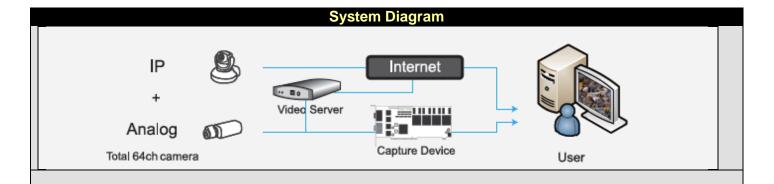


NUUO DVR Card Co	npariso	n Table												
NUUO DVR Card		7100 series		7000 series		6000 series		3000 series		1000 series				
Model		SCB-7108	SCB-7116	SCB-7004	SCB-7008	SCB-7016	SCB-6004	SCB-6008	SCB-6016	SCB-3004	SCB-3008	SCB-3016	SCB-1004	SCB-1008
Video Input		8	16	4	8	16	4	8	16	4	8	16	4	8
Audio Input		8	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	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	NTSC	240 fps	480 fps	120 fps	240 fps	480 fps	120 fps	240 fps	480 fps		120 fps		30	fps
@CIF	PAL	200 fps	400 fps	100 fps	200 fps	400 fps	100 fps	200 fps	400 fps		100 fps		25	fps
Recording Rate @D1	NTSC	240 fps	480 fps	120 fps	240 fps	480 fps	30 fps	60 fps	120 fps	120 fps 30 fp		fps		
	PAL	200 fps	400 fps	100 fps	200 fps	400 fps	25 fps	50 fps	100 fps	100 fps		25	fps	
Video Resolution PAL		704x480; 352	2x240;176x120	704x48	352x240;	176x120	704x48	0; 352x240;	176x120	704x480 ; 640 x 480; 352x240		704x480 ; 640 x 480; 352x240		
		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			Hardwar	e Compressi	on H.264	Software Compression H.264		Software Compression H.264		
Interface		PC	il-e		PCI-e	ı		PCI-e x1	I	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	0 (W) x 120	(H)	155 (W)	x 120(H)
Warranty		2 ye	ars*		2 years*			2 years*			2 years*		2 ye	ears*
						Sys	tem Minimu	m Requiren	nents (per c	ard)				
OS Supported Windows XP / Windows 2003 / Windows 7														
CPU Intel I3 540		3 540	Intel Core 2 DuoE5300 Intel C						Core 2 DuoE	5300	Intel Core 2	2 DuoE5300		
RAM		2 GB												
		Above RAM amount is recommendd based on one DVR card installation. For system with multiple DVR cards stacked 1G RAM for system under 16ch 2G RAM for system under 32ch and 3G RAM for system with 32ch or above are recommended.									e recommended.			
HDD		250 GB												
Mother-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)												
								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. ** The warranty years of US area are 3 years.									ars of US area are			



NUUO 3.5.0 version



NUUO Software v3.5.0

Main Features

- Supports up to 64* channels
- · Supports megapixel IP cameras
- · Supports H.264 compression format
- · Triple monitor display
- Supports auto backup
- · POS, I/O device, LPR and access control integration
- · Windows Active Directory
- · Privacy Mask
- · Boosting Recording
- On the edge motion integration
- 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
- 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 53 brands of IP cameras and over 1140 models
- Supports 27 languages
- · Supports Windows mobile, iPhone, iPad, Android 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 http://support.nuuo.com/calculator/
- * *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 1100 models of IP cameras, megapixel cameras and video servers from 53 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, license plate recognition and access control system. 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



NUUO 3.5.0 version

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 http://support.nuuo.com/calculator/
- **Disk Load Balance**: NUUO NVR improves recording performance to utilize several disks and dynamically distributes the video loads among the disks to improve throughput.
- Multiple Video Clients: NUUO NVR server can stream video to multiple Remote Live Viewers, web clients and 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 3rd 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 http://support.nuuo.com/calculator/
- **Transcoding**: Record and display live video at different frame rate and resolution.
- **Boosting Recording:** Dynamically boost recording quality on motion and other events to optimize recording storage.
- 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.
- Windows® Active Directory: Synchronized with Windows® Active Directory server to manage user privilege and control of camera action.
- **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.
- **SDK Integration Support**: Open SDK for integration with third-party systems such as access control, automation, burglar alarm, video analytics and others.
- **Upgrade notification**: Automatically obtain upgrade notification from NUUO website to download the latest version.

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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.
- **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
- **Privacy Mask**: Protect privacy of the sensitive image by blocking out sensitive areas from view and covering the areas with black boxes in live, playback and exported video.

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. Forward playback at 1/16x, 1/8x, 1/4x, 1/2x, 1x, 2x, 4x, 8x, 16x, 32x, 64x.
- 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.
- Auto and Manual Backup: Schedule or manual 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.

ONU O
The Intelligent Surveillance Solution

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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 http://support.nuuo.com/calculator/
- 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.
- 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. Support direct login information (user/pass) in a URL address
- PDA Viewer: Up to 16 channels snapshot or 1 channel live display; PTZ and I/O control.
- Mobile Client: Support iPhone, iPad, Android and 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.
- Panomorph PTZ Camera (360°): Integrates ImmerVision Lens (IMV1-1/3 Lens supported) to view Live, record and

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playback the complete 360x180 FOV. Users can easy to detect, track and analyze throughout the entire area.

■ 3rd Party Integration: Metadata Plugin technology support 3rd party software including license plate recognition, access control and so on. Though Metadata Plugin, users can manage metadata by recording real time information in databases which can describe events that link to video and audio. The system provides smart search tool to retrieve information and recorded video.

*V3.5 will support Visec (LPR) and Tyco (access control).

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 (Multiple sensitivity)
 - Edge 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
- 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
- Schedule-based: Users can define the smart guard schedule for each event on a day by day basis

Specifications Specification Specification Specification Specification Specification Specificati									
Model	SCB-IP+ Series								
IP Camera Input(s)	4, 8, 12, 16, 25, 32, 36, 64*								
Version	3.5								
	ACTi	Arecont	ARM	Atlantis	Axis				
ID Comera Brand(a)	Basler Bosch		Brickcom	Camtron	Cisco				
IP Camera Brand(s) Supported (with	CNB CryptoTelecom		Dallmeier	DiGiMERGE	D-Link				
device pack v1.10.0)	DYNACOLOR	Eneo	ETROVISION	EverFocus	Eyeview				
device pack vi. 10.0)	Fine HIKVision		Hitron	Honeywell	iCANTEK				
	IQinVision	JVC	LevelOne	LILIN	Linksys 6/				



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	LOREX	Lumenera	MOBOTIX	Moxa	NetworkCamera				
	Onvif	Panasonic	Pelco	Pixord	Planet				
	SAE	Samsung	Santec	Sanyo	Seorim				
	Sony	StarDot	Toshiba	Truen	Videosec				
	Vivotek	Y-cam	Zavio						
Digital PTZ			orted in Live view a	nd Playback					
Multiple Show	Supported in Live view								
	Enable maximum 64 channels with two screens to show live video and viewer recording								
riple Monitor video on third monitor.									
Soroon Possilution	00								
Screen Resolution	Screen Resolution 1024x768, 1200x900, 1280x1024, 1440x900 1600x1200, 1680x1050, 1920x1080, 1920x1200								
Audio & Video		Synchi	onized audio & vid	eo recordina					
Recording	Synchronized audio & video recording.								
Screen Division	1/4/6/9/10/13/16/25/36/49/64 divided screen.								
	Compression Format H.264;MPEG-4;M-JPEG;MxPEG								
Recording Type	Continuous record, record by digital input, motion record, event recording, boosting								
	recording, record by schedule, manual record								
Playback Channels	Playback Maximum 16 channels under several modes & full screen.								
Playback Control	Playback, backward playback, fast forward/backward playback.								
Auto Recycling	Auto recycling when storage disk is full.								
Recording									
Available I/O Function	Supporting I/O Box								
Available POS Device	SCB-C31 RS232 to Ethernet Convertor								
Hardware Watchdog	Hardware Watchdog N/A								
00.0			Requirements	\/'-1- OD4 /\M	. 7.004				
OS Supported	32bits: MS Windows XP pro SP3 / Vista SP1 / Win 7 SP1								
CPU	64bits: Win 7 SP1/ Win Server 2008 R2								
RAM									
HDD	2 GB								
Motherboard	250 GB or above								
Wolfierboard	Intel P55, H55, X58, P45, P43 chip, MB vendor ASUS Gigabyte or MSI with Intel Chipset								
Display	recommended ATI Radeon 4650 or above (ATI Driver V11-2 recommended,)								
Diopidy	/(11	Not	,	51 V 11 Z 1000H	innended,)				
* The maximum number of c	amera connections d			figuration and th	he total bit rate of the IP				
* 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/									
Support Language									
Bulgarian	Chinese (Si	mplified)	Chinese (Traditi	onal)	Czech				
Danish	Engli	sh			Finnish				
French	Germ	an	Hebrew		Hungarian				
Italian	Japan		Korean	Norway					
Polish	Portuguese		Portuguese (Po	Romanian					
Russian	Serbi	an	Slovak	Spanish					
Swedish	Tha	ni	Turkish						



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