

NVR3104

16CH Megapixel RAID NVR



- Support 4/9/16 CH Megapixel Recording (Up to 5MP or Above)
- Support 4-bay SATA Hard Disk
- Support RAID 1, 5, 6 for Data Protection
- Built-in Real-Time Video Intelligence Detection
- Built-in Dual Display
- Support Surveon Control Center (SCC)
- In-House Design & Production
- 2-Year Warranty

Network Video Recorder

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"> • Support dual monitors • Supports live view, playback, eMap functions (depends on product) • Direct display to secondary monitor(s) 	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	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	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	IPv4, TCP, UDP, DHCP, NTP, DDNS, SMTP, SNMP, FTP, HTTP, UPnP, RTSP, iSCSI

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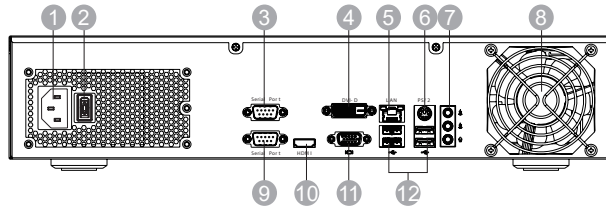
Functions

Front View



- ① Power Button
- ② HDD Status Indicator
- ③ USB Port x2

Rear View



- ① Power Socket
- ② Power Switch
- ③ Serial Port
- ④ DVI-D Port
- ⑤ LAN Port
- ⑥ PS/2KB/MS Port
- ⑨ Serial Port
- ⑩ HDMI Port
- ⑪ VGA Port
- ⑫ USB Port x4

Hardware Specifications

NVR3104 Series	
System Processor	Intel® Celeron Dual Core 1.8GHz
System Memory	DDR3 2GB (up to 4GB)
Operating System	Linux Embedded System
Storage	4 x 3.5" SATAII/SATAIII hard disk drives
I/O Interface	<ul style="list-style-type: none"> • RJ-45: 1x Gigabit Ethernet • USB: 6x USB2.0 • VGA(DVI): x1, HDMI: x1, DVI-D: x1
RAID	Non-RAID, 1, 5, 6
Electrical	<ul style="list-style-type: none"> • Input voltage: 100-240V • Power Supply: 250W
Operating Environment	<ul style="list-style-type: none"> • Humidity: 5% to 80% (non-condensing) • Temperature: 5° to 40°C
LED Indicator	Yes (Power, HDD)
Dimensions	88(H) x 430(W) x 390(D) mm
Weight	≤9kg (without HDD)
Certification	UL, CB, FCC/CE Class A
Warranty	2 years

Ordering Information

Model Name	Description
NVR3104P1-4	4 CH, 4 Bay Megapixel RAID NVR
NVR3104P1-9	9 CH, 4 Bay Megapixel RAID NVR
NVR3104P1-16	16 CH, 4 Bay Megapixel RAID NVR
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

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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
ZSlideRail27-0030	Slide Rails for NVR3xxx-xx32 Series products, for 23"~27" deep racks
ZSlideRail36-0030	Slide Rails for NVR3xxx-xx32 Series products, for 27"~36" deep racks
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/ss
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

Network Video Recorder

* 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
NVR3104	RAID 5	1920x1080	15	4mbps	320x240	15	512kbps	16	4x4 *	N/A	0

* 16x Stream2