NVR5412/5416

Enterprise Megapixel RAID NVR

- Maximum 96 CH Megapixel Recording (Up to 5MP or Above)
- Support 12/16-bay Hot-Swappable SATA Hard Disk
- SAS JBOD and iSCSI Storage Expansion
- NVR5412 Support 14x 2U 12-bay JBOD (total 180HDDs) or 5x 4U 60-bay JBOD (total 312HDDs)
- NVR5416 Support 14x 3U 16-bay JBOD (total 240HDDs) or 5x 4U 60-bay JBOD (total 316HDDs)
- Enterprise Hardware RAID Function for Data Protection
- Built-in Enterprise VMS & Real-Time Video Intelligence
- Support Web-based System Maintenance Tool (SurveOne)
- Scalable Client-Server Architecture

Software Specifications

Live View	• 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
eMAP	• Drag-n-drop camera manipulation • Hierarchical and multiple layer map structure • Real time event alert • Instant live video of camera
PTZ	• 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
I/O	• Digital I/O management • Support Ethernet Digital I/O Controller
Multiple Displays	• Supports live view, playback, eMap functions (depends on product)
Investigation	• 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
Video Intelligence	Yes

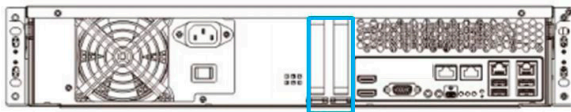|	
Recording Policy	• Supports up to 96 channels megapixel recording (depends on product) • Continuous recording • Event-driven recording along with rules • Scheduled recording on daily or weekday basis • Post alarm recording 1-300 seconds • Pre-alarm recording 1-300 seconds • Support individual schedule recording
Rule Manager	• Conditional recording/alert/notification • Email, FTP, SMS, popup window, PTZ,VI Panel, Relay output notifications • Sound, alarm, round-the-clock alerts • Support email template
Remote Management	• Remote operation & management via VMS Client • Remote management and control via SCC & SCC Client
Remote Client	• Web Client • iPhone client • Android Client
3rd Party IPCAM	• Support ONVIF Profile S & ONVIF Scan • ACTi, Arecont Vision, Axis, Dahua, Dynacolor, Hikvision, IQinvision, Mobotix, Panasonic, and more
Storage Expansion	• Built-in RAID storage management • Recording to iSCSI/NAS • Backup to iSCSI/NAS
General & Misc.	• 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	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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Surveon
Complete Megapixel Solutions

NVR5412/5416

Enterprise Megapixel RAID NVR

Rear-view

NVR5412

NVR5416
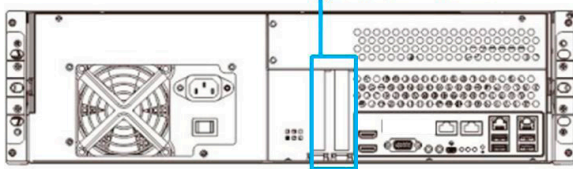
⑬ SAS HBA card port
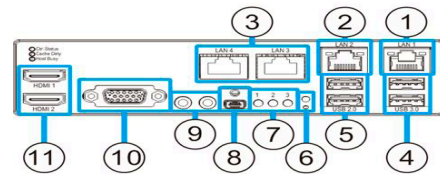
1	1x 1 Gb/s Ethernet
2	1x 1 Gb/s Ethernet (WOL)
3	2x 1 Gb/s Ethernet
4	2 x USB 3.0
5	2x USB 2.0
6	1x Reset to default button
7	3x Status LED
8	1x miniUSB (Debug only)
9	1x 3.5 mm microphone and headphone jack
10	1x D-Sub VGA (Res: 1920 x1080@60Hz)
11	2x HDMI (Res: 1920 x1080@60Hz)

Hardware Specifications

NVR5400 Series	
System Processor	Intel® Core i3 Dual Core 3.5GHz 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	• RJ-45 Gigabit Ethernet x 4 • USB 2.0 x 2 (rear) • USB 3.0 x 2 (rear) • VGA x 1, HDMI x 2 (Only support single monitor at the same time) • Mic. In port x1 • Speaker out port x 1
RAID	1, 5, 6, 1+Spare, 5+Spare, 6+Spare
Electrical	Single PSU (500 watts)
Operating Environment	• Humidity: 5% to 80% (non-condensing) • Temperature: 5º to 40ºC
LED Indicator	Yes
Dimensions	• NVR5412: 2U 19-inch rackmount with chassis ears: (H)88.00mm x (W)447.40mm x (L)524.41mm • NVR5416: 3U 19-inch rackmount with chassis ears: (H)130.00mm x (W)447.40mm x (L)524.20mm
Weight	• NVR5412: 13.60kg/ 29.98lbs (without HDDs) • NVR5416: 21.54kg/ 47.49lbs (without HDDs)
Certification	FCC/CE Class A
Warranty	3 years

SurveOne Specifications

Browser-Based System Status Monitoring	
System Monitoring	• NVR/camera system status overview • NVR device/network/storage real-time status monitoring • Camera real-time status monitoring
Configurations	• Easy NVR/camera configuration copy • Easy NVR/camera configuration backup/restore • Easy camera firmware online upgrade • Easy multiple cameras batch setting
Event Log	• NVR/camera real-time event log information • Critical error/error/warning multi-level event classifications

Ordering Information

Model name	Description
NVR5412A1-16	16 CH, 12 Bay Megapixel H/W RAID NVR
NVR5412A1-24	24 CH, 12 Bay Megapixel H/W RAID NVR
NVR5412A1-32	32 CH, 12 Bay Megapixel H/W RAID NVR
NVR5412A1-48	48 CH, 12 Bay Megapixel H/W RAID NVR
NVR5412A1-64	64 CH, 12 Bay Megapixel H/W RAID NVR
NVR5412A1-96	96 CH, 12 Bay Megapixel H/W RAID NVR
NVR5412E1-16	16 CH, 12 Bay Megapixel H/W RAID NVR
NVR5412E1-24	24 CH, 12 Bay Megapixel H/W RAID NVR
NVR5412E1-32	32 CH, 12 Bay Megapixel H/W RAID NVR
NVR5412E1-48	48 CH, 12 Bay Megapixel H/W RAID NVR
NVR5412E1-64	64 CH, 12 Bay Megapixel H/W RAID NVR
NVR5416A1-16	16 CH, 16 Bay Megapixel H/W RAID NVR
NVR5416A1-24	24 CH, 16 Bay Megapixel H/W RAID NVR
NVR5416A1-32	32 CH, 16 Bay Megapixel H/W RAID NVR
NVR5416A1-48	48 CH, 16 Bay Megapixel H/W RAID NVR
NVR5416A1-64	64 CH, 16 Bay Megapixel H/W RAID NVR
NVR5416A1-96	96 CH, 16 Bay Megapixel H/W RAID NVR
NVR5416E1-16	16 CH, 16 Bay Megapixel H/W RAID NVR
NVR5416E1-24	24 CH, 16 Bay Megapixel H/W RAID NVR
NVR5416E1-32	32 CH, 16 Bay Megapixel H/W RAID NVR
NVR5416E1-48	48 CH, 16 Bay Megapixel H/W RAID NVR
NVR5416E1-64	64 CH, 16 Bay Megapixel H/W RAID NVR

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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