
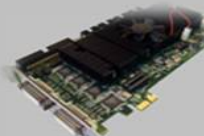


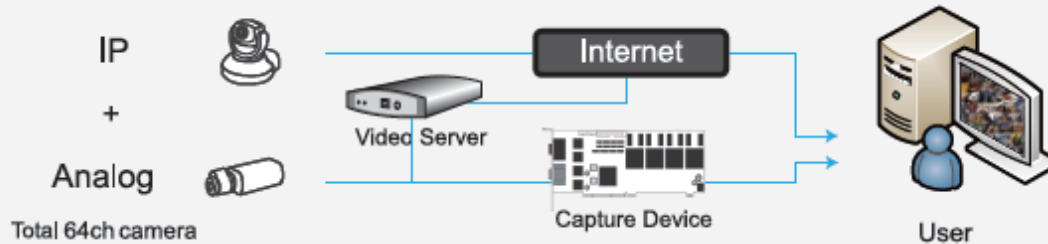


# NUUO NDVR Specification

**NUUO DVR Card Comparison Table**

NUUO DVR Card		7000 series			6000 series			3000 series			1000 series		
													
		<b>Specifications</b>											
<b>Model</b>		<b>SCB-7004</b>	<b>SCB-7008</b>	<b>SCB-7016</b>	<b>SCB-6004</b>	<b>SCB-6008</b>	<b>SCB-6016</b>	<b>SCB-3004</b>	<b>SCB-3008</b>	<b>SCB-3016</b>	<b>SCB-1004</b>	<b>SCB-1008</b>	
<b>Video Input</b>		4	8	16	4	8	16	4	8	16	4	8	
<b>Audio Input</b>		4	8	16	4	8	16	4			1		
<b>Maximum Cards</b>		4 Cards	4 Cards	2 Cards	4 Cards	4 Cards	2 Cards	2 Cards*			4 Cards*		
<b>Maximum</b>		32			32			32			32		
<b>Display Rate</b>	<b>NTSC</b>	120 fps	240 fps	480 fps	120 fps	240 fps	480 fps	120 fps			30 fps		
	<b>PAL</b>	100 fps	200 fps	400 fps	100 fps	200 fps	400 fps	100 fps			25 fps		
<b>Recording Rate</b>	<b>NTSC</b>	120 fps	240 fps	480 fps	120 fps	240 fps	480 fps	120 fps			30 fps		
	<b>PAL</b>	100 fps	200 fps	400 fps	100 fps	200 fps	400 fps	100 fps			25 fps		
<b>Recording Rate</b>	<b>NTSC</b>	120 fps	240 fps	480 fps	30 fps	60 fps	120 fps	120 fps			30 fps		
	<b>PAL</b>	100 fps	200 fps	400 fps	25 fps	50 fps	100 fps	100 fps			25 fps		
<b>Video Resolution</b>	<b>NTSC</b>	704x480; 352x240; 176x120			704x480; 352x240; 176x120			704x480 ; 640 x 480; 352x240			704x480 ; 640 x 480; 352x240		
	<b>PAL</b>	704x576; 352x288; 176x144			704x576; 352x288; 176x144			704x576 ; 640 x 576; 352x288			704x576 ; 640 x 576; 352x288		
<b>Compression Format</b>		Hardware Compression H.264			Hardware Compression H.264			Software Compression MPEG-4			Software Compression MPEG-4		
<b>Interface</b>		PCI-e x1			PCI-e x1			PCI			PCI		
<b>Available I/O Card</b>		1 Card	2 Cards	4 Cards	1 Card	2 Cards	4 Cards	4 Cards			1 Cards		
<b>Available I/O Box</b>		Support			Support			Support			Support		
<b>Hardware Watchdog</b>		Support			Support			Support			Support		
<b>Dimension (mm)</b>		167 (W)x 121 (H)	167 (W)x 121 (H)	121 216 (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)		
<b>System Minimum Requirements (per card)</b>													
<b>OS Supported</b>		Windows XP / Windows 2003 / Windows Vista/ Windows 7			Windows XP / Windows 2003 / Windows Vista/ Windows 7			Windows XP / Windows 2003 / Windows Vista/ Windows 7			Windows XP / Windows 2003 / Windows Vista/ Windows 7		
<b>CPU</b>		Intel Core 2 DuoE5300			Intel Core 2 DuoE5300			Intel Core 2 DuoE5300			Intel Core 2 DuoE5300		
<b>RAM</b>		2 GB			2 GB			2 GB			2 GB		
<b>Above RAM amount is recommendd based on one DVR card installation.</b>													
<b>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.</b>													
<b>HDD</b>		250 GB											
<b>Mother-board</b>		Intel P45 or P43 chip or above MB vendor ASUS Gigabyte or MSI with Intel Chipset recommended											
<b>Display</b>		ATI Radeon 3850/4850 nVIDIA GeForce GF-9600 or above (ATI Driver V9-2 recommended ATI Driver V10 not support)											
<b>Note</b>													
<b>Note</b>		* For stability reason we strongly recommend to apply a desktop with a system fan when using SCB-7000 series.			* For stability reason we strongly recommend to apply a desktop with a system fan when using SCB-6000 series.			* When installed two 3000 series card on one PC the system can only support 352x240(NTSC) 352x288 resolution for each .					
		** Any combination of SCB-7000 series cards and SCB-6000 series cards is possible with a limitation on the maximum 32 analog to be manage on single machine.			** Any combination of SCB-7000 series cards and SCB-6000 series cards is possible with a limitation on the maximum 32 analog to be manage on single machine.								

## System Diagram



## NUUO Software v3.3.0

### Main Features

- Support Analog and IP cameras
- Support Megapixel cameras (requires IP+ license)
- Triple monitor display
- Support Joystick
- E-map
- Instant Playback
- 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
- Up to 128CH remote live view
- Support transcode and multiple stream profile
- Remote playback, remote backup, remote I/O control and remote desktop configuration
- Supported by NUUO Central Management System
- Supports 37 brands of IP cameras and more than 700 models (requires IP+ license)
- Supports 30 languages
- Supports mobile client and I-phone browser

### Specifications

## System, setting, management and integration:

- **\*True D1 real-time analog recording:** Records up to 32 channels in D1 resolution at 30 fps. (\*SCB-7000series)
- **Open Platform:** Supports over 700 IP cameras, megapixel cameras and video servers from 37 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:** 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 to playback recorded video (SCB-5000 Series only supports playback system on the 2<sup>nd</sup> 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.

- **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. NDVR 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).
- **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 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.

- **I-Phone:** Support I-Phone browser (safari) to live view video and control PTZ function.

## 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



# NUUO NDVR Specification

NUUO 3.3.0 version

- Popup E-Map on Event

### Support Language

Bulgaria	Chinese (Simplified )	Chinese (Traditional)	Czech
Danish	<b>Dutch</b>	English	Farsi
Finnish	French	German	Greek
Hebrew	Hungarian	Italian	Japanese
Korean	Norway	Polish	Portuguese(Brazil)
Portuguese(Portugal)	Romanian	Russian	Serbia
Slovak	Slovenian	Spanish	Swedish
Thai	Turkey		

### IP Camera Brand(s) Supported

ACTi	Arecont	Atlantis	Axis	Basler	Cisco
Digimerge	D-Link	Dynacolor	ENEO	Etrovision	EverFocus
Eyeview	Fine	HIKVISION	Hitron	Icantek	IQinvision
JVC	LevelOne	Linksys	Lorex	Lumenera	Mobotix
Moxa	Panasonic	Pixord	Planet	Samsung	Sanyo
Seorim	Sony	Toshiba	Truen	Vivotek	Y-cam
Zavio					

