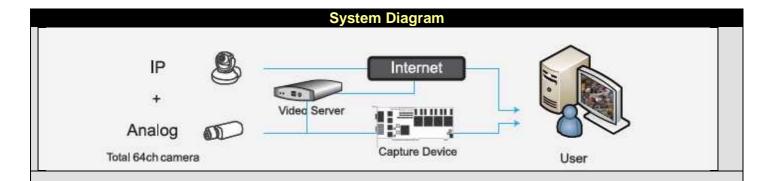


<b>NUUO DVR Card Co</b>	mpariso	n Table												
NUUO DVR Card		7100 series		7000 series			6000 series			3000 series			1000 series	
Model		SCB-7108	SCB-7116	SCB-7004	SCB-7008	SCB-7016	SCB-6004	SCB-6008	SCB-6016	SCB-3004	SCB-3008	SCB-3016	SCB-1004	SCB-1008
Video Input		8	16	4	8	16	4	8	16	4	8	16	4	8
Audio Input	Audio Input		16	4	8	16	4	8	16		4			1
Maximum Cards		1 Card	1 Card	4 Cards	4 Cards	2 Cards	4 Cards	4 Cards	4 Cards	2 Cards*		4 Cards*		
Maximum Channels		32		32		64		32		32				
Display Rate	NTSC	' '		120 fps	240 fps	480 fps	120 fps	120 fps 240 fps 480 fps		120 fps		30 fps		
	PAL	200 fps	400 fps	100 fps	200 fps	400 fps	100 fps	200 fps	400 fps	100 fps		25 fps		
Recording Rate @ CIF	NTSC	240 fps	480 fps	120 fps	240 fps	480 fps	120 fps	240 fps	480 fps	120 fps		30 fps		
	PAL	200 fps	400 fps	100 fps	200 fps	400 fps	100 fps	200 fps	400 fps	100 fps		25 fps		
Recording Rate @D <sup>2</sup>	NTSC	240 fps	480 fps	120 fps	240 fps	480 fps	30 fps	60 fps	120 fps	120 fps		30 fps		
	PAL	200 fps	400 fps	100 fps	200 fps	400 fps	25 fps	50 fps	100 fps	100 fps		25 fps		
Video Resolution	NTSC	704x480; 352	2x240;176x120	704x48	30; 352x240;	176x120	704x48	0; 352x240;	176x120	704x480 ; 640 x 480; 352x240		704x480 ; 640 x 480; 352x240		
l luco ixesolution	PAL	704x576; 352x288; 176x144		704x576; 352x288; 176x144			704x576; 352x288; 176x144			704x576 ; 640 x 576; 352x288			704x576 ; 640 x 576; 352x288	
Compression Format		Hardware Compression H.264		Hardware Compression H.264			Hardware Compression H.264			Software Compression H.264			Software Compression H.264	
Interface		PCI-e		PCI-e			PCI-e x1		PCI		PCI			
Available I/O Card		2 Card	4 Cards	1 Card	2 Cards	4 Cards	1 Card	2 Cards	4 Cards	4 Cards			1 Cards	
Available I/O Box		Support		Support			Support		Support		Support			
Hardware Watchdog		Support		Support			Support			Support		Support		
Dimension (mm)		167 (W) x 121 (H)	167 (W) x 121 (H)	167 (W) x 121 (H)	167 (W) x 121 (H)	216 (W) x 126 (H)	167 (W) x 121 (H)	167 (W) x 121 (H)	216 (W) x 126 (H)	200 (W) x 120 (H)		155 (W) x 120(H)		
Warranty		2 ye	2 years*			2 years*		2 years*		2 years*				
						Sys	stem Minimu	ım Requirer	nents (per c	ard)				
OS Supported		Windows XP / Windows 2003 / Windows 7												
CPU		Intel I	Intel Core 2 DuoE5300 Intel Core 2 DuoE5300					E5300	Intel Core 2 DuoE5300			Intel Core 2 DuoE5300		
RAM		2 GB												
		For system with	multiple DVR car	ds stacked						R card insta 32ch and 30		system with 3	32ch or above ar	e recommended.
HDD		250 GB												
Mother-board	other-board Intel P45 or P43 chip or above MB vendor ASUS Gigabyte or MSI with Intel Chipset recommended													
Display  ATI Radeon 3850/4850 nVIDIA GeForce GF-9600 or above (ATI Driver V9-2 recommended ATI Driver V10 not support)								oort)						
								Note						
Note		* For stability reason we strongly recommend to apply a desktop with a system fan when using SCB-7100/7000/6000 series.  ** Any combination of SCB-7100/7000/6000 series cards is possible with a limitation on the maximum 32 analog to be manage on single machine.  ** The warranty years of US area are 3 years.  ** When installed two 3000 series card on one PC the system can only support 352x240 (NTSC) 352x288 resolutions for each.  ** The warranty years of US area are 3 years.											ars of US area are	

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#### **NUUO Software v3.3.3**

#### **Main Features**

- Supports up to 64\* channels
- Supports megapixel IP cameras
- · Supports H.264 compression format
- · Triple monitor display
- Support for standard (4:3) and wide screen display (16:9, 16:10)
- Supports Joysticks
- · E-map
- Instant Playback
- · Two-way audio
- Unique GUI recording schedule
- · Digital PTZ and multi-view
- · Smart detection of 6 events with 10 instant responses
- Counting application
- Intelligent playback system with 5 video analytics searches
- · POS and I/O device integration
- Up to 128\*\*CH remote live view
- Supports transcode and multiple stream profiles
- · Supports digital watermark
- Remote playback, remote backup, remote I/O control and remote desktop configuration
- Supported by NUUO Central Management System
- Supports 49 brands of IP cameras and over 1000 models
- · Supports 24 languages
- · Supports Windows mobile, iPhone and BlackBerry clients
- \* 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 <a href="http://support.nuuo.com/calculator/">http://support.nuuo.com/calculator/</a>
  - \* \*The maximum number of camera connections depends on the server's and client's hardware configuration.

#### Specifications

### System, setting, management and integration:

- Open Platform: Supports over 1000 models of IP cameras, megapixel cameras and video servers from 49 brands of network camera manufacturers; supports H.264, MPEG-4, MJPEG, MxPEG video formats; integrates various systems including point of sale (POS) and I/O devices, SDK for access control integration available upon request.
- Multi-site/Multi-server: Each NVR server supports up to 64\* channels, from IP cameras and video encoders with analog cameras, and can be managed by NUUO CMS or remote live view client for centralized management in multi-site projects
  - \* 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 <a href="http://support.nuuo.com/calculator/">http://support.nuuo.com/calculator/</a>
- Multiple Video Clients: NUUO NVR server can stream video to multiple Remote Live Viewers, web clients and

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mobile clients simultaneously.

- Intelligent Video Analytics: NUUO IVS supports 6 types of video analytics including general motion, missing object, camera occlusion, foreign object, focus lost and signal lost. Each IVS alarm can trigger up to 10 unique instant notifications.
- Intelligent PTZ: Joystick support on PTZ cameras and software enabled digital PTZ function are both available in NUUO NVR. Preset points and patrol functions are also available on many camera models.
- **GUI Recording Schedule**: Intuitive GUI recording schedule featuring continuous recording, motion recording and the 6 unique event recording modes. Users can define the recording schedule for each camera on a day by day basis.
- Triple Monitor: Up to 64\* channels of live view video can be displayed per monitor. Monitor 1 and monitor 2 can both display live view video or act as alarm monitor while the 3<sup>rd</sup> monitor can be used for playback

  \* 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 <a href="http://support.nuuo.com/calculator/">http://support.nuuo.com/calculator/</a>
- Transcoding: Record and display live video at different frame rate and resolution.
- Advanced E-Map: Capability to import custom image file, place the cameras and I/O on the map to indicate where events are being triggered with a convenient video preview window.
- User-Friendly Interface: GUI recording schedule, camera drag and drop, I/O control menu and PTZ control menu.
- Automatic Camera Model Detection: automatically search for all available IP cameras within the network (camera must support UPnP protocol). For cameras that don't support UPnP, users can manually insert the IP camera. The auto detection function will help the user to find the brand and model of the camera after specifying its IP address.
- Counting Application: intelligent 2-way (in and out) counting of object, people and traffic.
- User Authority Management: Support unlimited number of users with detailed and fully customizable user privilege on each user.
- Network Flow Monitor: Data streaming bandwidth of each remote client connection to the NVR server can be monitored and blocked if flow rate is too high.
- **Auto Recycle:** Automatically recycle recording files when the storage is full. Separate recycle schedule between recordings and varies log files.
- Integration Support: Open SDK for integration with third-party systems such as access control, automation, burglar alarm, video analytics and others.

### **Live Display:**

- Multi-view: NUUO NVR can duplicate the same live view video onto multiple channels and digitally zone in to see the details of different spots on cloned channels without losing the original live view video.
- Intelligent PTZ: Joystick support on PTZ cameras and software enabled digital PTZ function are both available in NUUO NVR. Preset points and patrol functions are also available on many camera models.
- Monitor Resolution: Supports 1024x768, 1200x900, 1280x1024, 1440x900, 1600x1200, 1680x1050, 1920x1080, 1920x1200 screen resolutions
- Advanced E-Map: Freedom to import custom image file, place the cameras and I/O on the map to indicate where events are getting triggered with a convenient video preview window.



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- Bandwidth Monitor: Monitor and display the bandwidth usage of individual cameras and remote viewing clients.
- Two-way Audio: Listen and record audio from camera's microphone. Talk to IP camera's speaker.
- Instant Playback: Allow to play the last few minutes of any live video channel on MainConsole and Remote Live View

### Playback, Search, Export and Secure data:

- **Post-Recording Processing:** Search for 5 types of different analytics events, digital PTZ and video enhancement tool are all available in playback.
- Multi-Channel Playback: Play up to 16 channels of recorded video simultaneously both locally and remotely.
- Video Enhancement: Fine tune the image's visibility, sharpen, brightness, contrast or even grey scale.
- Intelligent Search: Search for 5 different special events (general motion, missing object, foreign object, camera occlusion and signal lost) in recorded files with date, time and log file.
- Video Export: Take a snapshot of the recording in JPEG/BMP format or export a section of the video in "AVI" and "ASF" format.
- **Backup**: Backup the recording for archiving purposes or backup the recording with an embedded player to watch at a separate location. NVR supports both local and remote backup to local HD, CD, and DVD.
- Log data: Unusual event, system log, counting application, POS log and export and backup can export to "xls" or "txt" file
- Watermark: Protect for original recording from alternation with our watermark verification tool.
- **DBTool**: Reconstruct, repair or relocate the recordings in local drive, or external drive.

### **Remote operations:**

- Multiple Live View Display: Streaming live video from multiple NUUO servers (NVR, DVR, and NDVR) simultaneously.

  Dual monitors support with up to 128 channels per monitor (64\* channels per monitor).
  - \* 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 <a href="http://support.nuuo.com/calculator/">http://support.nuuo.com/calculator/</a>
- Multi Playback Channels Display: Remote playback of 16 channels recording from any one of the NUUO servers (NVR, DVR, and NDVR).
- Intelligent PTZ: Joystick support on PTZ cameras and software enabled digital PTZ function are both available in NUUO NVR. Preset points and patrol functions are also available on many camera models.
- I/O Event Control: Easy to use input and output control panel to remotely trigger digital outputs and monitor input status.
- **E-Map**: A map view of where each camera and I/O devices are located with a convenient preview window.
- Two-way Audio: Listen and record audio from camera's microphone. Talk to IP camera's speaker.

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- Remote Backup: Backup the video into .DAT format with a NUUO player attached for easy achieve and viewing purposes.
- Web-browser (client): Display up to 64 channels of live video stream or 16 channels of playback in I.E. from any single NUUO server.
- PDA Viewer: Up to 16 channels snapshot or 1 channel live display; PTZ and I/O control.
- iPhone: Support iPhone application client and browser client (safari) to live view video and control PTZ functions.
- BlackBerry: Support BlackBerry application client to live view video and control PTZ functions.

#### **Extension Service**

- Central Management System: Ultimate central monitoring solution for grand scale projects and projects with multiple sites. Fully compatible with all NUUO servers (NVR, DVR, NDVR and NVRmini).
- Remote Desktop Service: Embedded remote desktop server that will host for any NUUO remote desktop clients to remotely configure the NVR software (remote desktop client is installed separately).
- 3GPP Service: NUUO NVR supports mobile devices through 3G network to stream live view video.

#### **External Device**

- Point of Sale (POS): NUUO Point of Sales system works on NUUO NVR by overlaying the transaction text from cash register onto live video channels. All POS recordings are searchable.
- External I/O capacity: Please refer to our I/O box section: C24/C26/C28 for more details.
- ImmerVision Lens: IMV1-1/3 Lens supported.

### **Smart Guard:**

- Smart detection of 6 camera events, 14 different user-defined POS events, digital input events and 4 system events.

  The combination of our smart guard events is a powerful tool to combat vandalism and provide a platform for operators to monitor and respond to live events immediately.
  - Camera Events:
    - General Motion
    - Missing Object
    - Foreign Object
    - Focus Lost
    - Camera Occlusion
    - Signal Lost
  - Signal Digital Input Event
  - System Event:
    - System alarm on Disk Space Exhausted
    - System alarm on System Health Unusual (CPU temperature)
    - System alarm on Resource Depleted (CPU loading)
    - System alarm on Network Congestion

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- Instant alarm notification is the fastest and most cost efficient way to automatically respond to any smart detection event.
  - 10 automatic instant alarm responses:
    - On Screen Display
    - Play Sound
    - Send E-mail
    - Phone Call
    - PTZ Preset Go
    - Signal Digital Output
    - Send a SMS message
    - Send to Central Server
    - Send Snapshot to FTP
    - Popup E-Map on Event

			Suppor	t Language						
Chinese (Simpli	fied)	Chin	ese (Traditional)	Czech		Danish				
English			Finnish	French		German				
Greek			Hebrew	Italian		Japanese				
Korean			Norway	Polish		Portuguese(Brazil)				
Portuguese(Por	tugal)		Russian	Serbian	)	Slovak				
Spanish			Swedish	Thai		Turkish				
IP Camera Brand(s) Supported										
	ACTi		Arecont	ARM	Atlantis		Axis			
	Basler		Bosch	Brickcom	Camtro	า	Cisco			
ID Comercia	CNB		Digimerge	D-Link	Dynaco	lor	ENEO			
IP Camera	Etrovisi	on	EverFocus	Eyeview	Fine		HIKVision			
Brand(s) Supported (with	Hitron	Honeywell		Icantek	IQinvisio	on	JVC			
device pack	LevelO	ne	Linksys	Lorex	Lumene	ra	Mobotix			
v1.7.0)	Moxa		Onvif	Panasonic	Pelco		Pixord			
V 1.7.0)	Planet	SAE		Samsung	Santec		Sanyo			
	Seorim	Sony		StarDot	Toshiba		Truen			
	Videosec		Vivotek	Y-cam	Zavio					































































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