Release Version 3.11.0 (2019/12)

Modules

Item			Version
FW	NVR	NS-2040	03.11.0000.0003
		NS-2080	
		NS-2160	
	Camera Package		DP v19.10.0.36
Application	Install Wizard		6.1.705.19
	Remote Live Viewer		6.1.705.19
	Playback System		6.1.705.19
	Backup System		6.1.705.19
	Verification Tool		6.1.705.0
	Offline License Tool		2.0.4.4
Document	Local User manual		3.1
	Remote User manual		3.1
	QSG		3.1

Bugs Fixed

1. Vulnerability CVE-2019-9653.

2. Smtp sends Japanese, google outlook display garbled characters.

3. SMTP server sends test email failed.

4. Camera password has special characters that cannot be stored in NVR web.

Enhancement

1. Update DP to v19.10.0.36.

2. Update php to 5.6.40.

3. Change P2P provider to TUTK.

4. Support SCB-A10.

5. Local PTZ panel delay.

6. ezNUUO CPU load improvement.

Release Version 3.10.0 (2018/12)

Modules

Item			Version
FW	NVR	NS-2040	03.10.0000.0006
		NS-2080	
		NS-2160	
		NS-8060	
		NS-8160	
		NS-8065	
		NS-8165	
	Camera Package		DP v18.11.0.18
Application	Install Wizard		6.1.705.19
	Remote Live Viewer		6.1.705.19
	Playback System		6.1.705.19
	Backup System		6.1.705.19
	Verification Tool		6.1.705.0
	Offline License Tool		2.0.4.4
Document	Local User manual		3.1
	Remote User manual		3.1
	QSG		3.1

Bugs Fixed

1. Vulnerability CVE-2018-14933.

2. Commit email setting will clear password element.

Enhancement

1. Add password mask for Email, Camera and FTP.

2. System password changes will be logged out for greater security.

3. Enhance web security.

4. Enhance NUUO protocol security.

5. Network service setting fool-proofing.

6. P2P internal enhancement.

Release Version 3.9.1 (2018/09)

Modules

Item			Version
FW	NVR	NE-2020	03.09.0001.0002
		NE-2040	
		NE-4080	
		NE-4160	
	Camera Package		DP v18.9.0
Application	Install Wizard		6.1.705.18
	Remote Live Viewer		6.1.705.18
	Playback System		6.1.705.18
	Backup System		6.1.705.18
	Verification Tool		6.1.705.18
	Offline License Tool		6.1.705.18
Document	Local User manual		3.1
	Remote User manual		3.1
	QSG		3.1

Bugs Fixed

1. Fix vulnerability issues i.

    CVE-2018-1149

    ii.   CVE-2018-1150

    iii.   CVE-2018-11523

2. #4412: EHLO failed when any non-alphabet is inside host name (server name)

Special Notice:

1. DtDNS had ceased operations as of August 1, 2018.

Release Version 3.8.0 (2018/05)

Modules

Item			Version
FW	NVR	NE-2020	03.08.0000.0005
		NE-2040	
		NE-4080	
		NE-4160	
	Camera Package		DP v18.5.0
Application	Install Wizard		6.1.705.18
	Remote Live Viewer		6.1.705.18
	Playback System		6.1.705.18
	Backup System		6.1.705.18
	Verification Tool		6.1.705.18
	Offline License Tool		6.1.705.18
Document	Local User manual		3.1
	Remote User manual		3.1
	QSG		3.1

New Feature

1. Compliance with Europe GDPR Regulation of User Privilege Export Encryption

Enhancement

1. Update Japanese Language

2. Update DP to v18.5.0.18

Bugs Fixed

1. Fix FAE#4323 : User password's characters issue.

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Release Version 3.7.0 (2018/04)

Modules

Item			Version
FW	NVR	NE-2020	03.07.0000.0011
		NE-2040	
		NE-4080	
		NE-4160	
	Camera Package		DP v18.4.0
Application	Install Wizard		6.1.705.18
	Remote Live Viewer		6.1.705.18
	Playback System		6.1.705.18
	Backup System		6.1.705.18
	Verification Tool		6.1.705.18
	Offline License Tool		6.1.705.18
Document	Local User manual		3.1
	Remote User manual		3.1
	QSG		3.1

Enhancement

1. Update ActiveX to 6.1.705.18

2. Update DP to v18.4.0.33

3. Export / Import add more configs information

    • User account

    • Date/time setting

    • Network setting

4. Enhance for NuClient interconnect Solo

    • Supports sending Time Zone

    • Server Name Issue

5. Enhance diagnostic tool

    • md5check.txt : md5 check result

    • netstat : netstat -plnt

    • /NUUO/lib/ipcampack.conf : device pack version

Bugs Fixed

1. Fix FAE#4222 : Daily report didn't show as html.

2. Fix FAE#4247 : Local menu can't create volume, even the size is under 16TB.

Release Version 3.6.5 (2018/02)

Modules

Item			Version
FW	NVR	NE-2020	03.06.0005.0002
		NE-2040	
		NE-4080	
		NE-4160	
	Camera Package		DP v18.2.0.25
Application	Install Wizard		6.1.705.17
	Remote Live Viewer		6.1.705.17
	Playback System		6.1.705.17
	Backup System		6.1.705.17
	Verification Tool		6.1.705.17
	Offline License Tool		6.1.705.17
Document	Local User manual		3.1
	Remote User manual		3.1
	QSG		3.1

Enhancement

1. N/A

Bugs Fixed

1. Fix FAE# Enhance configures while doing backup

Release Version 3.6.2 (2017/12)

Modules

Item			Version
FW	NVR	NE-2020	03.06.0002.0006
		NE-2040	
		NE-4080	
		NE-4160	
	Camera Package		DP v5.13.0
Application	Install Wizard		6.1.705.17
	Remote Live Viewer		6.1.705.17
	Playback System		6.1.705.17
	Backup System		6.1.705.17
	Verification Tool		6.1.705.17
	Offline License Tool		6.1.705.17
Document	Local User manual		3.1
	Remote User manual		3.1
	QSG		3.1

Enhancement

1. Upgrade PHP to 5.6.32

2. Update ActiveX to 6.1.705.17

3. Enhance HDD S.M.A.R.T information

4. Enhance embedded motion log for troubleshooting

5. (FAE #3928) Enhance volume recycle mechanism

6. (FAE #3912) Support to send e-mail by sever with non-English server name

7. Enhance backup configurations

8. (FAE#4056) Upgrade lighttpd from 1.4.43 to 1.4.48

Bugs Fixed

1. Fix FAE#3920, 3953 :Unable to playback recordings of Vivotek cameras VS3100 and IP3132 in Remote Playback.

2. Fix FAE#4026 : Auto backup to ftp failed

Release Version 3.5.0 (2017/08)

Modules

Item		Version
FW	NVR	03.05.0000.0016
	Camera Package	DP v5.9.0
Application	Install Wizard	6.1.705.15
	Remote Live Viewer	6.1.705.15
	Playback System	6.1.705.15
	Backup System	6.1.705.15
	Verification Tool	6.1.705.15
	Offline License Tool	6.1.705.15
Document	Local User manual	3.1
	Remote User manual	3.1
	QSG	3.1

New Features

1. Add diagnostic Tool
2. Update Activex to 6.1.705.15

Bugs Fixed

Known Issues

Release Version 3.4.0 (2017/05)

Modules

Item		Version
FW	NVR	03.04.0000.0019
	Camera Package	DP v5.7.0
Application	Install Wizard	6.1.705.13
	Remote Live Viewer	6.1.705.13
	Playback System	6.1.705.13
	Backup System	6.1.705.13
	Verification Tool	6.1.705.13
	Offline License Tool	6.1.705.13
Document	Local User manual	3.1
	Remote User manual	3.1
	QSG	3.1

New Features

1. Enhance the strategy of setting backup

2. Add "Inactive notification" of P2P service

3. Add "Always connected" for improving APP experience

4. Support Axis Generic with real model name

5. Support Java web for Firefox on RedHat & Ubuntu

Bugs Fixed

Known Issues

Release Version 3.3.0 (2017/2)

Modules

Item		Version
FW	NVR	03.03.0000.0009
	Camera Package	DP v5.4.0
Application	Install Wizard	6.1.705.13
	Remote Live Viewer	6.1.705.13
	Playback System	6.1.705.13
	Backup System	6.1.705.13
	Verification Tool	6.1.705.13
	Offline License Tool	6.1.705.13
Document	User manual	3.1.0
	QSG	3.1.0

New Features

1. Pack latest Device Pack v 5.4.0

Bugs Fixed

N/A

Known Issues

Release Version 3.2.0 (2016/12)

Modules

Item		Version
FW	NVR	03.02.0000.0014
	Camera Package	DP v5.2.0
Application	Install Wizard	6.1.705.13
	Remote Live Viewer	6.1.705.13
	Playback System	6.1.705.13
	Backup System	6.1.705.13
	Verification Tool	6.1.705.13
	Offline License Tool	6.1.705.13
Document	User manual	3.1.0
	QSG	3.1.0

New Features

1. Update Activex to 6.1.705.13
2. Pack latest Device Pack v 5.2.0
3. Upgrade Dropbear SSH to v2016.74
4. Upgrade Lighttpd to 1.4.42
5. Upgrade SSL to 0.9.8zh

Bugs Fixed

1. Fix FTP Username and Password length limitation to 32
2. Fix Disk S.M.A.R.T status
3. Fix Playback icon for event log
4. Fix Reset Button Failure

Known Issues

Release Version 3.1.0 (2016/09)

Modules

Item		Version
FW	NVR	03.01.0000.0073
	Camera Package	DP v4.16
Application	Install Wizard	6.1.705.9
	Remote Live Viewer	6.1.705.9
	Playback System	6.1.705.9
	Backup System	N/A
	Verification Tool	N/A
	Offline License Tool	1.0
Document	User manual	3.1.0
	QSG	3.1.0

New Features

1. Update Activex to 6.1.705.9

Bugs Fixed

1. Fix Linux vulnerability issues

Known Issues

Release Version 3.0.0 (2016/03/01)

Modules

Item		Version
FW	NVR	03.00.0000.0056
	Camera Package	DP v4.9
Application	Install Wizard	3.0.0
	Remote Live Viewer	3.0.0
	Playback System	3.0.0
	Backup System	3.0.0
	Verification Tool	3.0.0
	Offline License Tool	3.0.0
Document	User manual	3.0.0
	QSG	3.0.0

New Features

1. 2nd stream record-dual record.

2. Support H.265
   Supported camera only

3. Hungarian Support

Bugs Fixed

1. Emergency record will start when stop at first time login and switch to playback.

2. WAN file backup timeout when transferring large files is fixed.

3. WAN playback performance is enhanced by adding new NUPP command "NEXTGOP".

4. Fix remote playback can't use "select folder" to show POS issue.

5. Drag and Drop will sometime malfunction during high CPU usage is fixed.

Known Issues

1. User needs to use client pack 6.1.705.5 for new features to avoid failure.

Release Version 2.2.1 (2015/02/11)

Modules

Item		Version
FW	NVR	02.02.0001.0004
	Camera Package	DP v3.11
Application	Install Wizard	2.2.1
	Remote Live Viewer	2.2.1
	Playback System	2.2.1
	Backup System	2.2.1
	Verification Tool	2.2.1
	Offline License Tool	2.2.1
Document	User manual	2.2.1
	QSG	2.2.1

New Features

1. Support new event: recurrent event

Bugs Fixed

1. Fixed server failed to send out email when DI triggered.
2. Fixed 2-way audio failed to work on CMS under some condition.
3. Fixed that color of video is distorted when using fisheye dewarp.
4. Fix the bug that unable to support touch screen[i] under specific circumstances.
5. Fix video hang when using specific camera model.

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[i] Please refer to compatible touch screen list.

Release Version 2.0.0 (2014/03/11)

Modules

Item		Version
FW	NVR	02.00.0000.0097
	Camera Package	DP v3.1 03. 01.0000.0032
Application	Install Wizard	2.0.0
	Remote Live Viewer	2.0.0
	Playback System	2.0.0
	Backup System	2.0.0
	Verification Tool	2.0.0
	Offline License Tool	2.0.0
Document	User manual	2.0.0
	QSG	2.0.0

New Features

1. Support camera multi-stream setting for saving remote bandwidth[1].
2. Support camera two-way audio[2](L Internet Explore only).
3. New action supported[3]:
   - Camera snapshot to FTP.
   - E-mail with snapshot.
   - Send to CMS with snapshot.
4. Execute HDD S.M.A.R.T self-test on server. Monitor hard dives health easily.
5. Support A08 I/O Box.
6. Enhance event log: click and play and log viewer(Internet Explore only)
7. Compatible with Windows Chrome and Mac safari v6.1 and v7.0.

Known Issue and Limitation

1. Some functions may not work properly on Internet Explorer 11. Internet Explorer 8, 9, 10, Windows Chrome or Mac Safari v6.1 and v7.0 is recommended. IE11 will be officially supported in the coming version.
2. V1.7.6 is the minimum version for upgrade to v2.0. Please upgrade to v1.7.6 before upgrade to v2.0.

Please find DP 3.1 release note for camera integration, bug fixed and known issue.

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[1] DP 3.1 and above
[2] DP 3.1 and above
[3] DP 3.1 and above

Release Version 1.7.6 (2014/01/07)

Modules

Item		Version
FW	NVR	01.07.0006.0002
	Camera Package	DP v2.19 02.19.0000.0028
Application	Install Wizard	1.7.5
	Remote Live Viewer	1.7.5
	Playback System	1.7.5
	Backup System	1.7.5
	Verification Tool	1.7.5
	Offline License Tool	1.7.5
Document	User manual	1.7.5
	QSG	1.6.1

Bug Fixed
1. Fixed the issue that upgrade process may fail when the storage is not enough in flash.

Known Issue
1. Not support log viewer in this version. It will be fixed in v2.0.

Please find DP 2.19 release note for camera integration, bug fixed and known issue.

Release Version 1.7.5 (2013/11/19)

Modules

Item		Version
FW	NVR	01.07.0005.0007
	Camera Package	DP v2.18 02.18.0000.0025
Application	Install Wizard	1.7.5
	Remote Live Viewer	1.7.5
	Playback System	1.7.5
	Backup System	1.7.5
	Verification Tool	1.7.5
	Offline License Tool	1.7.5
Document	User manual	1.7.5
	QSG	1.6.1

Enhancement
1. Improve the backup mechanism to be able to backup videos via WAN with stable 2M bandwidth.[1]

Bug Fixed
2. Fixed the issue that recording mode will be changed from motion recording to always recording under certain conditions.
3. Fixed the issue that no video images show when clicking to playback as receiving push notification on mobile.
4. Enhance the file system to improve recording stability.
5. Fixed the communication issue between CMS and NVR to be able to view the videos of the associated camera of digital input.
6. Support to convert words to unicode in Install Wizard to be able to display some special characters (e.g. ß) on setting page (Internet Explorer).

Please find DP 2.18 release note for camera integration, bug fixed and known issue.

Release Version 1.7.2 (2013/9/6)

Modules

Item		Version
FW	NVR	01.07.0002.0006
	Camera Package	DP v2.16 02.16.0000.0026
Application	Install Wizard	1.7.0
	Remote Live Viewer	1.7.0
	Playback System	1.7.0
	Backup System	1.7.0
	Verification Tool	1.7.0
	Offline License Tool	1.7.0
Document	User manual	1.7.0

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[1] The bit rate of the camera to backup is 4Mbps. If the bit rate is higher, the more stable bandwidth is needed.

	QSG	1.6.1

Bug Fixed

1. Fixed the issue that the DNS settings can't be applied to system, which implies that the following functions may not work properly.
   - Send out an email as a responding action for events
   - Use DDNS service
   - Activate license online
   - Receive auto upgrade notification

[Impact coverage & action item]

Device	Conditions	Action Items
NE-2020/NE-2040	The devices with FW v1.7.0/v1.7.1 users attempt to change its DNS settings	Upgrade to v1.7.2
NE-4080/NE-4160	The "new" devices with FW v1.7.0/v1.7.1 users choose DHCP as its IP instead of static IP.	1. Manually configure IP on Network Settings page or 2. Upgrade to v1.7.2

[No impact] No matter it's 2bay or 4bay device, as long as you don't change its DNS settings, the system works fine even upgrading to v1.7.0 or v1.7.1.

Please find DP 2.16 release note for camera integration, bug fixed and known issue.

Release Version 1.7.1 (2013/8/12)

Modules

Item		Version
FW	NVR	01.07.0001.0001
	Camera Package	DP v2.15 02.15.0000.0033
Application	Install Wizard	1.7.0
	Remote Live Viewer	1.7.0
	Playback System	1.7.0
	Backup System	1.7.0
	Verification Tool	1.7.0
	Offline License Tool	1.7.0
Document	User manual	1.7.0
	QSG	1.6.1

Bug Fixed

1. Fixed the issue that recorded videos may become black sometimes after watching live videos on mobile client or switching to multi stream to view on web/remote live viewer.

   *Upgrading FW cannot repair those videos which have became black already, but we have a solution to fix the videos without any problem. Please submit the request on http://www.nuuo.com/eHelpdesk.php .

Please find DP 2.15 release note for camera integration, bug fixed and known issue.

Release Version 1.7.0 (2013/7/3)

Modules

Item		Version
FW	NVR	01.07.0000.0118
	Camera Package	DP v2.14 02.14.0000.0029
Application	Install Wizard	1.7.0
	Remote Live Viewer	1.7.0
	Playback System	1.7.0
	Backup System	1.7.0
	Verification Tool	1.7.0
	Offline License Tool	1.7.0
Document	User manual	1.7.0
	QSG	1.6.1

New Features

1. Compatible with Windows 8 32/64-bit.
2. Compatible with IE 10 (32-bit).
3. Generic fisheye dewarp function to support 360° fisheye camera.[2]
4. New skin 1366x768 (TV standard).
5. License is transferrable.
6. Support to associate a camera with input pin, which will be the communication media for server and client. (e.g. when an input was triggered and pushed a notification to mobile, users can playback the videos of its associated camera.)
7. New language: Croatian, Thai.
   - The total language support is up to 22, including English, Croatian, Czech, Deutsch, Finnish, French, Hebrew, Hungarian, Italian, Japanese, Korean, Dutch, Polish, Portuguese (Brazil) , Russian, Serbian, Simplified Chinese, Traditional Chinese, Spanish, Swedish, Thai, and Turkish.

Enhancement

1. Enhance the speed of file system check, and add a mechanism to execute file system check at boot time.
2. Internet interface selection to choose which LAN is connected to the internet.[3]
3. Modify RAID Management page to separate embedded disk(s) and external disk (DAS) from two groups, which implies there is no way to create a single volume with both embedded and external disks inside.[4]
4. Dual stream default enabled.

Bug Fixed

7. System won't disconnect all cameras and make web page inaccessible when the number of recording

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[2] Axis P5544 and Vivotek CC8130 are excluded.

[3] This is the enhancement for 4bay device. There is no longer to fix the Internet access to LAN 1 for sending mails, activating license online, receiving auto upgrade notification, etc.

[4] It's still functional for the current NVR which has created a single volume with both embedded and external disks after upgrading. However, if users delete this volume, there is no way to create the same volume back. Please do the backup before upgrading

camera is large and recording bit rate is low (e.g. 16ch video with 1~2Mbps).

8. Enlarge the maximum size of single volume to 16TB.
9. Fixed the issue that the configurations of recording schedule and user account weren't applied to system after restoring from abnormal shutdown.
10. Optimize the audio quality of cameras with GSM-AMR codec.

Known Issues

1. POS transaction can't be exported by Remote Playback. Please do the export on web page. This issue will be fixed in the next version.

Please find DP 2.14 release note for camera integration, bug fixed and known issue.

Release Version 1.6.4 (2013/5/24)

Modules

Item			Version
FW	NVR	NE-2020	01.06.0002.0116
		NE-2040	01.06.0004.0116
		NE-4080	01.06.0008.0116
		NE-4160	01.06.0016.0116
	Camera Package		DP v2.12 02.12.0000.0034
Application	Install Wizard		1.6.2
	Remote Live Viewer		1.6.2
	Playback System		1.6.2
	Backup System		1.6.2
	Verification Tool		1.6.2
	Offline License Tool		1.6.2
Document	User manual		1.6.4
	QSG		1.6.1

Enhancement

1. Add an interfaces to configure the timing of doing automatically recycle. The **recommended** percentage is <u>recycling when the storage space less than 10%</u>.

Bug Fixed

1. System won't hang up even the efficiency of disk goes down under high loading.

Please find DP 2.12 release note for camera integration, bug fixed and known issue.

Release Version 1.6.2 (2013/4/1)

Modules

Item			Version
FW	NVR	NE-2020	01.06.0002.0113
		NE-2040	01.06.0004.0113
		NE-4080	01.06.0008.0113

		NE-4160	01.06.0016.0113
	Camera Package		DP v2.10 02.10.0000.0015
Application	Install Wizard		1.6.2
	Remote Live Viewer		1.6.2
	Playback System		1.6.2
	Backup System		1.6.2
	Verification Tool		1.6.2
	Offline License Tool		1.6.2
Document	User manual		1.6.1
	QSG		1.6.1

Enhancement

2. New audio codec PCM 11025Hz support for D-Link cameras.

Bug Fixed

2. If preset points of a camera are named in Japanese, IE browser may crash as trying to connect this camera by double-clicking on it from the camera list in Live View. The default preset name for Panasonic BB/BL series is written in Japanese.

Please find DP 2.10 release note for camera integration, bug fixed and known issue.

Release Version 1.6.1 (2012/11/21)

Modules

Item			Version
FW	NVR	NE-2020	01.06.0002.0109
		NE-2040	01.06.0004.0109
		NE-4080	01.06.0008.0109
		NE-4160	01.06.0016.0109
	Camera Package		DP v2.7 02.07.0000.0013
Application	Install Wizard		1.6.1
	Remote Live Viewer		1.6.1
	Playback System		1.6.1
	Backup System		1.6.1
	Verification Tool		1.6.1
	Offline License Tool		1.6.1
Document	User manual		1.6.1
	QSG		1.6.1

New Features

1. Show customized input pin name on OSD as input trigger.
2. New language: Simplified Chinese
   - The total language support is up to 19, including English, Japanese, Traditional Chinese, Spanish, Deutsch, Finnish, French, Hungarian, Italian, Russian, Czech, Korean, Polish, Dutch, Serbian, Swedish, Portuguese (Brazil), Turkish, and Hebrew.

Enhancement

1. Time-overlapped is no longer an issue on video playing and POS text display.
2. Improve live view connection queue mechanism

Bug Fixed
1. Support Unicode preset name to fix the issue that users cannot save the preset name successfully.
2. The stream profile should be what users modified when re-executing Remote Live Viewer.

Known Issues
1. To make sure the future function expansion and upgrading quality, from version v1.6.1, users are only allowed to update system as RAID volume created. What's more, there must be at least 300MB free space of this volume.

Please find DP 2.7 release note for camera integration, bug fixed and known issue.

Release Version 1.6.0 (2012/9/20)

Modules

Item			Version
FW	NVR	NE-2020	01.06.0002.0105
		NE-2040	01.06.0004.0105
		NE-4080	01.06.0008.0105
		NE-4160	01.06.0016.0105
	Camera Package		DP v2.4.2 02.04.0000.0010
Application	Install Wizard		1.0.0.34
	Remote Live Viewer		4.0.1.7
	Playback System		4.0.1.7
	Backup System		4.0.1.7
	Verification Tool		4.0.0.0
	Offline License Tool		2.0.0.7
Document	User manual		1.6.0
	QSG		1.6.0

New Features
1. Push notification support on NUUO mobile client[1] to receive instant notification as an event occurs.
2. Completely-compatible remote application with Mainconsole family.
   - Wide screen 16:9 / 16:10 support
   - New action to pop up E-map on Live View as an event triggered
   - Metadata (POS) search in Live View
   - Save/load configuration
3. New language: Turkish, Hebrew[2].
   - The total language support is up to 19, including English, Japanese, Traditional Chinese, Spanish, Deutsch, Finnish, French, Hungarian, Italian, Russian, Czech, Korean, Polish, Dutch, Serbian, Swedish, Portuguese (Brazil), Turkish, and Hebrew.

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[1] Only iViewer v2.4 on iPhone/iPad supports push notification at this moment.
[2] The current GUI design is not Right-to-Left (RTL) in Hebrew.

Enhancement

1. Optimize license mechanism and error code.
2. Add CPU loading data in System Information page.
3. Enhance function/message expression.
4. Specify recording status on the Camera Status page, including No recording, Always Record (Recording / Stopped), Record by Schedule (Recording / Stopped).

Known Issues

1. We do some modifications to make remote application compatible, so there are few limitation:
   - Since E-map popup function is moved from Live View to a selection of actions in v1.6.0, users can't expect to have E-map popup on new AP as connecting the NVR server which FW version is lower than v1.6.0.
   - Cannot execute backup in Playback System v4.0.1 as connecting NVR server which FW version is lower than v1.6.0. Please upgrade the server or execute the old version AP.
   - Event logs are not shown on date/time search dialog if this period of video isn't backed up with Playback System. Since web playback doesn't support backup with Playback System, the issue must exist. We will improve this part in coming version.
2. Time-overlapped issue isn't solved on POS yet. The video time is correct, but the POS data attached with time-overlapped videos might be wrong. For example, selecting the first 01:00 video to play, but the POS transaction showing on video may belong to the second 01:00 video. We will fix it in v1.6.1.

Please find DP 2.4.2 release note for camera integration, bug fixed and known issue.

Release Version 1.5.2 (2012/7/5)

Modules

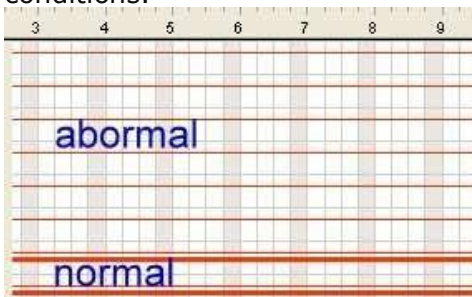| Item			Version
FW	NVR	NE-2020	01.05.0002.0096
		NE-2040	01.05.0004.0096
		NE-4080	01.05.0008.0096
		NE-4160	01.05.0016.0096
	Camera Package		DP v2.1 02.01.0000.0008

Bug Fixed

1. Fixed the issue that users are unable to playback the video by selecting recording bar which is with THIN red line but without BOLD red line in date/time search dialog based under certain conditions.

- Conditions: The issue occurs when users are trying to click on the schedule bar of the video which is recording "now" and not formed as a single clip yet. (The video clip is 5 minutes) System may detect error, and the next day, users cannot playback properly.
- Workaround: The workaround is selecting video period by entering the time section manually.
- Solution: Even upgrading to v1.5.2, entering time manually is still the only way for tracing back the recording period without bold line.

Release Version 1.5.1 (2012/5/25)

Modules

Item			Version
FW	NVR	NE-2020	01.05.0002.0095
		NE-2040	01.05.0004.0095
		NE-4080	01.05.0008.0095
		NE-4160	01.05.0016.0095
	Camera Package		DP v2.1 02.01.0000.0008

Bug Fixed

1. Fixed the issue that system might keep restarting as NTP enabled.
2. Enhance daylight saving behavior. If the NVR is with daylight saving enabled, please modify the daylight saving recurrence period after upgrading.

New Camera Supported

Refer to DP v2.1.

Release Version 1.5.0 (2012/4/25)

Modules

Item			Version
FW	NVR	NE-2020	01.05.0002.0094
		NE-2040	01.05.0004.0094
		NE-4080	01.05.0008.0094
		NE-4160	01.05.0016.0094
	Camera Package		DP v2.0.0 02.00.0000.0006
Application	Install Wizard		1.0.0.30
	Remote Live Viewer		2.10.0.6
	Playback System		2.10.0.6
	Backup System		2.10.0.6
	Verification Tool		2.10.0.6
	Offline License Tool		1.0.1.47
Document	User manual		1.5.0
	QSG		1.3.0 (no update)

New Features
1. Support NTP server synchronization.
2. Implement with Device Pack v2.0.0 – users are able to upgrade single NVRmini 2 DP[1] in the future for quick camera support update.

Enhancement
1. Daylight saving time enhancement on wizard and web setting.
2. Recording server, Playback AP and Backup AP enhancement, which allows choosing which time-overlapped videos to play and backup. Please notice that it works when time-overlapped videos are recorded after server upgrade, which implies that you can't track back time-overlapped videos recorded previously even you use Playback/Backup AP with v1.5.0.

Bug Fixed
1. Fixed the issue that motion detection of Vivotek cameras with new camera FW doesn't work in the conditions of selecting more than 3 motion detect areas.
2. Enable camera watermark automatically to support Vivotek FE8171V dewarp function.[2]

Known Issues
1. Time-overlapped issue isn't solved on POS yet. The video time is correct, but the POS data attached with time-overlapped videos might be wrong. For example, selecting the first 01:00 video to play, but the POS transaction showing on video may belong to the second 01:00 video. We may fix it in coming version.

Please find DP 2.0.0 release note for camera integration, bug fixed and known issue.

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[1] Please be aware that the spec of NVRmini 2 DP and the spec of IP+ DP are almost identical, but the packs are separated.
[2] Vivotek FE8171V dewarp feature only works when watermark function is enabled, however, it defaults disable. Even worse, there is no interface on camera web to change settings.

Release Version 1.4.0 (2012/3/6)

Modules

Item			Version
FW	NVR	NE-2020	01.04.0002.0084
		NE-2040	01.04.0004.0084
		NE-4080	01.04.0008.0084
		NE-4160	01.04.0016.0084
	Camera Package		01.03.0000.0084
Application	Install Wizard		1.0.0.21
	Remote Live Viewer		2.9.1.9
	Playback System		2.9.1.9
	Backup System		2.9.1.9
	Verification Tool		2.9.1.9
	Offline License Tool		1.0.1.47
Document	User manual		1.4.0
	QSG		1.3.0

New Features

1. Support Vivotek fisheye camera FE8171V de-warp function.
   - Original
   - Rectilinear mode
   - Full-view panorama mode
   - Dual-view panorama mode
2. **2.** Support ONVIF search for cameras implemented with ONVIF protocol, including Sunell, Everfocus, Probe, and Digital Watch Dog.[1]
3. Add continuous zoom function on Panasonic DG-SC385 and WV-SC385.

Enhancement

1. Improve the upgrade mechanism; users must upgrade to this version before doing further upgrade. If users skip v1.4.0, and try to upgrade v1.5.0 directly, UI may show error message: Upload fail. Current NVR version cannot smaller than 01.04.XXXX.0084.

Bug Fixed

1. Synchronize the zoom in/out scale of Panasonic DG-SC385 and WV-SC385 with camera web.
2. Fixed 2nd~4th channel connection issue on Arecont 4-ch models.
3. Fixed the issue that Axis 210A may be disconnected after long time connection.

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[1] Due to the limitation of ONVIF protocol, ONVIF search works only as cameras keep default administrator name and password.

Release Version 1.3.2 (2011/1/9)

Modules

Item			Version
FW	NVR	NE-2020	01.03.0002.0075
		NE-2040	01.03.0004.0075
		NE-4080	01.03.0008.0075
		NE-4160	01.03.0016.0075
	Camera Package		01.03.0000.0075

New Features

1. Add continuous PTZ function on Vivotek VS8102. (1.3.1)

Bug Fixed

1. Fixed the issue that the second to forth channel of Fine WB-H814 cannot be connected. (1.3.1)
2. Fixed the wrong model name detection issue on Fine WB-H814.[1] (1.3.1)
3. DDNS configuration can be updated successfully. (1.3.1)
4. Fixed the issue that frame rate and bit rate data on camera status page go wrong as users enable dual stream or start preset point patrol. (1.3.1)
5. Add output duration title on the setting page. (1.3.1)

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[1] We cannot assure the detection result if the camera returns slowly due to poor network connection.

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Release Version 1.3.0 (2011/12/5)

Modules

Item			Version
FW	NVR	NE-2020	01.03.0002.0065
		NE-2040	01.03.0004.0065
		NE-4080	01.03.0008.0065
		NE-4160	01.03.0016.0065
	Camera Package		01.03.0000.0065
Application	Install Wizard		1.0.0.21
	Remote Live Viewer		2.8.1.7
	Playback System		2.8.1.7
	Backup System		2.8.1.7
	Verification Tool		2.8.1.7
	Offline License Tool		1.0.1.47
Document	User manual		1.3.0
	QSG		1.3.0

New Features

1. Output duration: control the duration of output as it's triggered.
2. **Dual stream**
   Dahua
   Everfocus
   Forenix
   Samsung[2]
   Sunell
   UDP

Enhancement

1. Enhance POS search mechanism.
   - Test Summary
     - ✓ We recommend "searching by date", however, if the size of each transaction data is under 1KB[3], user can search 3-day's data at a time.
     - ✓ "Searching by date and playing" works properly under the conditions of "recording 33000 transactions per day, accumulating 3 million in three months and **the average size of each transaction data is under 3KB**"
   - Known Issue
     - ✓ The search engine doesn't work sometimes, if users encounter this issue, please try to search again.
2. Enhance the audio playing mechanism that audio is playing properly even under the circumstances of relative poor network.

Bug Fixed

1. Fixed Install Wizard's bug that there is no server searched sometimes.
2. eSATA LED on front panel should be on as well while external device (i.e. DAS) connected with first eSATA port.
3. Fixed the issue that motion detection function doesn't work on Sony 3rd and 4th generation cameras[4].

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[2] SNB-1000, SNB-5000, SND-1010, SND-5080/F, SNO-5080R, SNP-3120/V/VH, SNP-3430H, SNP-5200, SNP-5200H, SNV-5080, SNV-5080R, SPE-100

[3] 1KB is approx. 1000 characters

[4] SNC-CM120, SNC-CS20, SNC-CS50, SNC-DF50, SNC-DF80, SNC-DF85, SNC-DM110, SNC-DM160, SNC-DS10, SNC-DS60, SNC-RX530, SNC-RX550, SNC-RX570, SNC-RZ50

4. Fixed the issue that camera parameter of Panasonic i-pro series cameras "may" be reset to default as camera reconnects after camera disconnected a while and NVR was trying to reconnect it.
5. Fixed the parameter settings of Panasonic WV-SP102 and WV-SP105.
6. Fixed the issue that bit rate of Panasonic DG-SF334 cannot be modified.
7. Fixed the issue that system doesn't detect Eneo camera motion right as motion is triggering.
8. Vivotek IP71XX series cameras are compatible with iViewer.
9. Upgrade camera FW to XNET.A1-1.1.11.0706 to fix IVP4030VR/IDP4030VR main stream disconnection issue as querying dual stream.

Release Version 1.3.0 (2011/12/5)

Modules

Item			Version
FW	NVR	NE-2020	01.03.0002.0065
		NE-2040	01.03.0004.0065
		NE-4080	01.03.0008.0065
		NE-4160	01.03.0016.0065
	Camera Package		01.03.0000.0065
Application	Install Wizard		1.0.0.21
	Remote Live Viewer		2.8.1.7
	Playback System		2.8.1.7
	Backup System		2.8.1.7
	Verification Tool		2.8.1.7
	Offline License Tool		1.0.1.47
Document	User manual		1.3.0
	QSG		1.3.0

New Features

1. Output duration: control the duration of output as it's triggered.
2. **Dual stream**
   - Dahua
   - Everfocus
   - Forenix
   - Samsung[1]
   - Sunell
   - UDP

Enhancement

1. Enhance POS search mechanism.
   - ■ Test Summary
     - ✓ We recommend "searching by date", however, if the size of each transaction data is under 1KB[2], user can search 3-day's data at a time.
     - ✓ "Searching by date and playing" works properly under the conditions of "recording 33000 transactions per day, accumulating 3 million in three months and **the average size of each transaction data is under 3KB**"
   - ■ Known Issue
     - ✓ The search engine doesn't work sometimes, if users encounter this issue, please try to search again.
2. Enhance the audio playing mechanism that audio is playing properly even under the circumstances of relative poor network.

Bug Fixed

1. Fixed Install Wizard's bug that there is no server searched sometimes.
2. eSATA LED on front panel should be on as well while external device (i.e. DAS) connected with first eSATA port.
3. Fixed the issue that motion detection function doesn't work on Sony 3rd and 4th generation cameras[3].
4. Fixed the issue that camera parameter of Panasonic i-pro series cameras "may" be reset to default as camera reconnects after camera disconnected a while and NVR was trying to

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[1] SNB-1000, SNB-5000, SND-1010, SND-5080/F, SNO-5080R, SNP-3120/V/VH, SNP-3430H, SNP-5200, SNP-5200H, SNV-5080, SNV-5080R, SPE-100
[2] 1KB is approx. 1000 characters
[3] SNC-CM120, SNC-CS20, SNC-CS50, SNC-DF50, SNC-DF80, SNC-DF85, SNC-DM110, SNC-DM160, SNC-DS10, SNC-DS60, SNC-RX530, SNC-RX550, SNC-RX570, SNC-RZ50

reconnect it.
5. Fixed the parameter settings of Panasonic WV-SP102 and WV-SP105.
6. Fixed the issue that bit rate of Panasonic DG-SF334 cannot be modified.
7. Fixed the issue that system doesn't detect Eneo camera motion right as motion is triggering.
8. Vivotek IP71XX series cameras are compatible with iViewer.
9. Upgrade camera FW to XNET.A1-1.1.11.0706 to fix IVP4030VR/IDP4030VR main stream disconnection issue as querying dual stream.

Release Version 1.1.0 (2011/10)

Modules

Item			Version
FW	NVR	NE-2020	01.01.0002.0054
		NE-2040	01.01.0004.0054
		NE-4080	01.01.0008.0054
		NE-4160	01.01.0016.0054
	Camera Package		01.01.0000.0054
Application	Install Wizard		1.0.0.20
	Remote Live Viewer		2.7.1.3
	Playback System		2.7.1.3
	Backup System		2.7.1.3
	Verification Tool		2.7.1.3
	Offline License Tool		1.0.1.47
Document	User manual		1.0.0
	QSG		1.0.0

NVRmini 2 NE-4080 and NE-4160 release!

New Features
1. **Installation Wizard**
    Support activate IP license to have more camera capacity
2. **Dual stream**
    CNB
    Grundig
    Pelco

Enhancement
1. Add "Auto power-off notification" to log the system is turned off to protect the unit from damage when it's overheated.
2. Enlarge the period of keeping video from 30 days to 365 days.
3. Second stream of some cameras[1] is only available under certain circumstances, such as motion is disabled or total bitrate is low. Which implies NVR can receive second streaming from camera if the configuration is within restrictions. If it's not, NVR chooses a workaround to get live video to support the dual stream features.

Bug Fixed
1. Fixed the multi-language bug when switching NEXT and BACK in Install Wizard.
2. Fixed the issue that DHCP function doesn't work in express mode sometimes.
3. Fixed the bug that it always displays channel 1 as adding searched video server and choosing other channels.
4. Fixed Fine MD-D1200 bug that the status of DI and DO is interrupted by each other.
5. Parameters of some IQeye cameras[2] can be saved successfully.
6. CMS can trigger output device of NVRmini 2 properly.
7. Fixed the bug that Arecont dual stream is likely disconnected in poor network environments.
8. Fixed the bug that dual stream function of Brickcom, Fine and NetworkCamera cameras doesn't work with mobile client releasing in April.

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[1] Such as Basler, Brickcom, Panasonic and Sony. Please consult with camera vendors for details
[2] The following IQeye models are with this bug in previous version: IQ040S, IQ041S, IQ042S, IQ540S, IQ541S, IQ542S, IQD30S, IQD31S, IQD40S, IQD41S, IQD42S

9. Motion detection of Sony CH/DH series cameras work with camera FW v1.30 and above.
10. Fixed the bug that connecting MJPEG dual stream of SANTEC cameras[3] likely leads to camera malfunction.
11. Fixed the bug that system becomes abnormal if Zavio cameras which enable motion detection connect and disconnect frequently.
12. The I/O status of server and liveviewer is synchronized without re-logging in.
13. Non-English words can be displayed correctly on mobile client.

Visit NUUO website for full supporting list:

http://www.nuuo.com/product.php?id=13&sub=4

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[3] SANTEC 1.3 megapixel and D1 cameras

Release Version 1.0.0 (2011/7)

Modules

Item			Version
FW	NVR	NE-2020	01.00.0002.0047
		NE-2040	01.00.0004.0047
	Camera Package		01.00.0000.0047
Application	Installation Wizard		1.0.0.12
	Remote Liveviewer		2.6.1.4
	Playback System		2.6.1.4
	Backup System		2.6.1.4
	Verification Tool		2.6.1.4
	Offline Tool		1.0.1.37
Document	User manual		1.0.0
	QSG		1.0.0

Improvement in NVRmini 2

NVRmini 2 is the next generation of NVRmini, and there are some different hardware and software designs. Take two main features for example.
1. Total throughput of 2bay devices doubles from 20Mbps to 40Mbps
2. NVRmini 2 offers camera package; with mechanism implementation, we can deliver new camera support more quickly and frequently to fulfill more requests

Known Issue (Bug fixed in 1.1.0)

1. Parameters of some IQeye cameras[4] can't be saved successfully.
2. CMS cannot trigger output device of NVRmini 2 properly.
3. Arecont dual stream is likely disconnected in poor network environments.
4. Dual stream function of Brickcom, Fine and NetworkCamera cameras doesn't work with mobile client releasing in April.
5. Motion detection of Sony CH/DH series cameras doesn't work with camera FW v1.30 and above.
6. Connecting MJPEG dual stream of SANTEC cameras[5] likely leads to camera malfunction.
7. System becomes abnormal if Zavio cameras which enable motion detection connect and disconnect frequently.
8. The I/O status of server and liveviewer may not be synchronized without re-logging in.
9. Non-English words display in scratch on mobile client.

Potential Risk

The following cameras are supported by design, which implies that they may contain potential error; if you encounter some problems, please contact our Support Team: service@nuuo.com.

Camera Package
Potential Risk.xls

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[4] The following IQeye models are with this bug in previous version: IQ040S, IQ041S, IQ042S, IQ540S, IQ541S, IQ542S, IQD30S, IQD31S, IQD40S, IQD41S, IQD42S
[5] SANTEC 1.3 megapixel and D1 cameras

Release Version 1.0.0 (2011/7)

Modules

Item			Version
FW	NVR	NE-2020	01.00.0002.0047
		NE-2040	01.00.0004.0047
	Camera Package		01.00.0000.0047
Application	Installation Wizard		1.0.0.12
	Remote Liveviewer		2.6.1.4
	Playback System		2.6.1.4
	Backup System		2.6.1.4
	Verification Tool		2.6.1.4
	Offline Tool		1.0.1.37
Document	User manual		1.0.0
	QSG		1.0.0

Improvement in NVRmini 2

NVRmini 2 is the next generation of NVRmini, and there are some different hardware and software designs. Take two main features for example.
1. Total throughput of 2bay devices doubles from 20Mbps to 40Mbps
2. NVRmini 2 offers camera package; with mechanism implementation, we can deliver new camera support more quickly and frequently to fulfill more requests

Known Issue (Bug fixed in 1.1.0)

1. Parameters of some IQeye cameras[1] can't be saved successfully.
2. CMS cannot trigger output device of NVRmini 2 properly.
3. Arecont dual stream is likely disconnected in poor network environments.
4. Dual stream function of Brickcom, Fine and NetworkCamera cameras doesn't work with mobile client releasing in April.
5. Motion detection of Sony CH/DH series cameras doesn't work with camera FW v1.30 and above.
6. Connecting MJPEG dual stream of SANTEC cameras[2] likely leads to camera malfunction.
7. System becomes abnormal if Zavio cameras which enable motion detection connect and disconnect frequently.
8. The I/O status of server and liveviewer may not be synchronized without re-logging in.
9. Non-English words display in scratch on mobile client.

Potential Risk

The following cameras are supported by design, which implies that they may contain potential error; if you encounter some problems, please contact our Support Team: service@nuuo.com.

Camera Package
Potential Risk.xls

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[1] The following IQeye models are with this bug in previous version: IQ040S, IQ041S, IQ042S, IQ540S, IQ541S, IQ542S, IQD30S, IQD31S, IQD40S, IQD41S, IQD42S

[2] SANTEC 1.3 megapixel and D1 cameras

Release Version 3.6.2 (2017/12)

Modules

Item			Version
FW	NVR	NE-2020	03.06.0002.0006
		NE-2040	
		NE-4080	
		NE-4160	
	Camera Package		DP v5.13.0
Application	Install Wizard		6.1.705.17
	Remote Live Viewer		6.1.705.17
	Playback System		6.1.705.17
	Backup System		6.1.705.17
	Verification Tool		6.1.705.17
	Offline License Tool		6.1.705.17
Document	Local User manual		3.1
	Remote User manual		3.1
	QSG		3.1

Enhancement

1. Upgrade PHP to 5.6.32

2. Update ActiveX to 6.1.705.17

3. Enhance HDD S.M.A.R.T information

4. Enhance embedded motion log for troubleshooting

5. (FAE #3928) Enhance volume recycle mechanism

6. (FAE #3912) Support to send e-mail by sever with non-English server name

7. Enhance backup configurations

8. (FAE#4056) Upgrade lighttpd from 1.4.43 to 1.4.48

Bugs Fixed

1. Fix FAE#3920, 3953 :Unable to playback recordings of Vivotek cameras VS3100 and IP3132 in Remote Playback.

2. Fix FAE#4026 : Auto backup to ftp failed

Release Version 3.5.0 (2017/08)

Modules

Item		Version
FW	NVR	03.05.0000.0016
	Camera Package	DP v5.9.0
Application	Install Wizard	6.1.705.15
	Remote Live Viewer	6.1.705.15
	Playback System	6.1.705.15
	Backup System	6.1.705.15
	Verification Tool	6.1.705.15
	Offline License Tool	6.1.705.15
Document	Local User manual	3.1
	Remote User manual	3.1
	QSG	3.1

New Features

1. Add diagnostic Tool
2. Update Activex to 6.1.705.15

Bugs Fixed

Known Issues

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Release Version 3.4.0 (2017/05)

Modules

Item		Version
FW	NVR	03.04.0000.0019
	Camera Package	DP v5.7.0
Application	Install Wizard	6.1.705.13
	Remote Live Viewer	6.1.705.13
	Playback System	6.1.705.13
	Backup System	6.1.705.13
	Verification Tool	6.1.705.13
	Offline License Tool	6.1.705.13
Document	Local User manual	3.1
	Remote User manual	3.1
	QSG	3.1

New Features

1. Enhance the strategy of setting backup

2. Add "Inactive notification" of P2P service

3. Add "Always connected" for improving APP experience

4. Support Axis Generic with real model name

5. Support Java web for Firefox on RedHat & Ubuntu

Bugs Fixed

Known Issues

Release Version 3.3.0 (2017/2)

Modules

Item		Version
FW	NVR	03.03.0000.0009
	Camera Package	DP v5.4.0
Application	Install Wizard	6.1.705.13
	Remote Live Viewer	6.1.705.13
	Playback System	6.1.705.13
	Backup System	6.1.705.13
	Verification Tool	6.1.705.13
	Offline License Tool	6.1.705.13
Document	User manual	3.1.0
	QSG	3.1.0

New Features

1. Pack latest Device Pack v 5.4.0

Bugs Fixed

N/A

Known Issues

Release Version 3.2.0 (2016/12)

Modules

Item		Version
FW	NVR	03.02.0000.0014
	Camera Package	DP v5.2.0
Application	Install Wizard	6.1.705.13
	Remote Live Viewer	6.1.705.13
	Playback System	6.1.705.13
	Backup System	6.1.705.13
	Verification Tool	6.1.705.13
	Offline License Tool	6.1.705.13
Document	User manual	3.1.0
	QSG	3.1.0

New Features

1. Update Activex to 6.1.705.13
2. Pack latest Device Pack v 5.2.0
3. Upgrade Dropbear SSH to v2016.74
4. Upgrade Lighttpd to 1.4.42
5. Upgrade SSL to 0.9.8zh

Bugs Fixed

1. Fix FTP Username and Password length limitation to 32
2. Fix Disk S.M.A.R.T status
3. Fix Playback icon for event log
4. Fix Reset Button Failure

Known Issues

Release Version 3.1.0 (2016/09)

Modules

Item		Version
FW	NVR	03.01.0000.0073
	Camera Package	DP v4.16
Application	Install Wizard	6.1.705.9
	Remote Live Viewer	6.1.705.9
	Playback System	6.1.705.9
	Backup System	N/A
	Verification Tool	N/A
	Offline License Tool	1.0
Document	User manual	3.1.0
	QSG	3.1.0

New Features

1. Update Activex to 6.1.705.9

Bugs Fixed

1. Fix Linux vulnerability issues

Known Issues

Release Version 3.0.0 (2016/03/01)

Modules

Item		Version
FW	NVR	03.00.0000.0056
	Camera Package	DP v4.9
Application	Install Wizard	3.0.0
	Remote Live Viewer	3.0.0
	Playback System	3.0.0
	Backup System	3.0.0
	Verification Tool	3.0.0
	Offline License Tool	3.0.0
Document	User manual	3.0.0
	QSG	3.0.0

New Features
1. 2nd stream record-dual record.
2. Support H.265
   Supported camera only
3. Hungarian Support

Bugs Fixed
1. Emergency record will start when stop at first time login and switch to playback.
2. WAN file backup timeout when transferring large files is fixed.
3. WAN playback performance is enhanced by adding new NUPP command "NEXTGOP".
4. Fix remote playback can't use "select folder" to show POS issue.
5. Drag and Drop will sometime malfunction during high CPU usage is fixed.

Known Issues
1. User needs to use client pack 6.1.705.5 for new features to avoid failure.

Release Version 2.2.1 (2015/02/11)

Modules

Item		Version
FW	NVR	02.02.0001.0004
	Camera Package	DP v3.11
Application	Install Wizard	2.2.1
	Remote Live Viewer	2.2.1
	Playback System	2.2.1
	Backup System	2.2.1
	Verification Tool	2.2.1
	Offline License Tool	2.2.1
Document	User manual	2.2.1
	QSG	2.2.1

New Features
1. Support new event: recurrent event

Bugs Fixed
1. Fixed server failed to send out email when DI triggered.
2. Fixed 2-way audio failed to work on CMS under some condition.
3. Fixed that color of video is distorted when using fisheye dewarp.
4. Fix the bug that unable to support touch screen[i] under specific circumstances.
5. Fix video hang when using specific camera model.

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[i] Please refer to compatible touch screen list.

Release Version 2.0.0 (2014/03/11)

Modules

Item		Version
FW	NVR	02.00.0000.0097
	Camera Package	DP v3.1 03. 01.0000.0032
Application	Install Wizard	2.0.0
	Remote Live Viewer	2.0.0
	Playback System	2.0.0
	Backup System	2.0.0
	Verification Tool	2.0.0
	Offline License Tool	2.0.0
Document	User manual	2.0.0
	QSG	2.0.0

New Features

1. Support camera multi-stream setting for saving remote bandwidth[1].
2. Support camera two-way audio[2](L Internet Explore only).
3. New action supported[3]:
   - Camera snapshot to FTP.
   - E-mail with snapshot.
   - Send to CMS with snapshot.
4. Execute HDD S.M.A.R.T self-test on server. Monitor hard dives health easily.
5. Support A08 I/O Box.
6. Enhance event log: click and play and log viewer(Internet Explore only)
7. Compatible with Windows Chrome and Mac safari v6.1 and v7.0.

Known Issue and Limitation

1. Some functions may not work properly on Internet Explorer 11. Internet Explorer 8, 9, 10, Windows Chrome or Mac Safari v6.1 and v7.0 is recommended. IE11 will be officially supported in the coming version.
2. V1.7.6 is the minimum version for upgrade to v2.0. Please upgrade to v1.7.6 before upgrade to v2.0.

Please find DP 3.1 release note for camera integration, bug fixed and known issue.

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[1] DP 3.1 and above
[2] DP 3.1 and above
[3] DP 3.1 and above

Release Version 1.7.6 (2014/01/07)

Modules

Item		Version
FW	NVR	01.07.0006.0002
	Camera Package	DP v2.19 02.19.0000.0028
Application	Install Wizard	1.7.5
	Remote Live Viewer	1.7.5
	Playback System	1.7.5
	Backup System	1.7.5
	Verification Tool	1.7.5
	Offline License Tool	1.7.5
Document	User manual	1.7.5
	QSG	1.6.1

Bug Fixed

1. Fixed the issue that upgrade process may fail when the storage is not enough in flash.

Known Issue

1. Not support log viewer in this version. It will be fixed in v2.0.

Please find DP 2.19 release note for camera integration, bug fixed and known issue.

Release Version 1.7.5 (2013/11/19)

Modules

Item		Version
FW	NVR	01.07.0005.0007
	Camera Package	DP v2.18 02.18.0000.0025
Application	Install Wizard	1.7.5
	Remote Live Viewer	1.7.5
	Playback System	1.7.5
	Backup System	1.7.5
	Verification Tool	1.7.5
	Offline License Tool	1.7.5
Document	User manual	1.7.5
	QSG	1.6.1

Enhancement

1. Improve the backup mechanism to be able to backup videos via WAN with stable 2M bandwidth.[1]

Bug Fixed

2. Fixed the issue that recording mode will be changed from motion recording to always recording under certain conditions.
3. Fixed the issue that no video images show when clicking to playback as receiving push notification on mobile.
4. Enhance the file system to improve recording stability.
5. Fixed the communication issue between CMS and NVR to be able to view the videos of the associated camera of digital input.
6. Support to convert words to unicode in Install Wizard to be able to display some special characters (e.g. ß) on setting page (Internet Explorer).

Please find DP 2.18 release note for camera integration, bug fixed and known issue.

Release Version 1.7.2 (2013/9/6)

Modules

Item		Version
FW	NVR	01.07.0002.0006
	Camera Package	DP v2.16 02.16.0000.0026
Application	Install Wizard	1.7.0
	Remote Live Viewer	1.7.0
	Playback System	1.7.0
	Backup System	1.7.0
	Verification Tool	1.7.0
	Offline License Tool	1.7.0
Document	User manual	1.7.0

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[1] The bit rate of the camera to backup is 4Mbps. If the bit rate is higher, the more stable bandwidth is needed.

	QSG	1.6.1

Bug Fixed

1. Fixed the issue that the DNS settings can't be applied to system, which implies that the following functions may not work properly.
   - Send out an email as a responding action for events
   - Use DDNS service
   - Activate license online
   - Receive auto upgrade notification

[Impact coverage & action item]

Device	Conditions	Action Items
NE-2020/NE-2040	The devices with FW v1.7.0/v1.7.1 users attempt to change its DNS settings	Upgrade to v1.7.2
NE-4080/NE-4160	The "new" devices with FW v1.7.0/v1.7.1 users choose DHCP as its IP instead of static IP.	1. Manually configure IP on Network Settings page or 2. Upgrade to v1.7.2

[No impact] No matter it's 2bay or 4bay device, as long as you don't change its DNS settings, the system works fine even upgrading to v1.7.0 or v1.7.1.

Please find DP 2.16 release note for camera integration, bug fixed and known issue.

Release Version 1.7.1 (2013/8/12)

Modules

Item		Version
FW	NVR	01.07.0001.0001
	Camera Package	DP v2.15 02.15.0000.0033
Application	Install Wizard	1.7.0
	Remote Live Viewer	1.7.0
	Playback System	1.7.0
	Backup System	1.7.0
	Verification Tool	1.7.0
	Offline License Tool	1.7.0
Document	User manual	1.7.0
	QSG	1.6.1

Bug Fixed

1. Fixed the issue that recorded videos may become black sometimes after <u>watching live videos on mobile client</u> or <u>switching to multi stream to view on web/remote live viewer</u>.

   *Upgrading FW cannot repair those videos which have became black already, but we have a solution to fix the videos without any problem. Please submit the request on http://www.nuuo.com/eHelpdesk.php .

Please find DP 2.15 release note for camera integration, bug fixed and known issue.

Release Version 1.7.0 (2013/7/3)

Modules

Item		Version
FW	NVR	01.07.0000.0118
	Camera Package	DP v2.14 02.14.0000.0029
Application	Install Wizard	1.7.0
	Remote Live Viewer	1.7.0
	Playback System	1.7.0
	Backup System	1.7.0
	Verification Tool	1.7.0
	Offline License Tool	1.7.0
Document	User manual	1.7.0
	QSG	1.6.1

New Features

1. Compatible with Windows 8 32/64-bit.
2. Compatible with IE 10 (32-bit).
3. Generic fisheye dewarp function to support 360° fisheye camera.[2]
4. New skin 1366x768 (TV standard).
5. License is transferrable.
6. Support to associate a camera with input pin, which will be the communication media for server and client. (e.g. when an input was triggered and pushed a notification to mobile, users can playback the videos of its associated camera.)
7. New language: Croatian, Thai.
   - The total language support is up to 22, including English, Croatian, Czech, Deutsch, Finnish, French, Hebrew, Hungarian, Italian, Japanese, Korean, Dutch, Polish, Portuguese (Brazil) , Russian, Serbian, Simplified Chinese, Traditional Chinese, Spanish, Swedish, Thai, and Turkish.

Enhancement

1. Enhance the speed of file system check, and add a mechanism to execute file system check at boot time.
2. Internet interface selection to choose which LAN is connected to the internet.[3]
3. Modify RAID Management page to separate embedded disk(s) and external disk (DAS) from two groups, which implies there is no way to create a single volume with both embedded and external disks inside.[4]
4. Dual stream default enabled.

Bug Fixed

7. System won't disconnect all cameras and make web page inaccessible when the number of recording

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[2] Axis P5544 and Vivotek CC8130 are excluded.

[3] This is the enhancement for 4bay device. There is no longer to fix the Internet access to LAN 1 for sending mails, activating license online, receiving auto upgrade notification, etc.

[4] It's still functional for the current NVR which has created a single volume with both embedded and external disks after upgrading. However, if users delete this volume, there is no way to create the same volume back. Please do the backup before upgrading

camera is large and recording bit rate is low (e.g. 16ch video with 1~2Mbps).
8. Enlarge the maximum size of single volume to 16TB.
9. Fixed the issue that the configurations of recording schedule and user account weren't applied to system after restoring from abnormal shutdown.
10. Optimize the audio quality of cameras with GSM-AMR codec.

Known Issues

1. POS transaction can't be exported by Remote Playback. Please do the export on web page. This issue will be fixed in the next version.

Please find DP 2.14 release note for camera integration, bug fixed and known issue.

Release Version 1.6.4 (2013/5/24)

Modules

Item			Version
FW	NVR	NE-2020	01.06.0002.0116
		NE-2040	01.06.0004.0116
		NE-4080	01.06.0008.0116
		NE-4160	01.06.0016.0116
	Camera Package		DP v2.12 02.12.0000.0034
Application	Install Wizard		1.6.2
	Remote Live Viewer		1.6.2
	Playback System		1.6.2
	Backup System		1.6.2
	Verification Tool		1.6.2
	Offline License Tool		1.6.2
Document	User manual		1.6.4
	QSG		1.6.1

Enhancement

1. Add an interfaces to configure the timing of doing automatically recycle. The **recommended** percentage is <u>recycling when the storage space less than 10%</u>.

Bug Fixed

1. System won't hang up even the efficiency of disk goes down under high loading.

Please find DP 2.12 release note for camera integration, bug fixed and known issue.

Release Version 1.6.2 (2013/4/1)

Modules

Item			Version
FW	NVR	NE-2020	01.06.0002.0113
		NE-2040	01.06.0004.0113
		NE-4080	01.06.0008.0113

		NE-4160	01.06.0016.0113
	Camera Package		DP v2.10 02.10.0000.0015
Application	Install Wizard		1.6.2
	Remote Live Viewer		1.6.2
	Playback System		1.6.2
	Backup System		1.6.2
	Verification Tool		1.6.2
	Offline License Tool		1.6.2
Document	User manual		1.6.1
	QSG		1.6.1

Enhancement
2. New audio codec PCM 11025Hz support for D-Link cameras.

Bug Fixed
2. If preset points of a camera are named in Japanese, IE browser may crash as trying to connect this camera by double-clicking on it from the camera list in Live View. The default preset name for Panasonic BB/BL series is written in Japanese.

Please find DP 2.10 release note for camera integration, bug fixed and known issue.

Release Version 1.6.1 (2012/11/21)

Modules

Item			Version
FW	NVR	NE-2020	01.06.0002.0109
		NE-2040	01.06.0004.0109
		NE-4080	01.06.0008.0109
		NE-4160	01.06.0016.0109
	Camera Package		DP v2.7 02.07.0000.0013
Application	Install Wizard		1.6.1
	Remote Live Viewer		1.6.1
	Playback System		1.6.1
	Backup System		1.6.1
	Verification Tool		1.6.1
	Offline License Tool		1.6.1
Document	User manual		1.6.1
	QSG		1.6.1

New Features
1. Show customized input pin name on OSD as input trigger.
2. New language: Simplified Chinese
   - The total language support is up to 19, including English, Japanese, Traditional Chinese, Spanish, Deutsch, Finnish, French, Hungarian, Italian, Russian, Czech, Korean, Polish, Dutch, Serbian, Swedish, Portuguese (Brazil), Turkish, and Hebrew.

Enhancement

1. Time-overlapped is no longer an issue on video playing and POS text display.
2. Improve live view connection queue mechanism

Bug Fixed
1. Support Unicode preset name to fix the issue that users cannot save the preset name successfully.
2. The stream profile should be what users modified when re-executing Remote Live Viewer.

Known Issues
1. To make sure the future function expansion and upgrading quality, from version v1.6.1, users are only allowed to update system as RAID volume created. What's more, there must be at least 300MB free space of this volume.

Please find DP 2.7 release note for camera integration, bug fixed and known issue.

Release Version 1.6.0 (2012/9/20)

Modules

Item			Version
FW	NVR	NE-2020	01.06.0002.0105
		NE-2040	01.06.0004.0105
		NE-4080	01.06.0008.0105
		NE-4160	01.06.0016.0105
	Camera Package		DP v2.4.2 02.04.0000.0010
Application	Install Wizard		1.0.0.34
	Remote Live Viewer		4.0.1.7
	Playback System		4.0.1.7
	Backup System		4.0.1.7
	Verification Tool		4.0.0.0
	Offline License Tool		2.0.0.7
Document	User manual		1.6.0
	QSG		1.6.0

New Features
1. Push notification support on NUUO mobile client[1] to receive instant notification as an event occurs.
2. Completely-compatible remote application with Mainconsole family.
   - Wide screen 16:9 / 16:10 support
   - New action to pop up E-map on Live View as an event triggered
   - Metadata (POS) search in Live View
   - Save/load configuration
3. New language: Turkish, Hebrew[2].
   - The total language support is up to 19, including English, Japanese, Traditional Chinese, Spanish, Deutsch, Finnish, French, Hungarian, Italian, Russian, Czech, Korean, Polish, Dutch, Serbian, Swedish, Portuguese (Brazil), Turkish, and Hebrew.

---

[1] Only iViewer v2.4 on iPhone/iPad supports push notification at this moment.
[2] The current GUI design is not Right-to-Left (RTL) in Hebrew.

Enhancement

1. Optimize license mechanism and error code.
2. Add CPU loading data in System Information page.
3. Enhance function/message expression.
4. Specify recording status on the Camera Status page, including No recording, Always Record (Recording / Stopped), Record by Schedule (Recording / Stopped).

Known Issues

1. We do some modifications to make remote application compatible, so there are few limitation:
   - Since E-map popup function is moved from Live View to a selection of actions in v1.6.0, users can't expect to have E-map popup on new AP as connecting the NVR server which FW version is lower than v1.6.0.
   - Cannot execute backup in Playback System v4.0.1 as connecting NVR server which FW version is lower than v1.6.0. Please upgrade the server or execute the old version AP.
   - Event logs are not shown on date/time search dialog if this period of video isn't backed up with Playback System. Since web playback doesn't support backup with Playback System, the issue must exist. We will improve this part in coming version.
2. Time-overlapped issue isn't solved on POS yet. The video time is correct, but the POS data attached with time-overlapped videos might be wrong. For example, selecting the first 01:00 video to play, but the POS transaction showing on video may belong to the second 01:00 video. We will fix it in v1.6.1.

Please find DP 2.4.2 release note for camera integration, bug fixed and known issue.

Release Version 1.5.2 (2012/7/5)

Modules

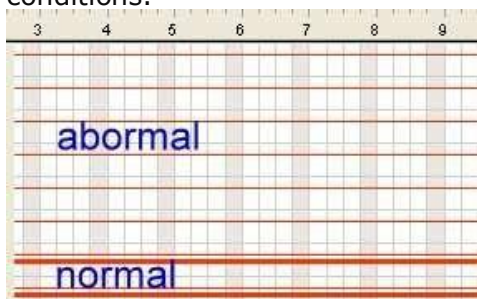| Item			Version
FW	NVR	NE-2020	01.05.0002.0096
		NE-2040	01.05.0004.0096
		NE-4080	01.05.0008.0096
		NE-4160	01.05.0016.0096
	Camera Package		DP v2.1 02.01.0000.0008

Bug Fixed

1. Fixed the issue that users are unable to playback the video by selecting recording bar which is with THIN red line but without BOLD red line in date/time search dialog based under certain conditions.

- Conditions: The issue occurs when users are trying to click on the schedule bar of the video which is recording "now" and not formed as a single clip yet. (The video clip is 5 minutes) System may detect error, and the next day, users cannot playback properly.
- Workaround: The workaround is selecting video period by entering the time section manually.
- Solution: Even upgrading to v1.5.2, entering time manually is still the only way for tracing back the recording period without bold line.

Release Version 1.5.1 (2012/5/25)

Modules

Item			Version
FW	NVR	NE-2020	01.05.0002.0095
		NE-2040	01.05.0004.0095
		NE-4080	01.05.0008.0095
		NE-4160	01.05.0016.0095
	Camera Package		DP v2.1 02.01.0000.0008

Bug Fixed

1. Fixed the issue that system might keep restarting as NTP enabled.
2. Enhance daylight saving behavior. If the NVR is with daylight saving enabled, please modify the daylight saving recurrence period after upgrading.

New Camera Supported

Refer to DP v2.1.

Release Version 1.5.0 (2012/4/25)

Modules

Item			Version
FW	NVR	NE-2020	01.05.0002.0094
		NE-2040	01.05.0004.0094
		NE-4080	01.05.0008.0094
		NE-4160	01.05.0016.0094
	Camera Package		DP v2.0.0 02.00.0000.0006
Application	Install Wizard		1.0.0.30
	Remote Live Viewer		2.10.0.6
	Playback System		2.10.0.6
	Backup System		2.10.0.6
	Verification Tool		2.10.0.6
	Offline License Tool		1.0.1.47
Document	User manual		1.5.0
	QSG		1.3.0 (no update)

New Features
1. Support NTP server synchronization.
2. Implement with Device Pack v2.0.0 – users are able to upgrade single NVRmini 2 DP[1] in the future for quick camera support update.

Enhancement
1. Daylight saving time enhancement on wizard and web setting.
2. Recording server, Playback AP and Backup AP enhancement, which allows choosing which time-overlapped videos to play and backup. Please notice that it works when time-overlapped videos are recorded after server upgrade, which implies that you can't track back time-overlapped videos recorded previously even you use Playback/Backup AP with v1.5.0.

Bug Fixed
1. Fixed the issue that motion detection of Vivotek cameras with new camera FW doesn't work in the conditions of selecting more than 3 motion detect areas.
2. Enable camera watermark automatically to support Vivotek FE8171V dewarp function.[2]

Known Issues
1. Time-overlapped issue isn't solved on POS yet. The video time is correct, but the POS data attached with time-overlapped videos might be wrong. For example, selecting the first 01:00 video to play, but the POS transaction showing on video may belong to the second 01:00 video. We may fix it in coming version.

Please find DP 2.0.0 release note for camera integration, bug fixed and known issue.

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[1] Please be aware that the spec of NVRmini 2 DP and the spec of IP+ DP are almost identical, but the packs are separated.
[2] Vivotek FE8171V dewarp feature only works when watermark function is enabled, however, it defaults disable. Even worse, there is no interface on camera web to change settings.

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Release Version 1.4.0 (2012/3/6)

Modules

Item			Version
FW	NVR	NE-2020	01.04.0002.0084
		NE-2040	01.04.0004.0084
		NE-4080	01.04.0008.0084
		NE-4160	01.04.0016.0084
	Camera Package		01.03.0000.0084
Application	Install Wizard		1.0.0.21
	Remote Live Viewer		2.9.1.9
	Playback System		2.9.1.9
	Backup System		2.9.1.9
	Verification Tool		2.9.1.9
	Offline License Tool		1.0.1.47
Document	User manual		1.4.0
	QSG		1.3.0

New Features

1. Support Vivotek fisheye camera FE8171V de-warp function.
   - Original
   - Rectilinear mode
   - Full-view panorama mode
   - Dual-view panorama mode
2. Support ONVIF search for cameras implemented with ONVIF protocol, including Sunell, Everfocus, Probe, and Digital Watch Dog.[1]
3. Add continuous zoom function on Panasonic DG-SC385 and WV-SC385.

Enhancement

1. Improve the upgrade mechanism; users must upgrade to this version before doing further upgrade. If users skip v1.4.0, and try to upgrade v1.5.0 directly, UI may show error message: Upload fail. Current NVR version cannot smaller than 01.04.XXXX.0084.

Bug Fixed

1. Synchronize the zoom in/out scale of Panasonic DG-SC385 and WV-SC385 with camera web.
2. Fixed 2nd~4th channel connection issue on Arecont 4-ch models.
3. Fixed the issue that Axis 210A may be disconnected after long time connection.

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[1] Due to the limitation of ONVIF protocol, ONVIF search works only as cameras keep default administrator name and password.

Release Version 1.3.2 (2011/1/9)

Modules

Item			Version
FW	NVR	NE-2020	01.03.0002.0075
		NE-2040	01.03.0004.0075
		NE-4080	01.03.0008.0075
		NE-4160	01.03.0016.0075
	Camera Package		01.03.0000.0075

New Features

1. Add continuous PTZ function on Vivotek VS8102. (1.3.1)

Bug Fixed

1. Fixed the issue that the second to forth channel of Fine WB-H814 cannot be connected. (1.3.1)
2. Fixed the wrong model name detection issue on Fine WB-H814.[1] (1.3.1)
3. DDNS configuration can be updated successfully. (1.3.1)
4. Fixed the issue that frame rate and bit rate data on camera status page go wrong as users enable dual stream or start preset point patrol. (1.3.1)
5. Add output duration title on the setting page. (1.3.1)

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[1] We cannot assure the detection result if the camera returns slowly due to poor network connection.

Release Version 1.3.0 (2011/12/5)

Modules

Item			Version
FW	NVR	NE-2020	01.03.0002.0065
		NE-2040	01.03.0004.0065
		NE-4080	01.03.0008.0065
		NE-4160	01.03.0016.0065
	Camera Package		01.03.0000.0065
Application	Install Wizard		1.0.0.21
	Remote Live Viewer		2.8.1.7
	Playback System		2.8.1.7
	Backup System		2.8.1.7
	Verification Tool		2.8.1.7
	Offline License Tool		1.0.1.47
Document	User manual		1.3.0
	QSG		1.3.0

New Features

1. Output duration: control the duration of output as it's triggered.
2. **Dual stream**
   - Dahua
   - Everfocus
   - Forenix
   - Samsung[2]
   - Sunell
   - UDP

Enhancement

1. Enhance POS search mechanism.
   - ■ Test Summary
     - ✓ We recommend "searching by date", however, if the size of each transaction data is under 1KB[3], user can search 3-day's data at a time.
     - ✓ "Searching by date and playing" works properly under the conditions of "recording 33000 transactions per day, accumulating 3 million in three months and **the average size of each transaction data is under 3KB**"
   - ■ Known Issue
     - ✓ The search engine doesn't work sometimes, if users encounter this issue, please try to search again.
2. Enhance the audio playing mechanism that audio is playing properly even under the circumstances of relative poor network.

Bug Fixed

1. Fixed Install Wizard's bug that there is no server searched sometimes.
2. eSATA LED on front panel should be on as well while external device (i.e. DAS) connected with first eSATA port.
3. Fixed the issue that motion detection function doesn't work on Sony 3rd and 4th generation cameras[4].

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[2] SNB-1000, SNB-5000, SND-1010, SND-5080/F, SNO-5080R, SNP-3120/V/VH, SNP-3430H, SNP-5200, SNP-5200H, SNV-5080, SNV-5080R, SPE-100

[3] 1KB is approx. 1000 characters

[4] SNC-CM120, SNC-CS20, SNC-CS50, SNC-DF50, SNC-DF80, SNC-DF85, SNC-DM110, SNC-DM160, SNC-DS10, SNC-DS60, SNC-RX530, SNC-RX550, SNC-RX570, SNC-RZ50

4. Fixed the issue that camera parameter of Panasonic i-pro series cameras "may" be reset to default as camera reconnects after camera disconnected a while and NVR was trying to reconnect it.
5. Fixed the parameter settings of Panasonic WV-SP102 and WV-SP105.
6. Fixed the issue that bit rate of Panasonic DG-SF334 cannot be modified.
7. Fixed the issue that system doesn't detect Eneo camera motion right as motion is triggering.
8. Vivotek IP71XX series cameras are compatible with iViewer.
9. Upgrade camera FW to XNET.A1-1.1.11.0706 to fix IVP4030VR/IDP4030VR main stream disconnection issue as querying dual stream.

Release Version 1.3.0 (2011/12/5)

Modules

Item			Version
FW	NVR	NE-2020	01.03.0002.0065
		NE-2040	01.03.0004.0065
		NE-4080	01.03.0008.0065
		NE-4160	01.03.0016.0065
	Camera Package		01.03.0000.0065
Application	Install Wizard		1.0.0.21
	Remote Live Viewer		2.8.1.7
	Playback System		2.8.1.7
	Backup System		2.8.1.7
	Verification Tool		2.8.1.7
	Offline License Tool		1.0.1.47
Document	User manual		1.3.0
	QSG		1.3.0

New Features

1. Output duration: control the duration of output as it's triggered.
2. **Dual stream**
   Dahua
   Everfocus
   Forenix
   Samsung[1]
   Sunell
   UDP

Enhancement

1. Enhance POS search mechanism.
   - Test Summary
     - ✓ We recommend "searching by date", however, if the size of each transaction data is under 1KB[2], user can search 3-day's data at a time.
     - ✓ "Searching by date and playing" works properly under the conditions of "recording 33000 transactions per day, accumulating 3 million in three months and **the average size of each transaction data is under 3KB**"
   - Known Issue
     - ✓ The search engine doesn't work sometimes, if users encounter this issue, please try to search again.
2. Enhance the audio playing mechanism that audio is playing properly even under the circumstances of relative poor network.

Bug Fixed

1. Fixed Install Wizard's bug that there is no server searched sometimes.
2. eSATA LED on front panel should be on as well while external device (i.e. DAS) connected with first eSATA port.
3. Fixed the issue that motion detection function doesn't work on Sony 3rd and 4th generation cameras[3].
4. Fixed the issue that camera parameter of Panasonic i-pro series cameras "may" be reset to default as camera reconnects after camera disconnected a while and NVR was trying to

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[1] SNB-1000, SNB-5000, SND-1010, SND-5080/F, SNO-5080R, SNP-3120/V/VH, SNP-3430H, SNP-5200, SNP-5200H, SNV-5080, SNV-5080R, SPE-100

[2] 1KB is approx. 1000 characters

[3] SNC-CM120, SNC-CS20, SNC-CS50, SNC-DF50, SNC-DF80, SNC-DF85, SNC-DM110, SNC-DM160, SNC-DS10, SNC-DS60, SNC-RX530, SNC-RX550, SNC-RX570, SNC-RZ50

    reconnect it.
5. Fixed the parameter settings of Panasonic WV-SP102 and WV-SP105.
6. Fixed the issue that bit rate of Panasonic DG-SF334 cannot be modified.
7. Fixed the issue that system doesn't detect Eneo camera motion right as motion is triggering.
8. Vivotek IP71XX series cameras are compatible with iViewer.
9. Upgrade camera FW to XNET.A1-1.1.11.0706 to fix IVP4030VR/IDP4030VR main stream disconnection issue as querying dual stream.

Release Version 1.1.0 (2011/10)

Modules

Item			Version
FW	NVR	NE-2020	01.01.0002.0054
		NE-2040	01.01.0004.0054
		NE-4080	01.01.0008.0054
		NE-4160	01.01.0016.0054
	Camera Package		01.01.0000.0054
Application	Install Wizard		1.0.0.20
	Remote Live Viewer		2.7.1.3
	Playback System		2.7.1.3
	Backup System		2.7.1.3
	Verification Tool		2.7.1.3
	Offline License Tool		1.0.1.47
Document	User manual		1.0.0
	QSG		1.0.0

NVRmini 2 NE-4080 and NE-4160 release!

New Features
1. **Installation Wizard**
   Support activate IP license to have more camera capacity
2. **Dual stream**
   CNB
   Grundig
   Pelco

Enhancement
1. Add "Auto power-off notification" to log the system is turned off to protect the unit from damage when it's overheated.
2. Enlarge the period of keeping video from 30 days to 365 days.
3. Second stream of some cameras[1] is only available under certain circumstances, such as motion is disabled or total bitrate is low. Which implies NVR can receive second streaming from camera if the configuration is within restrictions. If it's not, NVR chooses a workaround to get live video to support the dual stream features.

Bug Fixed
1. Fixed the multi-language bug when switching NEXT and BACK in Install Wizard.
2. Fixed the issue that DHCP function doesn't work in express mode sometimes.
3. Fixed the bug that it always displays channel 1 as adding searched video server and choosing other channels.
4. Fixed Fine MD-D1200 bug that the status of DI and DO is interrupted by each other.
5. Parameters of some IQeye cameras[2] can be saved successfully.
6. CMS can trigger output device of NVRmini 2 properly.
7. Fixed the bug that Arecont dual stream is likely disconnected in poor network environments.
8. Fixed the bug that dual stream function of Brickcom, Fine and NetworkCamera cameras doesn't work with mobile client releasing in April.

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[1] Such as Basler, Brickcom, Panasonic and Sony. Please consult with camera vendors for details
[2] The following IQeye models are with this bug in previous version: IQ040S, IQ041S, IQ042S, IQ540S, IQ541S, IQ542S, IQD30S, IQD31S, IQD40S, IQD41S, IQD42S

9. Motion detection of Sony CH/DH series cameras work with camera FW v1.30 and above.
10. Fixed the bug that connecting MJPEG dual stream of SANTEC cameras[3] likely leads to camera malfunction.
11. Fixed the bug that system becomes abnormal if Zavio cameras which enable motion detection connect and disconnect frequently.
12. The I/O status of server and liveviewer is synchronized without re-logging in.
13. Non-English words can be displayed correctly on mobile client.

Visit NUUO website for full supporting list:

http://www.nuuo.com/product.php?id=13&sub=4

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[3] SANTEC 1.3 megapixel and D1 cameras

Release Version 1.0.0 (2011/7)

Modules

Item			Version
FW	NVR	NE-2020	01.00.0002.0047
		NE-2040	01.00.0004.0047
	Camera Package		01.00.0000.0047
Application	Installation Wizard		1.0.0.12
	Remote Liveviewer		2.6.1.4
	Playback System		2.6.1.4
	Backup System		2.6.1.4
	Verification Tool		2.6.1.4
	Offline Tool		1.0.1.37
Document	User manual		1.0.0
	QSG		1.0.0

Improvement in NVRmini 2

NVRmini 2 is the next generation of NVRmini, and there are some different hardware and software designs. Take two main features for example.
1. Total throughput of 2bay devices doubles from 20Mbps to 40Mbps
2. NVRmini 2 offers camera package; with mechanism implementation, we can deliver new camera support more quickly and frequently to fulfill more requests

Known Issue (Bug fixed in 1.1.0)

1. Parameters of some IQeye cameras[4] can't be saved successfully.
2. CMS cannot trigger output device of NVRmini 2 properly.
3. Arecont dual stream is likely disconnected in poor network environments.
4. Dual stream function of Brickcom, Fine and NetworkCamera cameras doesn't work with mobile client releasing in April.
5. Motion detection of Sony CH/DH series cameras doesn't work with camera FW v1.30 and above.
6. Connecting MJPEG dual stream of SANTEC cameras[5] likely leads to camera malfunction.
7. System becomes abnormal if Zavio cameras which enable motion detection connect and disconnect frequently.
8. The I/O status of server and liveviewer may not be synchronized without re-logging in.
9. Non-English words display in scratch on mobile client.

Potential Risk

The following cameras are supported by design, which implies that they may contain potential error; if you encounter some problems, please contact our Support Team: service@nuuo.com.

Camera Package
Potential Risk.xls

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[4] The following IQeye models are with this bug in previous version: IQ040S, IQ041S, IQ042S, IQ540S, IQ541S, IQ542S, IQD30S, IQD31S, IQD40S, IQD41S, IQD42S
[5] SANTEC 1.3 megapixel and D1 cameras

Release Version 1.0.0 (2011/7)

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