

# NUUO Mainconsole v3.5.20



## Quick Sell Guide

10/19/2011

The Intelligent Surveillance Solution





# 1. What's the NUUO Mainconsole

- A. Mainconsole is a PC based Tribrid DVR system with customer-proven reliability, simple to install and manage, high compatibility for 3rd party integration and a wide range of IP cameras support in more than 94,800 world-wide installations.
- B. With comprehensive technologies Mainconsole provides a series of DVR , NVR , Hybrid and Tribrid DVR product line by video cards and IP+ license combination fulfilling large-scale enterprise level projects as well as for small-and-medium business. The combination as below :

Type	Combination
DVR	Analog or SDI video compression card + Mainconsole software
	Order models : SCB-G3-1004 , SCB-G3-1008 , SCB-G3-3004 , SCB-G3-3008 , SCB-G3-3016 , SCB-6004S , SCB-6008S , SCB-6016S , SCB-7004S , SCB-7008S , SCB-7016S , SCB-7108 , SCB-7116 , SCB-8004HD
Tribrid DVR	Analog & SDI video compression card + IP+ license + Mainconsole software
	Order models : SCB-6004S , SCB-6008S , SCB-6016S , SCB-7004S , SCB-7008S , SCB-7016S , SCB-7108 , SCB-7116 , SCB-8004HD SCB-IP+04 , SCB-IP+08 , SCB-IP+12 , SCB-IP+16 , SCB-IP+25 , SCB-IP+32 , SCB-IP+36 , SCB-IP+64
NVR	IP+ license + Mainconsole software
	Order models : SCB-IP+04 , SCB-IP+08 , SCB-IP+12 , SCB-IP+16 , SCB-IP+25 , SCB-IP+32 , SCB-IP+36 , SCB-IP+64



# 2. About NUUO video compression card

- A. Hardware compression card

NUUO DVR Card	SCB 8000 series	SCB 7100 series			SCB 7000S series			SCB 6000S series		
										
<b>Model</b>	<b>8004HD</b>	<b>7108</b>	<b>7116</b>	<b>7004S</b>	<b>7008S</b>	<b>7016S</b>	<b>6004S</b>	<b>6008S</b>	<b>6016S</b>	
<b>Video Input</b>	4	8	16	4	8	16	4	8	16	
<b>Audio Input</b>	0	8	16	4	8	16	4	8	16	
<b>Maximum Cards</b>	2 Cards	1 Card	1 Card	4 Cards	4 Cards	4 Cards	4 Cards	4 Cards	4 Cards	
<b>Maximum composite input per system</b>	8	16		64			64			
<b>Display Rate (FPS) NTSC/PAL</b>	120/100	240/200	480/400	120/100	240/200	480/400	120/100	240/200	480/200	
<b>Recording Rate @CIF (FPS) NTSC/PAL</b>	720p@120	240/200	480/400	120/100	240/200	480/400	120/100	240/200	480/400	
<b>Recording Rate @D1 (FPS) NTSC/PAL</b>	1080p@120	240/200	480/400	120/100	240/200	480/400	30/25	60/50	120/100	
<b>Video Resolution</b>	<b>NTSC</b>	1080p, 720p	704x480;352x240;176x120	704x480; 352x240;176x120			704x480; 352x240; 176x120			
	<b>PAL</b>		704x576; 352x288;176x144	704x576; 352x288;176x144			704x576; 352x288; 176x144			
<b>TV Output Rate</b>	<b>w/ DP*</b>	N/A	RCA and DP : 10fps	N/A			N/A			
	<b>w/o DP*</b>	N/A	RCA : 25fps	N/A			N/A			
	<b>Only DP*</b>	N/A	DP :14fps	N/A			N/A			
<b>Compression Format</b>	H/W H.264	H/W H.264		H/W H.264			H/W H.264			
<b>Interface</b>	PCI-E x1	PCI-E x1		PCI-E x1			PCI-E x1			
<b>Hardware Watchdog</b>	Support	Support		Support			Support			
<b>Dimension(W x H, mm)</b>	178 x 126	216x126		188 x 121			188 x 121			

- #1 SCB-7000S card supports up to 64CH@D1 real-time recording.
- #2 SCB-6000S card supports up to 64CH@CIF real-time recording.
- #3 All above cards can be installed in one Mainconsole server for Tribrid recording solution and video is encoded by individual compression card.
- #4 Any combination of SCB-7100 series card has the limitation in the max. 32 composite channels to be managed on single server.
- #5 DP\* means digital video output as HDMI.

## B. Video capture card

NUUO DVR Card	SCB 3000 series			SCB 1000 series	
					
Model	3004	3008	3016	1004	1008
Video Input	4	8	16	4	8
Audio Input	4			1	
Maximum Cards	2 Cards			4 Cards	
Maximum analog input per system	32			32	
Display Rate (FPS) NTSC/PAL	120/100			30/25	
Recording Rate @CIF (FPS) NTSC/PAL	120/100			30/25	
Video Resolution	NTSC	704x480; 640x480; 352x240			704x480; 640 x 480; 352x240
	PAL	704x576; 640x576; 352x288			704x576; 640 x 576; 352x288
Compression Format	S/W H.264				
Interface	PCI				
Hardware Watchdog	Support				
Dimension (W x H, mm)	200 x 120			155 x 120	

#1 SCB-3000 , 1000 series are pure video capture card supports up to 32CH@CIF recording.

#2 As using SCB-3000 , 1000 series card the video would be encoded by Mainconsole software.

#3 When installed two 3000 series card on one PC, the system can only support 352x240(NTSC),352x288(PAL) resolution for each.

## C. NUUO video compression card selling points

- ① 7000S , 6000S series card support up to 64 channels and 30fps real time per channel performance.
- ② 8004HD card has good performance ratio of resolution over bitrate.

	D1	→	Full HD
Resolution	1	:	6
Bitrate	1	:	4

- ③ 7100 series card support up to 16 channels and 30fps real time per channel performance with TV output for local display.

## 3. About NUUO IP<sup>+</sup> series license

A. Mainconsole has integrated 1,300 models of well-known brand IP camera. Just apply NUUO IP<sup>+</sup> license as below model table into the system and it could provide multiple channels of IP video connectivity.

IP+ Series	SCB-IP <sup>+</sup> 04	SCB-IP <sup>+</sup> 08	SCB-IP <sup>+</sup> 12	SCB-IP <sup>+</sup> 16	SCB-IP <sup>+</sup> 25	SCB-IP <sup>+</sup> 32	SCB-IP <sup>+</sup> 36	SCB-IP <sup>+</sup> 64
Max. of Cameras	4	8	12	16	25	32	36	64

B. The maximum number of camera connections depends on the server's hardware configuration and the total bit rate of the IP cameras. Please check NUUO Calculator on <http://support.nuuo.com/calculator/>

## 4. 3<sup>rd</sup> party integration

- A. Mainconsole is well prepared for vertical market application as retail , building , city wide , parking lot etc... scenarios by POS , LPR and Access control 3<sup>rd</sup> party device integration.
- B. With 3<sup>rd</sup> party metadata integration Mainconsole provides [intelligent searching engine] to find out useful evidences over the video quickly.
- C. The brand of POS had been integrated : Cardax , CDVI , FALCO , SOFTWARE HOUSE
- D. The brand of LPR had been integrated : VISEC
- E. The brand of access control had been integrated : IBM

## 5. Mainconsole recording solution briefing

- A. Up to 64 channels of video inputs and 128 channels of video outputs on single server.
- B. Video input interface includes analog , HD-SDI , IP various choices.
- C. Free remote client viewer supports up to 128 channels request from multiple Mainconsole recording servers.
- D. Face large-scale project NUUO CMS dedicated for central management purpose provides concentrated alarm management getting security information efficiently and better situational awareness.
- E. Mainconsole and CMS support 2-way audio transmission.
- F. With embedded IVS capability Mainconsole recording server offers early warning safeguard to reduce human resources and mistakes. NUUO IVS provides event and data collection types as below :

Event Type	Description
Signal Lost	Detect video signal connection
General Motion	There are 5 individual movement detection zones can be set in different sensitivity
Foreign Object	Detect foreign object in defined areas
Missing Object	Missing/being moved of defined objects
Focus Lost	Camera focus lost detector
Camera Occlusion	Camera blocked or damaged
Human counting	Counts 2 ways human passing through

- G. GUI recording and playback schedule time line overview. All the configuration and video search can be finished under single user interface.

4 kinds of recording mode as below :

— Always record

— Motion record

— Event record

— Boost record

Time

Camera list

The screenshot displays the 'Schedule Configuration' window. On the left, a 'Camera list' tree shows a hierarchy starting with 'Default' and 'Park1'. The main area features a 'Daily & weekly' timeline grid with colored bars representing recording schedules for each day of the week. Below the grid is a 'Configuration' table with columns for Start Time, End Time, Record, FPS, Quality, and Resolution. The table contains two entries: one for 'Boosting' from 00:00 to 06:00, and another for 'Event' from 06:00 to 23:59. On the right, a 'Preview' window shows a live video feed of a park with people. The interface includes standard window controls and 'OK'/'Cancel' buttons at the bottom.

## 6. Comprehensive benefits by Tribrid

With Tribrid solution, users can deploy their cameras freely depending on the field site demand. Most of area they can use analog cameras and part of important entrance use HD cameras. For the remote site they also can use IP cameras. The key points for camera selection refer to the comparison table as below:

Camera type Advantage	HD-SDI	Analog	IP
Standardization	High / No need to integrate 1 by 1		Medium / Require to integrate by SDK
100% plug and play linking to recorder	Yes		No / Require IP configuration
Near zero latency	Yes		No / A little buffer
Recording Immune to IP LAN failure	Yes		Sometimes not
High definition real time recording	Yes	Not high definition	High definition but not always real time 30fps
Deliver 720p or 1080p video	Yes	No	Yes
Deliver over 2MP video	No	No	Yes

## NUUO Inc.

- Leading manufacturer in NVR, DVR, Hybrid and Tribrid
- 128 employees
- 72 engineers
- Worldwide market with 94,800 installs
- Global offices — Taiwan(HQ), US, South Africa
- Awards
  - ✧ 2011 IFSEC System of the Year Finalist
  - ✧ 2011 A&S CCTV Excellence Award(Taiwan)
  - ✧ 2008 Secutech Innovation Award
  - ✧ 2007 Taitronics Innovation Award

## Useful links...

On line calculator (Server requirement) : <http://support.nuuo.com/calculator>

Wiki FAQ : <http://support.nuuo.com/>

Contact : [Sales@nuuo.com](mailto:Sales@nuuo.com)

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