

NVR5316

Enterprise Megapixel RAID NVR



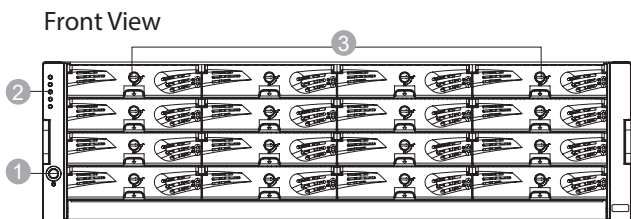
- Support 16/24/32/48/64 CH Megapixel Recording (Up to 5MP or Above)
- Scalable Client-Server Architecture
- Support 16-bay Hot-swappable SATA Hard Disk
- Built-in RAID Function for Data Protection
- Built-in Real-time Video Intelligence Detection
- Support Surveon Control Center
- Two Redundant Power Supplies

Software Specifications

Live View	<ul style="list-style-type: none"> • Real-time network camera discovery • Versatile views of various screen divisions • Multiple views supported • View patrolling for single or multiple views • Real time video/event alarm monitoring • Support 3 installation modes and 5 different fisheye dewarp display modes • Support live audio 	Recording Policy	<ul style="list-style-type: none"> • Supports up to 96 channels megapixel recording (depends on product) • Continuous recording • Event-driven recording along with rules • Scheduled recording on daily or weekday basis • Post alarm recording 1-300 seconds • Pre-alarm recording 1-300 seconds • Support individual schedule recording
eMAP	<ul style="list-style-type: none"> • Drag-n-drop camera manipulation • Hierarchical and multiple layer map structure • Real time event alert • Instant live video of camera 	Rule Manager	<ul style="list-style-type: none"> • Conditional recording/alert/notification • Email, FTP, SMS, popup window, PTZ,VI Panel, Relay output notifications • Sound, alarm, round-the-clock alerts • Support email template
PTZ	<ul style="list-style-type: none"> • Pan, tilt, and zoom operations (depends on camera) • Built-in PTZ control panel • Preset position (depends on camera) • Event-driven camera patrolling • Support OnScreen PTZ 	Remote Management	<ul style="list-style-type: none"> • Remote operation & management via VMS Client • Remote management and control via SCC & SCC Client
I/O	<ul style="list-style-type: none"> • Digital I/O management • Support Ethernet Digital I/O Controller 	Remote Client	<ul style="list-style-type: none"> • Web Client • iPhone client • Android Client
Multiple Displays	<ul style="list-style-type: none"> • Supports live view, playback, eMap functions (depends on product) 	3rd Party IPCAM	<ul style="list-style-type: none"> • ACTi, Arecont Vision, Axis, Dahua, Dynacolor, Hikvision, IQinvision, Mobotix, Panasonic, and more
Investigation	<ul style="list-style-type: none"> • Search by date, time, and camera • Search by VI event combinations • Search over multiple days • Search over multiple cameras • Different colored recording indicator on calendar • Search via built-in VI analyzer • Intuitive, video thumbnail search results • Cue-in, cue-out and loop playback • Quick playback by video thumbnails • 1/8, 1/4, 1/2, 1x, 2x, 4x, 8x play, pause, stop • AVI-formatted video clip export • Up to 16 channel synchronized playback (depends on product) • Support 3 installation modes and 5 different fisheye dewarp playback display modes 	Storage Expansion	<ul style="list-style-type: none"> • Built-in RAID storage management • Recording to iSCSI/NAS • Backup to iSCSI/NAS
Video Intelligence	<ul style="list-style-type: none"> • Yes 	General & Misc.	<ul style="list-style-type: none"> • Video privacy mask • Digital zoom in, zoom out • Log viewer, log export mechanism • Client auto login • Automatic storage recycling • Client-server architecture • Customized authority account management • Digital watermark proofing • Support DDNS function • Support time synchronization with NTP server • Provide System and VI setup Help assistance • Support Customized Event management and log mechanism • Auto port mapping for internet connection • Support batch setting IPCAM parameters • Support Health Check function • Support standby recording (Failover) • Support offline recording with Surveon cameras • Support APC SMART-UPS
		Language	<ul style="list-style-type: none"> • 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
		Supported Protocols	<ul style="list-style-type: none"> • IPv4, TCP, UDP, DHCP, NTP, DDNS, SMTP, SNMP, FTP, HTTP, UPnP, RTSP, iSCSI

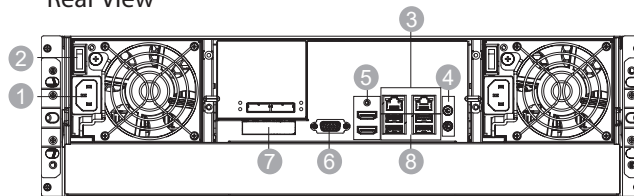
* All specifications are subject to change without notice.
 * All brand names and registered trademarks are the property of their respective owners.

Functions



- ① Power Button
- ② LED Status Indicator
- ③ HDD Status Indicator

Rear View



- ① Power Socket
- ② Power Switch
- ③ LAN Port
- ④ Line-out, Mic-in
- ⑤ HDMI Port
- ⑥ VGA Port
- ⑦ SAS Expansion Port
- ⑧ USB Port

Hardware Specifications

NVR5316 seires	
System Processor	NVR5316E1: Intel® Core i3 Dual Core 3.5GHz NVR5316A1: Intel® Xeon E3 Quad Core 3.2GHz
System Memory	DDR3 4GB (up to 32GB)
Operating System	Linux Embedded System
Storage	16 x 3.5" SATAII/SATAIII hard disk drives
I/O Interface	<ul style="list-style-type: none"> • RJ-45: 2x Gigabit Ethernet • USB: 2x USB2.0 ; 2x USB3.0 • VGA: x1, HDMI: x2 (Only support single monitor at the same time) • 16 pin for 8 in / 2 out *
RAID	Non-RAID, 1, 5, 6
Electrical	<ul style="list-style-type: none"> • Input voltage: 100VAC~240VAC, 50~60Hz, 10~5A (max) • Power Supply: Two redundant 530W
Operating Environment	<ul style="list-style-type: none"> • Humidity: 5% to 80% (non-condensing) • Temperature: 5° to 35°C
LED Indicator	Yes (Power, HDD, FAN, system fault)
Dimensions	130(H) x 448 (W) x 500(D) mm
Weight	21.54kg/ 47.49lbs (without HDDs)
Certification	UL, CB, FCC/CE Class A
Warranty	3 years

Ordering Information

Model name	Description
NVR5316E1-16	16 CH, 16 Bay Megapixel RAID NVR
NVR5316E1-24	24 CH, 16 Bay Megapixel RAID NVR
NVR5316E1-32	32 CH, 16 Bay Megapixel RAID NVR
NVR5316A1-16	16 CH, 16 Bay Megapixel RAID NVR
NVR5316A1-24	24 CH, 16 Bay Megapixel RAID NVR
NVR5316A1-32	32 CH, 16 Bay Megapixel RAID NVR
NVR5316A1-48	48 CH, 16 Bay Megapixel RAID NVR
NVR5316A1-64	64 CH, 16 Bay Megapixel 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
ZCDULT-0010	SCC with Unlimited Host License

SurveOne Specifications

Browser-Based System Status Monitoring

System Monitoring	<ul style="list-style-type: none"> NVR/camera system status overview NVR device/network/storage real-time status monitoring Camera real-time status monitoring
Configurations	<ul style="list-style-type: none"> Easy NVR/camera configuration copy Easy NVR/camera configuration backup/restore
Event Log	<ul style="list-style-type: none"> NVR/camera real-time event log information Critical error/error/warning multi-level event classifications

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

* Hard disk drives (HDD) are purchased separately. When selecting HDDs, HDD manufacturers always urge users to choose enterprise/surveillance grade drives for 24/7 surveillance operations to ensure system stability. The surveillance hard drives on our Approved Vendor List (AVL) are engineered to work continuously, withstand high-temperature fluctuations and equipment vibrations found in any typical surveillance application. To reduce errors occurred on your RAID data and the chance of the recording performance being affected, it is highly recommended to use HDDs listed on our Approved Vendor List (AVL) to ensure reliability. Find the AVL on our web page: <http://www.surveon.com/support/hardware.asp>

Performance Validation

Model	RAID Type	Stream1 Resolution	Stream1 FPS	Stream1 Bit Rate	Stream2 Resolution	Stream2 FPS	Stream2 Bit Rate	Recording Channels	Local Live View Channels	Remote Live View Channels	VI Channels
NVR5316A1	RAID 6	1920x1080	30	4mbps	320x240	30	512kbps	64	N/A	128 (64x2)	9
NVR5316A1	RAID 6	1920x1080	30	4mbps	320x240	15	512kbps	64	N/A	128 (64x2)	14
NVR5316A1	RAID 6	1920x1080	15	4mbps	320x240	15	512kbps	64	1+8 *	128 (64x2)	N/A
NVR5316A1	RAID 6	1920x1080	30	4mbps	320x240	15	512kbps	32	N/A	64 (32x2)	32
NVR5316E1	RAID 6	1920x1080	30	4mbps	320x240	30	512kbps	32	N/A	64 (32x2)	16
NVR5316E1	RAID 6	1920x1080	30	4mbps	320x240	30	512kbps	32	N/A	128 (32x4)	14
NVR5316E1	RAID 6	1920x1080	30	4mbps	320x240	15	512kbps	32	N/A	320 (32x10)	N/A
NVR5316E1	RAID 6	1920x1080	15	4mbps	320x240	15	512kbps	32	1+8 *	N/A	12
NVR5316E1	RAID 6	1920x1080	15	4mbps	320x240	15	512kbps	32	1+8 *	128 (32x4)	6
NVR5316E1	RAID 6	1920x1080	15	4mbps	320x240	15	512kbps	32	1+8 *	192 (32x6)	N/A
NVR5316E1	RAID 6	1920x1080	30	4mbps	320x240	30	512kbps	32	6x6 **	N/A	0
NVR5316E1	RAID 6	1920x1080	15	4mbps	320x240	15	512kbps	32	2x2 ***	N/A	0

* 1x Stream1 + 8x Stream2
 ** 36x Stream2
 *** 4x Stream1