8383F, EV8580A-B, EV8580A-C, EV8580A-DB, EV8580A-DC, EV8580F, EV8580Q-C, EV8580Q-DB, EV8580Q-DC, EV8580U-B, EV8580U-C, EV8580U-DB, EV8580U-DC, EV8580U-DM, EV8580U-M, EV8581A-C, EV8581A-DB, EV8581A-DC, EV8581Q-C, EV8581Q-DB, EV8581Q-DC, EV8581U-B, EV8581U-C, EV8581U-DB, EV8581U-DC, EV8582A-D, EV8780A, EV8780U, EV8781A-C, EV8781A-DC, EV8781F, EV8781Q-C, EV8781Q-DC, EV8781U-C, EV8781U-DC, EV8781U-DM, EV8781U-M, EV8782A, EV8782A-DB, EV8782Q, EV8782Q-DB, EV8782U, EV8782U-DB
<b>Shany:</b>	SNC-10XX, SNC-20XX, SNC-81XX, SNC-91XX, SNC-D1XX
<b>USAG:</b>	US-AVC4-2-600NR-I2
<b>Vivotek:</b>	IP8133W, IP8331, MD8562
<b>Samsung:</b>	SNV-7080, SNV-7080R

### Notice:

1. Bug Fixed the bug thated:
  - AXIS P1346: Support all of AAC audio codec setting.

- Arecont AV2125: Fixed the bug that the image would turn to green when using UDP connection
  - Shany: Fixed the bug that 1080P resolution name.
  - Zavio D611E: Fixed the bug that connection issue
2. Known issue:
- CNB: 2M pixel models do not support UDP connection.
  - Dahua: All models only support Pan & Tilt feature using RS-485 to control the external device.
  - Etrovision: xx8x/xx5x series do not support talk function, 8150A and related models do not support VGA resolution.
  - USAG: Does not support PTZ feature using RS-485.
  - Samsung: 3120x, 3430H, 5xxx and 7xxx series only support TCP connection.
3. Firmware Upgrade:
- Samsung: SND-7080, SNO-5080R, SNP-3120, SNP-3120V, SNP-3430H, SNV-3120, SNV-5080R

## Release Version v1.15.0 (2011/10/03)

### Modules:

Device Pack v 1.15.0

### Supported Systems:

MainConsole v 3.3.0 & v 3.3.2 & v 3.3.12 & v 3.4 & 3.4.1 & 3.5.0 & 3.5.10 & v 3.5.18

### New Camera Supported:

**Arecont:** AV20185DN, AV20365DN

**Probe:** PIC-500, PIC-501, PIC-H1310T, PIC-H2010T, PID-500, PID-501, PID-H1000, PID-H2010T, PIK-H2010T, PIN-H1310T, PIN-H2010T, PIP-H1000, PIS-400, PK-H1310T, PMI-400, PMI-403, PMI-410, PMI-H2000, PTI-400, PTI-401, PTI-402, PTI-403, PTI-500, PTI-501, PTI-502, PTI-503, PTI-H1302, PTI-H2100

**Shany:** SNC-21X0, SNC-21XX, SNC-22XX, SNC-23XX, SNC-HD2XX, SNC-HD81X2, SNC-HD91X2, SNC-HD91XX, SNC-RX01N

**Vivotek:** SD83x1E, SD83x2E, SD83x3E, VS8401

**Zavio:** F3106, F7110

### Notice:

4. New feature:

- Onvif 1.02 PTZ feature is supported.

5. Bug Fixed the bug thated:

- LevelOne FCS-5041: login in with wrong password will cause system crash.

6. Known issue:

7. Probe series don't support IO feature/audio in.

8. Shany series will show B/W image when set camera parameter very low quality in MJPEG codec.

## Release Version v1.14.0 (2011/09/02)

### Modules:

Device Pack v 1.14.0

### Supported Systems:

MainConsole v 3.3.0 & v 3.3.2 & v 3.3.12 & v 3.4 & 3.4.1 & 3.5.0

### New Camera Supported:

<b>ACTi:</b>	KCM5211, KCM5311, KCM7211
<b>Arecont:</b>	AV1115, AV1125, AV2115, AV2125, AV3115, AV3125, AV5115, AV5125, AV10115
<b>AXIS:</b>	M3114-VE, Q6035, Q6035-E
<b>CORUM:</b>	CS-190-IO, CS-190-IP, CS-190-IW, CS-265-IO, CS-265-IP, CS-265-IW, CS-285-IP, CS-325-IO, CS-325-IP, CS-385-IO, CS-385-IP, CS-390-IO, CS-390-IP, CS-410-IP, CS-410-IW, CS-415-IP, CS-415-IW
<b>Forenix:</b>	ACDV-3VM501, AEP-Q2018H-IP, AEP-Q2018HW-IP, AEP-Q2026H-IP, AEP-Q2026HW-IP, AEP-Q2036H-IP, AEP-Q2036HW-IP, ASP-PTIR737-IP, ASP-PTIR737-LA-IP, ATCP-IRH5030C, ATCP-IRH5040C, ATCP-MH802, ATCP-MH802DN, ATCP-MH802DN/WI, ATCP-MH802WI, ATCP-VM501, B0100, B1100, C1100, C1100-W, D0100, D1100, D2100
<b>Messo:</b>	NIC910HPRO, NIC930HPRO, NIC950HPRO
<b>SONY:</b>	SNC-EP520, SNC-ER520, SNC-ER521, SNC-ER580
<b>UDP:</b>	IPE3500M, NVC4000, NVC4000-R12, NVC4000-R40
<b>Vivotek:</b>	IP8352, PZ81x1, PZ81x1W

### Notice:

#### 9. New feature:

- Onvif 1.02 support is officially released on Device Pack 1.14.0 but non-support PTZ feature.
- ACTi  
TCD2500 supports PTZ feature.
- Grandstream  
GXV series supports talk and PTZ features

#### 10. Bug Fixed the bug thated:

- PANASONIC WV-NM100 has probabilities cause system crash.
- ACTi ACM1431 Audio disabled issue.



## Release Version v1.13.0 (2011/08/02)

### Modules:

Device Pack v 1.13.0

### Supported Systems:

MainConsole v 3.3.0 & v 3.3.2 & v 3.3.12 & v 3.4 & 3.4.1 & 3.5.0

### New Camera Supported:

<b>ACTi:</b>	KCM7111
<b>AXIS:</b>	M5013, M5014, P5512, P5512-E, P5522, P5522-E
<b>Brickcom:</b>	VS-04A
<b>Everfocus:</b>	EQN2200, EQN2201
<b>Grandstream:</b>	GXV-3501, GXV-3504, GXV-3601, GXV-3601HD, GXV-3601LL, GXV-3611HD, GXV-3611LL, GXV-3615, GXV-3651, GXV-3662HD
<b>Panasonic:</b>	WV-SW352, WV-SW355
<b>Pelco:</b>	D-5118
<b>Samsung:</b>	SNP-3301, SNB-7000
<b>Vivotek:</b>	FE8171V

### Notice:

#### 11. New feature:

- **AXIS**  
P1346, P5534 support AAC codec
- **Vivotek**  
VS8102 supports continuous PTZ

#### 12. Bug Fixed the bug thated:

- **Truen**  
Adjust TCAM-570 PTZ moving distance synchronize with web client.
- **SAE**  
DR-E588-HD18 can't control PTZ by joystick.
- **AXIS**  
Supported Q7401 to 64 preset point.
- **Fine**  
MainConsole will hang out when single TCP-VM501 setup four connections at the same time.



## Release Version v1.12.0 (2011/07/01)

### Modules:

Device Pack v 1.12.0

### Supported Systems:

MainConsole v 3.3.0 & v 3.3.2 & v 3.3.12 & v 3.4 & 3.4.1 & 3.5.0

### New Camera Supported:

**Everfocus:** EAN3200, EHN3200, EDN3240, EZN3240

**Samsung:** SNB-1000, SND-7080, SNO-5080R, SNP-3120V, SNP-3370, SNP-3430H, SNP-5200, SNP-5200H, SNV-5010, SNV-5080R, SNZ-5200

**VIVOTEK:** FD8162, FD8361L, FD8362, FD8362E, SD8362E

### Notice:

13. Bug Fixed the bug thated:

- Fixed the bug that Sony preset name length issue.
- Fixed the bug that Panasonic WV-SP105 auto detect failure.

## Release Version v1.11.0 (2011/05/31)

### Modules:

Device Pack v 1.11.0

### Supported Systems:

MainConsole v 3.3.0 & v 3.3.2 & v 3.3.12 & v 3.4 & 3.4.1 & 3.5.0

### New Camera Supported:

**ACTi:** KCM5111, TCM4001  
**AXIS:** P3346, P3346-V, P3346-VE  
**CTCunion:** DVS-8501E, DVS-8504E  
**Panasonic:** DG-SF334, WV-SF342, WV-SF346  
**Samsung:** SNB-5000, SND-5080/F, SNV-3120, SNV-5080  
**Santec:** SNC-3903M, SNC-5321MIR, SNC-6163ID, SNC-6223MIR, SNC-6303M, SNC-P3603M  
**Sony:** SNC-DH110/B, SNC-DH110/W, SNC-DH110T/B, SNC-DH110T/W  
**Vidosec:** ICS-13, ICS-20F, ID-20  
**VIVOTEK:** IP8362, MD7530, VS8801  
**UDP:** NVC1000

### Notice:

1. Bug Fixed the bug thated:
  - Fixed the bug that Dallmeier preset function dump
  - ONVIF check startcode if using RTSP for H264 codec
  - Fixed the bug that Vivotek IP 7133 can't use AAC codec issue

## Release Version v1.10.0 (2011/04/15)

### Modules:

Device Pack v 1.10.0

### Supported Systems:

MainConsole v 3.3.0 & v 3.3.2 & v 3.3.12 & v 3.4 & 3.4.1

### New Camera Supported:

<b>Arecont:</b>	AV1325, AV2825, AV8185DN, AV8365DN
<b>AXIS:</b>	P1347, P1347-E, P5532, P5532-E, P5534-E, Q1921, Q1921-E
<b>D-link:</b>	DCS-6511, DCS-7410
<b>Fine:</b>	EDH-02H, SP-PTIR737-LA-IP, TCP-IR590-WD30, TCP-IR590-WD50, TCP-IRH5030C, TCP-IRH5040C
<b>IQinvision:</b>	IQ732N
<b>Panasonic:</b>	WV-SC384, WV-SC385, WV-SW395
<b>Sony:</b>	SNC-DH210/B, SNC-DH210/W, SNC-DH220, SNC-DH220T
<b>vForge:</b>	VFA1
<b>VIVOTEK:</b>	FD8133V, FD8134V, IP8151P, IP8162, IP8162P, MD7560

### Notice:

1. Bug Fixed the bug thated:
  - ACTi CAM7301: auto detection failure issue.
  - Arecont Camera: auto detection failure issue.
  - Axis Q7401 synchronizepreset point issue.
  - Dynacolor NH061: broken image issue (H.264/1280x720).
2. Bosch speed dome V4G series supported by Axis video server (test by model Q7404).

## Release Version v1.9.0 (2011/02/28)

### Modules:

Device Pack v 1.9.0

### Supported Systems:

MainConsole v 3.3.0 & v 3.3.2 & v 3.3.12 & v 3.4 & 3.4.1

### New Camera Supported:

**Arecont:** AV1315, AV2815

**AXIS:** 212 PTZ-V, 215 PTZ-E, 240Q Blade, 241Q Blade, 241S Blade, 243Q Blade, P1343-E, P1344-E, P1346-E, Q1755-E, Q6034-E

**Lilin:** IPS025, IPS030, IPS035, IPS125, IPS130, IPS135, IPS203, IPS212

**Panasonic:** WV-SP102, WV-SP105

**Sony:** SNC-CH260, SNC-CH280, SNC-DH210T/B, SNC-DH210T/W, SNC-DH260, SNC-DH280

### Notice:

1. Dallmeier DDZ40SM-HD: Add TCP connection, DI/DO and two-way audio.
2. Bug Fixed the bug thated: Panasonic WV-NS202A auto detection failure.

## Release Version v1.8.0 (2010/12/31)

### Modules:

Device Pack v 1.8.0

### Supported Systems:

MainConsole v 3.3.0 & v 3.3.2 & v 3.3.12 & v 3.4

### New Camera Supported:

**ACTi:** TCM7811,

**Hikvision:** DS-2CD7133-E, DS-2CD7153-E

**Levelone:** FCS-0040, FCS-3081, FCS-5051, FCS-5041, WCS-0040

**Lilin:** IPD112ESX, IPD552EX, IPR414ESX, IPR418ESX, IPR454, IPR458

**Sony:** SNC-CH110/B, SNC-CH110/S, SNC-CH220

### Notice:

1. Bug Fixed the bug thated: Users can adjust Arecont camera's resolution by setting four video coordinate values. (Not support Arecont 8000 series cameras.)

## Release Version v1.7.0 (2010/11/12)

### Modules:

Device Pack v 1.7.0

### Supported Systems:

MainConsole v 3.3.0 & v 3.3.2 & v 3.3.12 & v 3.4

### New Camera Supported:

**ACTi:** ACM5811, ACM7511, TCD2100, TCM3001, TCM3011, TCM3401, TCM3411, TCM4201, TCM5001, TCM7011

**ARM:** MP13DDNWD, MP13VPDN

**Camtron:** IPH3611N, NVE1000A, NVE2000A, NVE4000A

**CryptoTelecom:** S-152

**Dallmeier:** DDZ40SM-HD

**Panasonic:** BL-C210, BL-C230, WJ-GXE500, WV-SF332, WV-SF335, WV-SF336, WV-SP302, WV-SP305, WV-SP306

**Samsung:** SNS-100

**Sony:** SNC-CH120, SNC-CH160, SNC-CH210/B, SNC-CH210/S, SNC-DH120, SNC-DH120T, SNC-DH140T, SNC-DH160, SNC-DH240T

**Truen:** TCAM-570

**VIVOTEK:** FD8133, FD8134, IP8132, IP8151, IP8330, IP8332, PZ7132, SD81X1

### Notice:

1. Bug Fixed the bug thated: Panasonic WV-NP502 won't show error message when switching video codec to H.264.

## Release Version v1.6.0 (2010/10/7)

### Modules:

Device Pack v 1.6.0

### Supported Systems:

MainConsole v 3.3.0 & v 3.3.2 & v 3.3.12

### New Camera Supported:

**Arecont:** AV2805

**Camtron:** CMNC-130, CMNC-200, CTNC-5358D, HLC-81A D/P, HLC-83V, HLC-83V/W  
HLC-84V, HLC-84V/W

**Honeywell:** ACUIX, HCD554IP, HD3MDIP, HD4DIP, HD4MDIP, HNVE1

**PELCO:** IX10

**Pixord:** P600, P606, PB630, PD634, PL621, PV6901

**SAE:** ANNA 200M, E588HDE18C, E688HDE10

### Notice:

1. Bug Fixed the bug thated: Fine WB-8211SDU can use PTZ function.

## Release Version v1.5.0 (2010/8/31)

### Modules:

Device Pack v 1.5.0

### Supported Systems:

MainConsole v 3.3.0 & v 3.3.2 & v3.3.11

### New Camera Supported:

**Brickcom:** CB-100A, CB-100Ae, FB-100A, FB-100Ae, FD-100Ae, WCB-100Ae, WFB-100Ae

**Fine:** CDV-3VM301, CDV-3VM501, CDV-3VWD960, CDV-3VWD960H, EP-601HW, EP-908HW, EP-936HW, EP-HTQ935, EP-Q2018H-IP, EP-Q2018HW-IP, EP-Q2026H-IP, EP-Q2026HW-IP, EP-Q2036H-IP, EP-Q2036HW-IP, MD-D1612, SP-PTIR737-IP, TCMA-99, TCMP-99, TCP-IPWD690, TCP-IPWD700DN, TCP-IRV540, TCP-IRV560/50M, TCP-MH802, TCP-VM201, TCP-VM501, WB-H811, WB-H814

**Hikvision:** DS-2CD702NF-E, DS-2CD702PF-E, DS-2CD712NF-E, DS-2CD712PF-E, DS-2CD732F-E, DS-2CD792NF-E, DS-2CD792PF-E, DS-2CD802N-IR1, DS-2CD802N-IR3, DS-2CD802N-IR5, DS-2CD802P-IR1, DS-2CD802P-IR3, DS-2CD802P-IR5, DS-2CD832F, DS-2CD832F-E, DS-2DF1-401H, DS-2DF1-402H, DS-2DF1-601H, DS-2DF1-602H, DS-2DF1-603H, DS-2DF1-604H, DS-2DF1-605H, DS-2DF1-606H, DS-2DF1-607H, DS-2DF1-611H, DS-2DF1-612H, DS-2DF1-613H, DS-2DF1-614H, DS-2DF1-615H, DS-2DF1-616H, DS-2DF1-617H, DS-2DM1-602H, DS-2DM1-603H, DS-2DM1-604H, DS-2DM1-612H, DS-2DM1-613H, DS-2DM1-614H, DS-6101HFI-SATA, DS-6104HCI, DS-6104HCI-SATA

**NetworkCamera:** GE-100-CB, GP-100-CB, WGE-100-CB, WGP-100-CB

**PELCO:** ID10, ID30, IDE20, IDS0, IE10, IE30, IEE10, IEE20, IES0, IMS0, IX30, IXE20, IXS0

**Sony:** SNC-RS44N, SNC-RS44P, SNC-RS46N, SNC-RS84N, SNC-RS84P, SNC-RS86N, SNC-RS86P, SNT-EP104, SNT-EX101

**Vidosec:** IBF-211, ID-209, IDA-210, IP-206M, IS-240

### Notice:

1. Bug Fixed the bug thated: SANYO-HD5600P can change resolution.
2. Onvif supported: AXIS\_P3301, Bosch\_NWC-0455



## Release Version v1.4.0 (2010/8/9)

### Modules:

Device Pack v 1.4.0

### Supported Systems:

MainConsole v 3.3.0 & v 3.3.2 & v 3.3.11

### New Camera Supported:

**iCanTek:** iCanView362MP, iCanView332MP, iCanView350MP, iCanServer612

**SANTEC:** SNC-3901MDN, SNC-P3601M

## Release Version v1.3.0 (2010/7/21)

### Modules:

Device Pack v 1.3.0

### Supported Systems:

MainConsole v 3.3.0 & v 3.3.2

### New Camera Supported:

**ACTi:** TCM-1511

**Arecont:** AV10005

**AXIS:** M1103, M1113, M1054, Q6034

**Panasonic:** BB-HCM547A, BB-HCM701

**SANTEC:** SNC-6201M, SNC-5211MIR

**Sony:** SNT-EX154, SNT-EX101E, SNT-EP154, SNC-CH140, SNC-DH140, SNC-CH180,  
SNC-CH240, SNC-DH240, SNC-RH164, SNC-RS46P

### Notice:

1. Sony SNC-CH240, SNC-DH240 do not support resolution over 1920x1080

## Release Version v1.2.0 (2010/6/8)

### Modules:

Device Pack v 1.2.0

### Supported Systems:

MainConsole v 3.3.0 & v 3.3.2

### New Features

1. Support Arecont I/O function

### New Camera Supported:

**ACTi:** ACM-3601, ACM-3603, ACM-3701, ACM-3703, ACM-4001  
TCD-2500, TCM-4101, TCM-5312, TCM-1231, TCM-1232  
TCM-5601, TCM-5611, TCM-3511, TCM-7411

**Arecont:** AV3135, AV1310, AV2110, AV3110, AV5110

**AXIS:** P1346, P5534, Q1910, Q1910-E, M1104, M1114  
M3203, M3203-V, M3204, M3204-V, P3304, M7001

**CNB:** IDC4000T, IVC4000T

**IQeye:** IQ040S, IQ041S, IQ042S, IQD30S, IQD31S  
IQD40S, IQD41S, IQD42S, IQ540S, IQ541S, IQ542S

**Panasonic:** BB-HCM100, BB-HCM110, BB-HCM580, BL-C140A

**Samsung:** SNB-2000, SNB-3000, SND-3080, SNV-3080

**Sanyo:** VCC-HD2500, VCC-HD2500P

**Sony:** SNT-EX104, SNC-DH180, SNC-RH124

**StarDot:** SDH500BN, SDH500B, SDH300B, SDH130BN, SDH130B  
SDH500VN, SDH500V, SDH300V, SDH130VN, SDH130V

### Notice:

1. Bug Fixed the bug thated: Fixed the bug thated MainConsole unexpected crash issue with Mobotix Q24M-sec camera.

## Release Version v1.1.1 (2010/5/12)

### Modules:

Device Pack v 1.1.1

### Supported Systems:

MainConsole v 3.3.0 & v 3.3.2

### New Camera Supported:

**CNB:** IBE3815NVR, IBE3815PVR, IBE5810NCR, IBE5810PCR  
IDP4000VD, IDP4000VR, IDP4030VR, IGP1000, IGP1030  
IJB2000, INS2000, IPM3063N, IPM3063P, ISMC1063N, ISMC1063P  
ISS2765NW, ISS2765PW, IVP4000VR, IVP4030VR

**LevelOne:** FCS-7111

## Release Version v1.1.0 (2010/5/4)

### Modules:

Device Pack v 1.1.0

### Supported Systems:

MainConsole v 3.3.0 & v 3.3.2

### New Camera Supported:

**ACTi:** AMU-9401, AMU-9711, TMU-9811, TMU-9911

**Bosch:** NW-455

**Brickcom:** WCB-100A, WFB-100A, FD-100A

**CISCO:** WVC210

**Dynacolor:** nNH221, nNH061, V1, V6

**Everfocus:** EAN-850A, EZN-850, EDN-800, EDN-850H, EAN900, EAN800AW, EAN800A  
EVS200A, EVS200AW, EPN2700, EPN3100, EPN3600

**LevelOne:** FCS-3031, FCS-3051, FCS-1131, FCS-1141, FCS-3071, FCS-0030, WCS-0030  
FCS-1121, FCS-3061, FCS-4020, FCS-1040 v3.0, WCS-2040 v3.0, FCS-1151

**MOBOTIX:** D24M-Basic, D24M-IT, D24M-Sec

**Panasonic:** BB-HCM705A, BB-HCM715A, BB-HCM735A

**Samsung:** SNP-3300A

**SanTec:** SNC-390DN/W, SNC-521IR/W, SNC-565IR/W, SNC-620/W, SNC-670ID/W

**Sanyo:** VCC-HD3500, VDC-HD3500, VDC-HD3500p, VCC-HD2100, VCC-HD2100P  
VCC-HD2300, VCC-HD2300P, VDC-HD3100, VDC-HD3100P  
VCC-HD3300, VDC-HD3300, VDC-HD3300P, VCC-HD4600, VCC-HD4600P  
VCC-HD5400, VCC-HD5400P, VCC-HD5600, VCC-HD5600P

**StarDot:** SD-130, SD-300, SD-500, SDEXP4, SDEXP2

**VIVOTEK:** IP8161, VS8102, FD8161, FD8361

### Notice:

1. Only compatible with NUUO MainConsole v3.3.0 above
2. Must install Main Console software before install device pack v1.1.0