



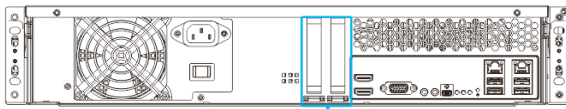
- Maximum 96 CH Megapixel Recording (Up to 5MP or Above)
- Up to 576Mbps Recording Throughput
- Support 8/12/16-bay Hot-Swappable SATA Hard Disk
- SAS JBOD and iSCSI Storage Expansion
- NVR5408A1/NVR5412A1 Support 14x 2U 12-bay JBOD (total 180HDDs) or 5x 4U 60-bay JBOD (total 312HDDs)
- NVR5416A1 Support 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

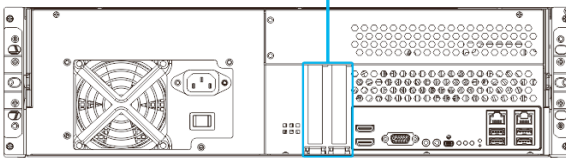
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|--------------------|---|---------------------|--|
| Live View | <ul style="list-style-type: none"> • Real-time network camera discovery • Versatile views of various screen divisions • Multiple views supported • View patrolling for single or multiple views • Real time video/event alarm monitoring • Support 3 installation modes and 5 different fisheye dewarp display modes • Support live audio | 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 |
| 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 | Remote Management | <ul style="list-style-type: none"> • Remote operation & management via VMS Client • Remote management and control via SCC & SCC Client |
| 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 Client | <ul style="list-style-type: none"> • Web Client • iPhone client • Android Client |
| I/O | <ul style="list-style-type: none"> • Digital I/O management • Support Ethernet Digital I/O Controller | 3rd Party IPCAM | <ul style="list-style-type: none"> • ACTi, Arecont Vision, Axis, Dahua, Dynacolor, Hikvision, IQinvision, Mobotix, Panasonic, and more |
| Multiple Displays | <ul style="list-style-type: none"> • Supports live view, playback, eMap functions (depends on product) | Storage Expansion | <ul style="list-style-type: none"> • Built-in RAID storage management • Recording to iSCSI/NAS • Backup to iSCSI/NAS |
| 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 | 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 |
| Video Intelligence | Yes | 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 |
| 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 | Supported Protocols | IPv4, TCP, UDP, DHCP, NTP, DDNS, SMTP, SNMP, FTP, HTTP, UPnP, RTSP, iSCSI |

Rear-view

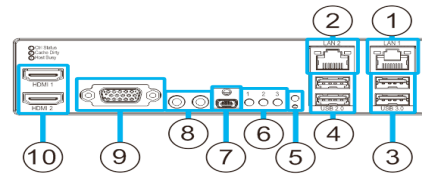
NVR5408/5412



NVR5416



11 SAS HBA card port



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

Hardware Specifications

| NVR5400 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"> RJ-45 Gigabit Ethernet x 2 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 | 0, 1, 5, 6, 10, 50, 60, 1+Spare, 5+Spare, 6+Spare |
| Electrical | Single PSU (500 watts) |
| Operating Environment | <ul style="list-style-type: none"> Humidity: 5% to 80% (non-condensing) Temperature: 5° to 40°C |
| LED Indicator | Yes |
| Dimensions | <ul style="list-style-type: none"> NVR5412A1: 2U 19-inch rackmount with chassis ears: (H)88.00mm x (W)447.40mm x (L)524.41mm NVR5416A1: 3U 19-inch rackmount with chassis ears: (H)130.00mm x (W)447.40mm x (L)524.20mm |
| Weight | <ul style="list-style-type: none"> NVR5412A1: 13.60kg/ 29.98lbs (without HDDs) NVR5416A1: 21.54kg/ 47.49lbs (without HDDs) |
| Certification | FCC/CE Class A |
| Warranty | 3 years |

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 Easy camera firmware online upgrade Easy multiple cameras batch setting |
| Event Log | <ul style="list-style-type: none"> NVR/camera real-time event log information Critical error/error/warning multi-level event classifications |

Ordering Information

| Model name | Description |
|--------------|--------------------------------------|
| NVR5408A1-32 | 32 CH, 8 Bay Megapixel H/W RAID NVR |
| NVR5408A1-48 | 48 CH, 8 Bay Megapixel H/W RAID NVR |
| NVR5408A1-64 | 64 CH, 8 Bay Megapixel H/W RAID NVR |
| 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 |
| 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 |

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 |
| HELH72A3200-00301 | Hitachi, Enterprise, 2TB SATA HDD, 6Gb/s |
| HELH72A3400-00301 | Hitachi, Enterprise, 4TB SATA HDD, 6Gb/s |
| HELH72A3600-00301 | HGST Enterprise 3.5" SATA 6Gb/s HDD, 6TB, 7200RPM |
| HELH72A3800-00301 | HGST Enterprise 3.5" SATA 6Gb/s HDD, 8TB, 7200RPM |
| HSL572A3600-00301 | Seagate Surveillance 3.5" SATA 6Gb/s HDD, 6TB |
| HSL572A3800-00301 | Seagate Surveillance 3.5" SATA 6Gb/s HDD, 8TB |