NUUO
The Intelligent Surveillance Solution

SCB-7000 Series

Specifications			
Model	SCB-7004	SCB-7008	SCB-7016
Video Input	4 Cameras	8 Cameras	16 Cameras
Audio Input	4 Channels	8 Channels	16 Channels
Maximum Cards	4 Cards	4 Cards	2 Cards
Display Rate	120 fps (NTSC), 100 fps (PAL)	240 fps (NTSC), 200 fps (PAL)	480 fps (NTSC), 400 fps (PAL)
Recording Rate @D1	120 fps (NTSC), 100 fps (PAL)	240 fps (NTSC), 200 fps (PAL)	480 fps (NTSC), 400 fps (PAL)
Video Resolution	NTSC: 176x120; 352x240; 704x480		
	PAL: 176x144; 352x288; 704x576		
Compression Format	Hardware Compression H.264		
Interface	PCI-e x1		
Available I/O Card	1 Card	2 Cards	4 Cards
Available I/O Box	Support		
Hardware Watchdog	Support		
Dimension	167 (W) x 121 (H) mm	167 (W) x 121 (H) mm	216 (W) x 126 (H) mm
Software Version	NUUO Full D1 H.264 Hybrid System v3.2.21		
System Minimum Requirements (per card)			
OS Supported	Windows XP SP3/ Windows 2003/ Windows Vista SP1		
CPU	Core 2 Duo E5300	Core 2 Duo E5300	Core 2 Quad Q9400*
RAM	2 GB		
HDD	250 GB		
Mother-board	Intel P45 or P43 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)		

* For more information about the system requirements of different channels, please refer to the "System Requirements of NUUO SCB-7000 series" document.

** For stability reason, we strongly recommend to apply a desktop with a system fan when using SCB-7000 series.

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SCB-6000 Series

Specifications			
Model	SCB-6004	SCB-6008	SCB-6016
Video Input	4 Cameras	8 Cameras	16 Cameras
Audio Input	4 Channels	8 Channels	16 Channels
Maximum Cards	4 Cards	4 Cards	2 Cards
Display Rate	120 fps (NTSC), 100 fps (PAL)	240 fps (NTSC), 200 fps (PAL)	480 fps (NTSC), 400 fps (PAL)
Recording Rate @CIF	120 fps (NTSC), 100 fps (PAL)	240 fps (NTSC), 200 fps (PAL)	480 fps (NTSC), 400 fps (PAL)
Recording Rate @D1	30 fps (NTSC), 25 fps (PAL)	60 fps (NTSC), 50 fps (PAL)	120 fps (NTSC), 100 fps (PAL)
Video Resolution	NTSC: 176x120; 352x240; 704x480		
	PAL: 176x144; 352x288; 704x576		
Compression Format	Hardware Compression H.264		
Interface	PCI-e x1		
Available I/O Card	1 Card	2 Cards	4 Cards
Available I/O Box	Support		
Hardware Watchdog	Support		
Dimension	167 (W) x 121 (H) mm	167 (W) x 121 (H) mm	216 (W) x 126 (H) mm
Software Version	NUUO Full D1 H.264 Hybrid System v3.2.21		
System Minimum Requirements (per card)			
OS Supported	Windows XP SP3/ Windows 2003/ Windows Vista SP1		
CPU	Core 2 Duo E5300	Core 2 Duo E5300	Core 2 Quad Q9550*
RAM	2 GB	2 GB	2 GB
HDD	250 GB		
Mother-board	Intel P45 or P43 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)		

* For stability reason, we strongly recommend to apply a desktop with a system fan when using SCB-6000 series.

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SCB-6000L Series		

Specifications		
Model	SCB-6004L	SCB-6008L	SCB-6016L
Video Input	4 Cameras	8 Cameras	16 Cameras
Audio Input	4 Channels	8 Channels	16 Channels
Maximum Cards	4 Cards	4 Cards	2 Cards
Display Rate	120 fps (NTSC), 100 fps (PAL)	240 fps (NTSC), 200 fps (PAL)	480 fps (NTSC), 400 fps (PAL)
Recording Rate @CIF	60 fps (NTSC), 50 fps (PAL)	120 fps (NTSC), 100 fps (PAL)	240 fps (NTSC), 200 fps (PAL)
Recording Rate @D1	20 fps (NTSC), 18 fps (PAL)	40 fps (NTSC), 36 fps (PAL)	80 fps (NTSC), 72 fps (PAL)
Video Resolution	NTSC: 176x120; 352x240; 704x480		
	PAL: 176x144; 352x288; 704x576		
Compression Format	Hardware Compression H.264		
Interface	PCI-e x1		
Available I/O Card	1 Card	2 Cards	4 Cards
Available I/O Box	Support		
Hardware Watchdog	Support		
Dimension	167 (W) x 121 (H) mm	167 (W) x 121 (H) mm	216 (W) x 126 (H) mm
Software Version	NUUO Full D1 H.264 Hybrid System v3.2.21		
System Minimum Requirements (per card)			
OS Supported	Windows XP SP3/ Windows 2003/ Windows Vista SP1		
CPU	Core 2 Duo E5300	Core 2 Duo E5300	Core 2 Quad Q9550*
RAM	2 GB	2 GB	2 GB
HDD	250 GB		
Mother-board	Intel P45 or P43 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)		

* For stability reason, we strongly recommend to apply a desktop with a system fan when using SCB-6000L series.

SCB-5000 Series
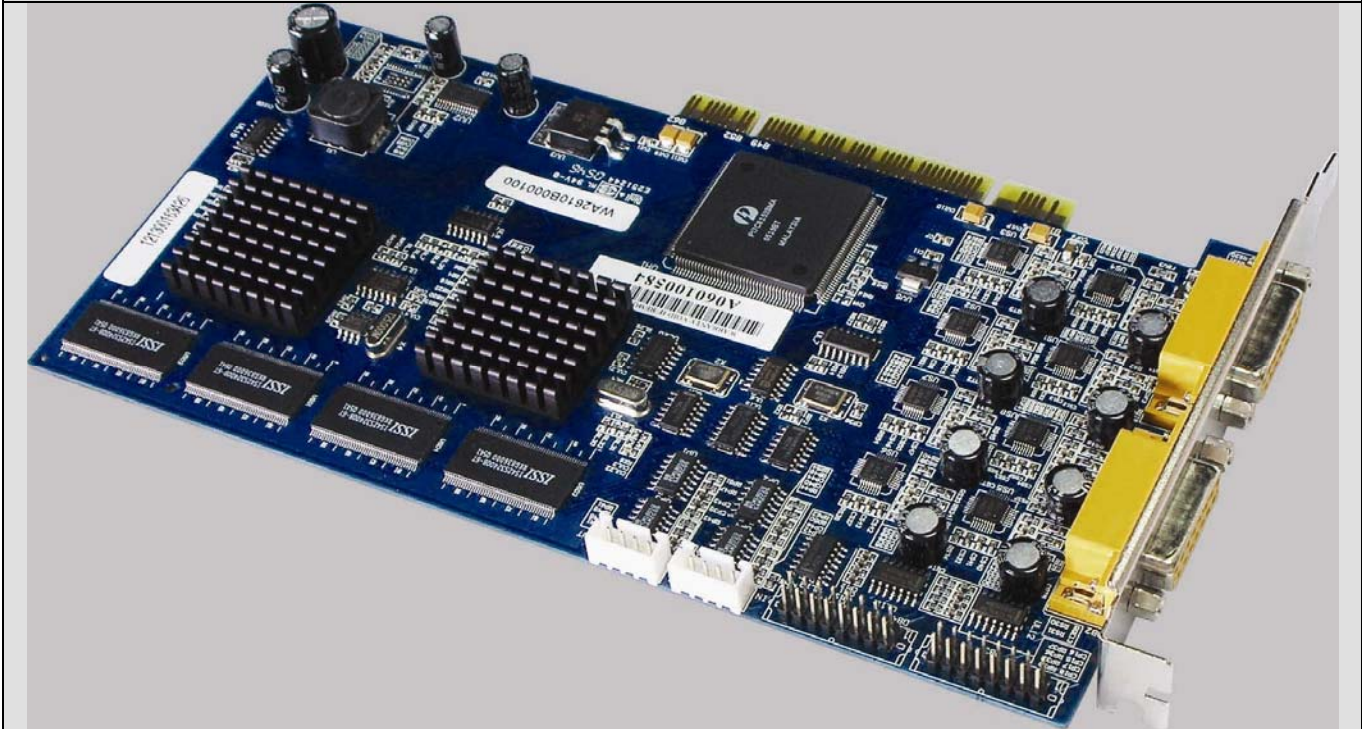
Specifications			
Model	SCB-5004	SCB-5008	SCB-5016
Video Input	4 Cameras	8 Cameras	16 Cameras
Audio Input	4 Channels	8 Channels	16 Channels
Maximum Cards	4 Cards	4 Cards	3 Cards
Display Rate @D1	120 fps (NTSC), 100 fps (PAL)	240 fps (NTSC), 200 fps (PAL)	480 fps (NTSC), 400 fps (PAL)
Recording Rate @CIF	120 fps (NTSC), 100 fps (PAL)	240 fps (NTSC), 200 fps (PAL)	480 fps (NTSC), 400 fps (PAL)
Video Resolution	NTSC: 176x120; 352x240; 528x320; 704x480*		
	PAL: 176x144; 352x240; 528x320; 704x480*		
Compression Format	Hardware Compression H.264		
Available I/O Card	N/A		
Available I/O Box	Supporting		
Hardware Watchdog	N/A		
Dimension	154 (W) x 95 (H) mm	201 (W) x 109 (H) mm	265 (W) x 125 (H) mm
Software Version	NUUO H.264 Hybrid system v3.2.0		
System Minimum Requirements			
OS Supported	Windows XP SP3/ Windows 2003		
CPU	Core 2 Duo E5300		
RAM	2 GB		
HDD	250 GB		
Mother-board	Intel P45 or P43 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)		

* Support SCB-5004 to record 1ch @ D1 resolution, SCB-5008 to record 2ch @ D1 resolution, SCB-5016 to record 4ch @ D1 resolution
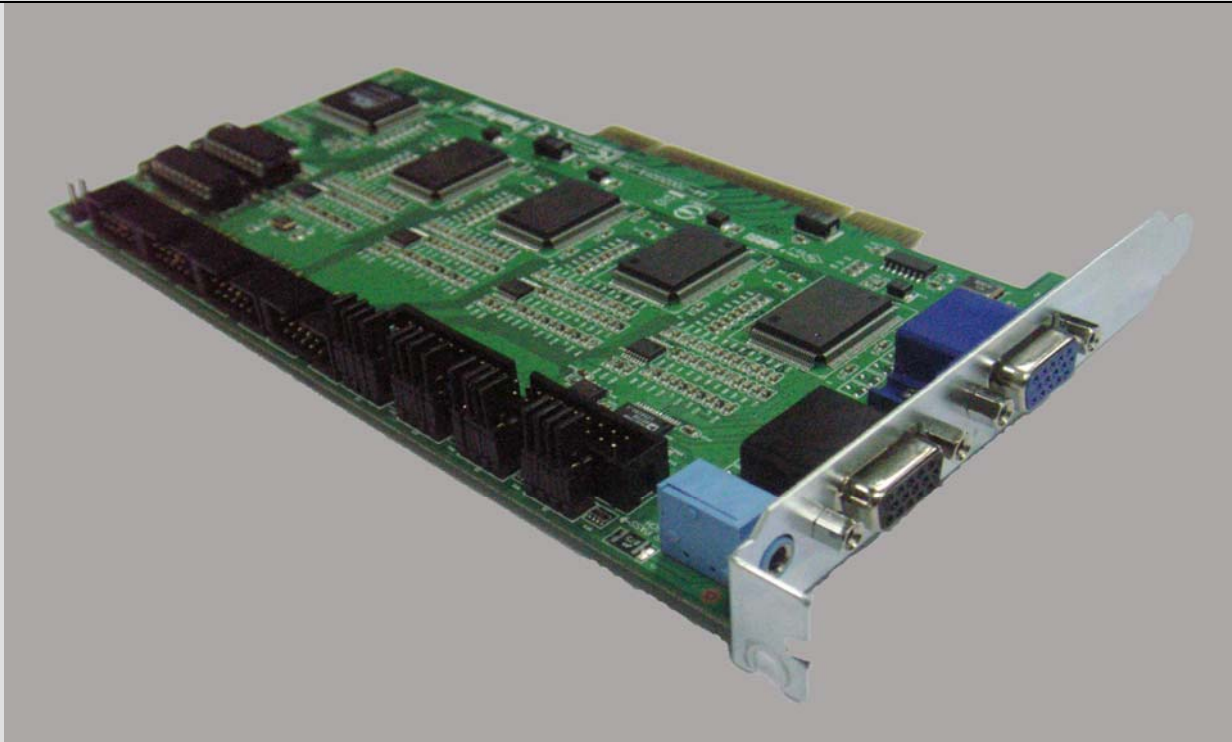
SCB-G3-3000 Series			
Specifications			
Model	SCB-3004	SCB-3008	SCB-3012	SCB-3016
Video Input	4 Cameras	8 Cameras	12 Cameras	16 Cameras
Audio Input	4 Channels			
Maximum Cards	2 Cards*			
Display Rate @D1	120 fps (NTSC), 100 fps (PAL)			
Recording Rate @CIF	120 fps (NTSC), 100 fps (PAL)			
Recording Rate @D1	120 fps (NTSC), 100 fps (PAL)			
Video Resolution	NTSC : 704x480 ; 640 x 480; 352x240			
	PAL : 704x576 ; 640 x 576; 352x288			
Compression Format	Software Compression MPEG-4			
Available I/O Card	4 Cards			
Hardware Watchdog	Yes			
Dimension	200 (W) x 120 (H) mm			
Software Version	NUUO MPEG-4 Hybrid system v3.2.21			
System Minimum Requirements			
OS Supported	Windows XP SP3/ Windows 2003/ Windows Vista SP1			
CPU	Core 2 Duo E5300			
RAM	2 GB			
HDD	250 GB			
Mother-board	Intel P45 or P43 or above,MB vendor ASUS,Gigabyte or MSI with Intel Chipset recommended			
Display	ATI Radeon 4650, nVIDIA GeForce GF-9600 or above(ATI recommended)			

* When installed two 3000 series card on one PC, the system can only support 352x240(NTSC), 352x288(PAL) resolution for each channels.
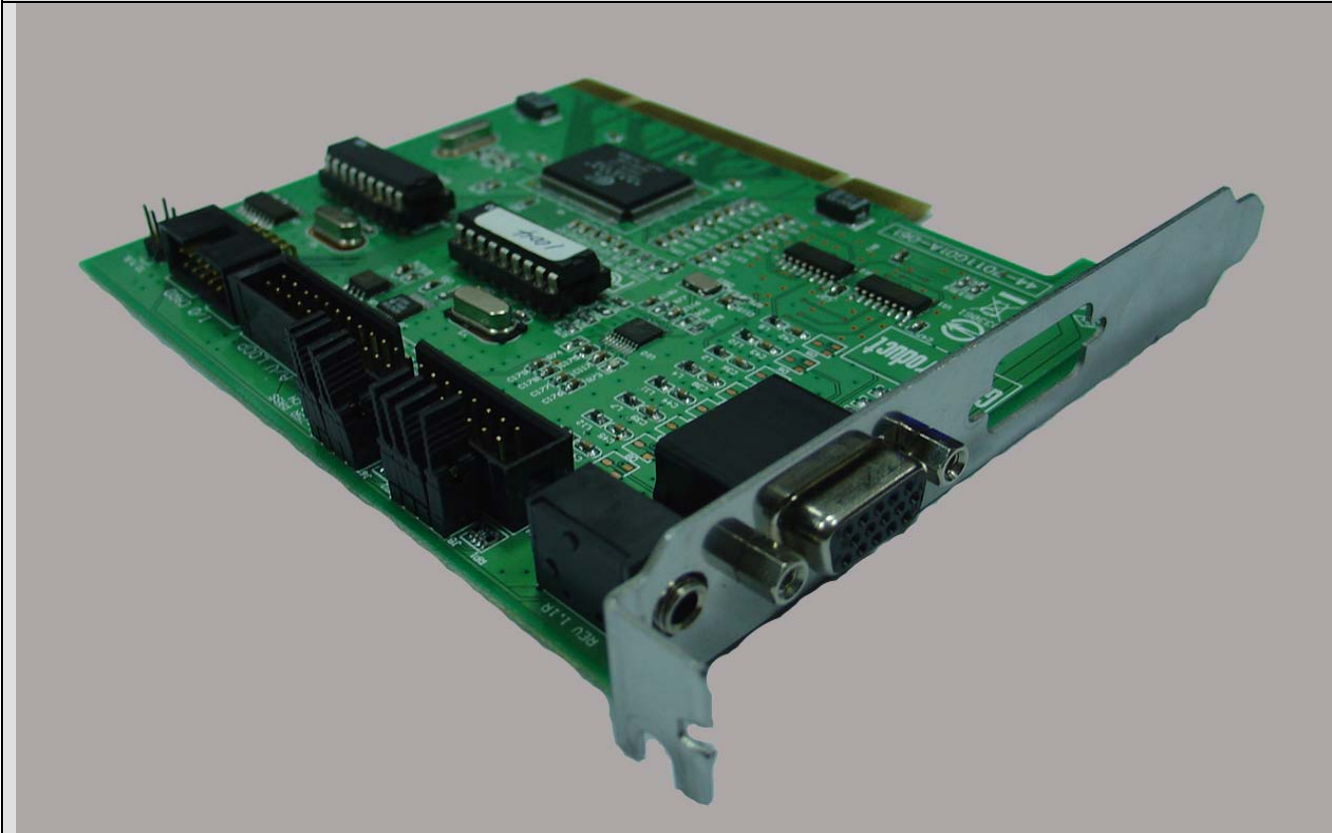
SCB-G3-2000 Series
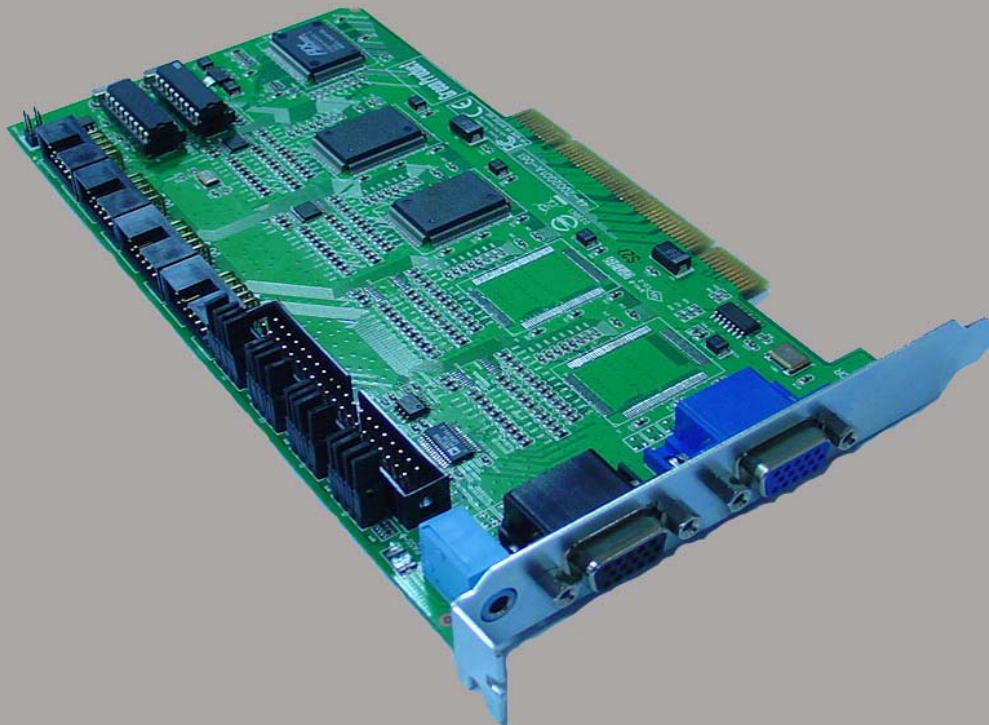
Specifications		
Model	SCB-2004	SCB-2008
Video Input	4 Cameras	8 Cameras
Audio Input	2 Channels	
Maximum Cards	4 Cards*	
Display Rate @D1	60 fps (NTSC), 50 fps (PAL)	
Recording Rate @CIF	60 fps (NTSC), 50 fps (PAL)	
Video Resolution	NTSC : 704x480 ; 640 x 480; 352x240	
	PAL : 704x576 ; 640 x 576; 352x288	
Compression Format	Software Compression MPEG-4	
Available I/O Card	2 Cards	
Hardware Watchdog	Yes	
Dimension	200 (W) x 120(H) mm	
Software Version	NUUO MPEG-4 Hybrid system v3.2.21	
System Minimum Requirements		
OS Supported	Windows XP SP3/ Windows 2003/ Windows Vista SP1	
CPU	Core 2 Duo E5300	
RAM	2 GB	
HDD	250 GB	
Mother-board	Intel P45 or P43 or above,MB vendor ASUS,Gigabyte or MSI with Intel Chipset recommended	
Display	ATI Radeon 4650, nVIDIA GeForce GF-9600 or above(ATI recommended)	

* When installed four 2000 series card on one PC, the system can only support 352x240(NTSC), 352x288(PAL) resolution for each channels.

SCB-G3-1000 Series

Specifications		
Model	SCB-1004	SCB-1008
Video Input	4 Cameras	8 Cameras
Audio Input	1 Channel	
Maximum Cards	4 Cards	
Display Rate @D1	30 fps (NTSC), 25 fps (PAL)	
Recording Rate @CIF	30 fps (NTSC), 25 fps (PAL)	
Video Resolution	NTSC : 704x480 ; 640 x 480; 352x240	
	PAL : 704x576 ; 640 x 576; 352x288	
Compression Format	Software Compression MPEG-4	
Available I/O Card	1 Card	
Hardware Watchdog	Yes	
Dimension	155 (W) x 120 (H) mm	
Software Version	NUUO MPEG-4 Hybrid system v3.2.21	
System Minimum Requirements		
OS Supported	Windows XP SP3/ Windows 2003/ Windows Vista SP1	
CPU	Core 2 Duo E5300	
RAM	2 GB	
HDD	250 GB	
Mother-board	Intel P45 or P43 or above,MB vendor ASUS,Gigabyte or MSI with Intel Chipset recommended	
Display	ATI Radeon 4650, nVIDIA GeForce GF-9600 or above(ATI recommended)	

System Diagram
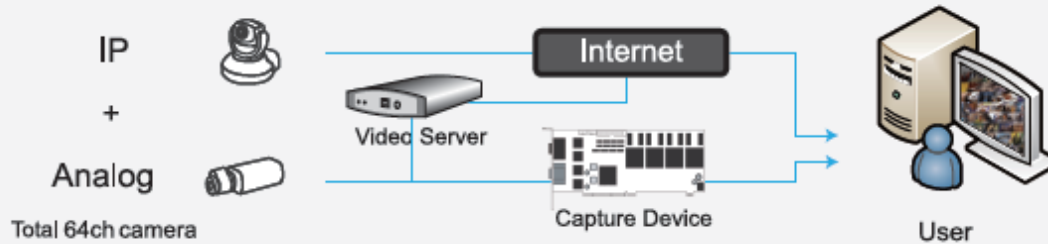
NUUO Software v3.2.21
Main Features

- Support up to 64 channels, including IP and analog cameras*
- Support Megapixel cameras (requires IP+ license)
- Triple monitor display
- Support Joystick
- E-map
- Unique GUI recording schedule
- Digital PTZ and multi-view
- User-Define presets for analog speed dome
- 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
- Remote live viewer, remote playback, remote backup, remote I/O control and remote desktop configuration
- Supported by NUUO Central Management System
- Supports 36 brands of IP cameras and more than 560 models(requires IP+ license)
- Supports 28 languages

*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/

Specifications

System, setting, management and integration:

- **Hybrid system –**The user can mix and match 64 IP and analog cameras per system.

- **Open Platform**: Supports over 560 IP cameras, megapixel cameras and video servers from 36 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 device, as well as provides you SDK to integrate access control.

- **Multi-site/Multi-server**: Multiple NDVR hybrid servers can be managed by NUUO CMS or remote live view client at a centralized monitoring station in multi-site projects.

- **Multiple Video Clients**: NUUO NDVR 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 NDVR. Preset points and patrol functions are also available on many camera models.

- **User-Define Preset:** Analog speed domes can trigger special actions such as auto-tracking, auto-iris, camera manual…etc directly from the NDVR's preset controller.

- **GUI Recording Schedule**: Intuitive GUI recording schedule featuring continuous recording, motion recording and the 6 unique event recording modes. User 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 to playback recorded video (SCB-5000 Series only supports playback system on the 2nd monitor but not live video).

- **Transcoding**: Record and live display at different frame rate and resolution.

- **Advance 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.

- **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 of the IP cameras in the network (camera must support UPnP protocol). For cameras that don't support UPnP, user 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:** The data streaming bandwidth of each remote client connection to the NDVR 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 NDVR 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. (SCB-5000 Series do not support Multi-view from the analog cameras.   All IP cameras work otherwise.)

- **Intelligent PTZ**: Joystick support on PTZ cameras and software enabled digital PTZ function are both available in NUUO NDVR.   Preset points and patrol functions are also available on many camera models.

- **Monitor Resolution**: Supports 1024x768, 1200x900, 1280x1024, and 1600x1200 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, record or even have an audio conversation through the NDVR by utilizing IP camera's microphone and speaker.

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. NDVR supports both local and remote backup to local HD, network drive and CD.

- **Log data**: Unusual event, system log, counting application, POS 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, external drive or network 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 in v3.2.0).

- **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 NDVR. 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.

- **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 16 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.

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 NDVR software (remote desktop client is installed separately).

- **3GPP Service**: NUUO NDVR 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 NDVR 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.

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

- **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

Support Language			
Bulgaria	Chinese (Simplified)	Chinese (Traditional)	Czech
Danish	English	Farsi	Finnish
French	German	Greek	Hebrew

Hungarian	Italian	Japanese	Korean
Norway	Polish	Portuguese(Brazil)	Portuguese(Portugal)
Romanian	Russian	Serbia	Slovak
Spanish	Swedish	Thai	Turkey

IP Camera Brand(s) Supported					
ACTi	Arecont	Atlantis	Axis	Basler	Cisco
Digimerge	D-Link	Dynacolor	Etrovision	EverFocus	Eyeview
Fine	HIKVision	Hitron	Icantek	IQinvision	JVC
LevelOne	Linksys	Lorex	Lumenera	Mobotix	Moxa
Panasonic(PCC)	Panasonic(PSS)	Pixord	Planet	Samsung	Sanyo
Seorim	Sony	Toshiba	Truen	Vivotek	Y-cam
Zavio					