

# NVR7312/7316

## Corporate Megapixel RAID NVR



- Maximum 128CH Megapixel Recording (Up to 5MP or Above)
- Support 12/16-bay Hot-Swappable SATA Hard Disk
- SAS JBOD and iSCSI Storage Expansion
- Support 14x 3U 16-bay JBOD (total 240HDDs) or 5x 4U 60-bay JBOD (total 316HDDs)
- Enterprise Hardware RAID Function for Data Protection
- Cableless Design & Two Redundant Power Supplies
- Built-in Enterprise VMS & Real-Time Video Intelligence
- Support Web-based System Maintenance Tool (SurveOne)
- Scalable Client-Server Architecture

### Software Specifications

Live View	<ul style="list-style-type: none"> <li>• Real-time network camera discovery</li> <li>• Versatile views of various screen divisions</li> <li>• Multiple views supported</li> <li>• View patrolling for single or multiple views</li> <li>• Real time video/event alarm monitoring</li> <li>• Support 3 installation modes and 5 different fisheye dewarp display modes</li> <li>• Support live audio</li> </ul>	Recording Policy	<ul style="list-style-type: none"> <li>• Supports up to 128 channels megapixel recording (depends on product)</li> <li>• Continuous recording</li> <li>• Event-driven recording along with rules</li> <li>• Scheduled recording on daily or weekday basis</li> <li>• Post alarm recording 1-300 seconds</li> <li>• Pre-alarm recording 1-300 seconds</li> <li>• Support individual schedule recording</li> </ul>
eMAP	<ul style="list-style-type: none"> <li>• Drag-n-drop camera manipulation</li> <li>• Hierarchical and multiple layer map structure</li> <li>• Real time event alert</li> <li>• Instant live video of camera</li> </ul>	Rule Manager	<ul style="list-style-type: none"> <li>• Conditional recording/alert/notification</li> <li>• Email, FTP, SMS, popup window, PTZ,VI Panel, Relay output notifications</li> <li>• Sound, alarm, round-the-clock alerts</li> <li>• Support email template</li> </ul>
PTZ	<ul style="list-style-type: none"> <li>• Pan, tilt, and zoom operations (depends on camera)</li> <li>• Built-in PTZ control panel</li> <li>• Preset position (depends on camera)</li> <li>• Event-driven camera patrolling</li> <li>• Support OnScreen PTZ</li> </ul>	Remote Management	<ul style="list-style-type: none"> <li>• Remote operation &amp; management via VMS Client</li> <li>• Remote management and control via SCC &amp; SCC Client</li> </ul>
I/O	<ul style="list-style-type: none"> <li>• Digital I/O management</li> <li>• Support Ethernet Digital I/O Controller</li> </ul>	Remote Client	<ul style="list-style-type: none"> <li>• Web Client • iPhone client • Android Client</li> </ul>
Multiple Displays	<ul style="list-style-type: none"> <li>• Supports live view, playback, eMap functions (depends on product)</li> </ul>	3rd Party IPCAM	<ul style="list-style-type: none"> <li>• Support ONVIF Profile S &amp; ONVIF Scan</li> <li>• ACTi, Arecont Vision, Axis, Dahua, Dynacolor, Hikvision, IQinvision, Mobotix, Panasonic, and more</li> </ul>
Investigation	<ul style="list-style-type: none"> <li>• Search by date, time, and camera</li> <li>• Search by VI event combinations</li> <li>• Search over multiple days</li> <li>• Search over multiple cameras</li> <li>• Different colored recording indicator on calendar</li> <li>• Search via built-in VI analyzer</li> <li>• Intuitive, video thumbnail search results</li> <li>• Cue-in, cue-out and loop playback</li> <li>• Quick playback by video thumbnails</li> <li>• 1/8, 1/4, 1/2, 1x, 2x, 4x, 8x play, pause, stop</li> <li>• AVI-formatted video clip export</li> <li>• Up to 16 channel synchronized playback (depends on product)</li> <li>• Support 3 installation modes and 5 different fisheye dewarp playback display modes</li> </ul>	Storage Expansion	<ul style="list-style-type: none"> <li>• Built-in RAID storage management</li> <li>• Recording to iSCSI/NAS</li> <li>• Backup to iSCSI/NAS</li> </ul>
Video Intelligence	Yes	General & Misc.	<ul style="list-style-type: none"> <li>• Video privacy mask</li> <li>• Digital zoom in, zoom out</li> <li>• Log viewer, log export mechanism</li> <li>• Client auto login</li> <li>• Automatic storage recycling</li> <li>• Client-server architecture</li> <li>• Customized authority account management</li> <li>• Digital watermark proofing</li> <li>• Support DDNS function</li> <li>• Support time synchronization with NTP server</li> <li>• Provide System and VI setup Help assistance</li> <li>• Support Customized Event management and log mechanism</li> <li>• Auto port mapping for internet connection</li> <li>• Support batch setting IPCAM parameters</li> <li>• Support Health Check function</li> <li>• Support standby recording (Failover)</li> <li>• Support offline recording with Surveon cameras</li> <li>• Support APC SMART-UPS</li> </ul>
		Language	Support multiple language on VMS including English, Czech, Dutch, French, German, Italian, Japanese, Korean, Persian, Polski, Portuguese, Russian, Slovak, Spanish, Turkish, Simplified Chinese, Traditional Chinese



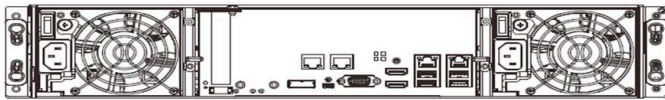
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# NVR7312/7316

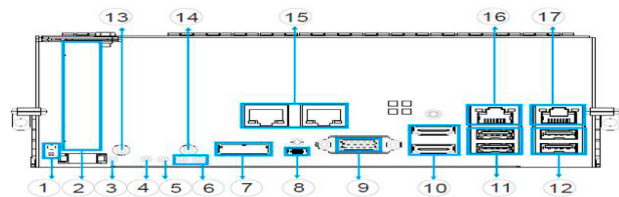
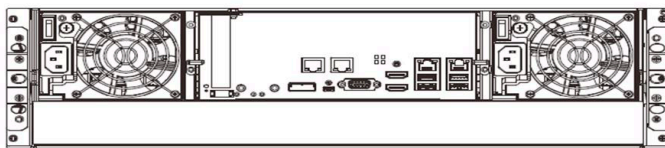
Corporate Megapixel RAID NVR

## Rear-view

NVR7312



NVR7316



1	Default reset button & LED	10	HDMI
2	PCI-E expansion	11	USB 2.0
3	Controller status LED	12	USB 3.0
4	Cache Dirty LED (type II)	13	3.5mm microphone jack
5	Host Busy LED	14	3.5mm headphone jack
6	Reserved LEDs (type I)	15	1 Gb/s Ethernet (optional)
7	6Gb/s SAS expansion	16	1 Gb/s Ethernet (support Wake On LAN)
8	miniUSB COM	17	1 Gb/s Ethernet
9	D-Sub VGA		

## Hardware Specifications

NVR7300 Series	
System Processor	Intel® Xeon E3 Quad Core 3.2GHz
System Memory	DDR3 16GB (up to 32GB)
Operating System	2.5" HDD with Linux Embedded System
Storage	12/16 x 3.5" SATAII/SATAIII hard disk drives
I/O Interface	<ul style="list-style-type: none"> <li>RJ-45 Gigabit Ethernet x2 (default), up to 4 x GbE port (optional)</li> <li>USB 2.0 x 2 (rear)</li> <li>USB 3.0 x2 (rear)</li> <li>VGA x 1, HDMI x 2 (Only support single monitor at the same time)</li> <li>Mic. In port x1</li> <li>Speaker out port x 1</li> </ul>
RAID	1, 5, 6, 1+Spare, 5+Spare, 6+Spare
Electrical	Dual Redundant PSU (460W)
Operating Environment	<ul style="list-style-type: none"> <li>Humidity: 5% to 80% (non-condensing)</li> <li>Temperature: 5° to 40°C</li> </ul>
LED Indicator	Yes
Dimensions	<ul style="list-style-type: none"> <li>NVR7312: 2U 19-inch rackmount with chassis ears: (H)88.00mm x (W)447.40mm x (L)524.41mm</li> <li>NVR7316: 3U 19-inch rackmount with chassis ears: (H)130.00mm x (W)447.40mm x (L)524.20mm</li> </ul>
Weight	<ul style="list-style-type: none"> <li>NVR7312: 13.60kg/ 29.98lbs (without HDDs)</li> <li>NVR7316: 21.54kg/ 47.49lbs (without HDDs)</li> </ul>
Certification	UL, CB, FCC/CE Class A
Warranty	3 years

## SurveOne Specifications

Browser-Based System Status Monitoring	
System Monitoring	<ul style="list-style-type: none"> <li>NVR/camera system status overview</li> <li>NVR device/network/storage real-time status monitoring</li> <li>Camera real-time status monitoring</li> </ul>
Configurations	<ul style="list-style-type: none"> <li>Easy NVR/camera configuration copy</li> <li>Easy NVR/camera configuration backup/restore</li> <li>Easy camera firmware online upgrade</li> <li>Easy multiple cameras batch setting</li> </ul>
Event Log	<ul style="list-style-type: none"> <li>NVR/camera real-time event log information</li> <li>Critical error/error/warning multi-level event classifications</li> </ul>

## Ordering Information

Model name	Description
NVR7312A1-32	32 CH, 12 Bay Megapixel H/W RAID NVR
NVR7312A1-48	48 CH, 12 Bay Megapixel H/W RAID NVR
NVR7312A1-64	64 CH, 12 Bay Megapixel H/W RAID NVR
NVR7312A1-96	96 CH, 12 Bay Megapixel H/W RAID NVR
NVR7312A1-128	128 CH, 12 Bay Megapixel H/W RAID NVR
NVR7316A1-64	64 CH, 16 Bay Megapixel H/W RAID NVR
NVR7316A1-96	96 CH, 16 Bay Megapixel H/W RAID NVR
NVR7316A1-128	128 CH, 16 Bay Megapixel H/W RAID NVR
ZCDULT-0010	SCC with Unlimited Host License
ZCD5H-0010	SCC with 5 Host License
ZCD10H-0010	SCC with 10 Host License
ZCD20H-0010	SCC with 20 Host License

## Optional Accessories

Part Number	Description
ZJOYSTICK-0050	CH Products, IP Desktop USB Joystick. 3 axes joysticks for P/T control, 12 HID buttons, USB 1.1 HID compliant, Easy to use and operate.
ZETHIOBOX-0030	Ethernet I/O Box, Ethernet Digital I/O Controller, Digital Input x6, Digital Output x3 (for VMS 2.4.8)
ZPOE08-0030	8 Port 10/100Mbps 120W PoE Switch
ZPOE26-0030	24 Port 10/100Mbps + 2 Port GBE Combo (UTP/SFP) 380W PoE Switch
H72A1XA3XXX-0030	Hitachi, Enterprise, 2TB SATA HDD, 6Gb/s
H72A2XA2XXX-0030	Hitachi, Enterprise, 3TB SATA HDD, 6Gb/s
H72A3XA3XX1-0030	Hitachi, Enterprise, 4TB SATA HDD, 6Gb/s
HSLT72A3200-00301	Toshiba, Desktop, 2TB Surveillance SATA HDD, 6Gb/s
HSLT72A3300-00301	Toshiba, Desktop, 3TB Surveillance SATA HDD, 6Gb/s
HSLT72A3400-00301	Toshiba, Desktop, 4TB Surveillance SATA HDD, 6Gb/s

\* All specifications are subject to change without notice.  
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