

NVR2104 Series

Enterprise Megapixel RAID NVR



- Maximum 64 CH Megapixel Recording (up to 5MP or above)
- Enterprise-Grade RAID Subsystem
- Expandable to Maximum 448TB
- DAS and iSCSI SAN Supported
- Scalable Client-Server Architecture
- Up to 64 CH Real-time VI Detection
- Support Web-based System Maintenance Tool (SurveOne)



Software Specifications

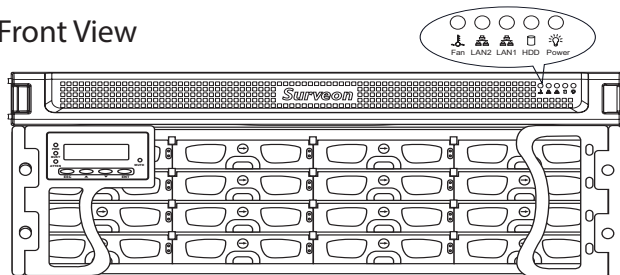
Live View	<ul style="list-style-type: none"> • Real-time network camera discovery • Versatile views of various screen divisions • HTML and image overlays • Multiple views supported • View patrolling for single or multiple views • Real time video/event alarm display • Instant playback • Video clip bookmarking • Support 3 installation modes and 5 different fisheye Dewarp display modes • Support PAP (picture in picture) Display • Support 2 way audio 	Instant Playback	<ul style="list-style-type: none"> • Supported in video alarm, event alarm, view functions • Pre-defined playback durations • Video clip bookmarking
eMAP	<ul style="list-style-type: none"> • Drag-n-drop camera manipulation • Directional camera display • Hierarchical map structure • Real time event alert • Instant live video of camera • Multiple layer maps supported 	Video Intelligence	<ul style="list-style-type: none"> • Yes
PTZ	<ul style="list-style-type: none"> • Pan, tilt, zoom operations (dependent of camera) • Built-in, floating PTZ control panel • Preset position (dependent of camera) • Scheduled or continuous camera patrolling • Event-driven camera patrolling • Support on Screen PTZ with 8 directional virtual control pad • Support CH Products USB joystick 	Recording Policy	<ul style="list-style-type: none"> • Supports up to 64 channels megapixel recording • Continuous recording • Manual recording • Event-driven recording along with rules • Scheduled recording on daily or weekday basis • Post alarm recording 5-45 minutes • Pre-alarm recording 5-45 minutes
I/O	<ul style="list-style-type: none"> • Digital I/O management • Support Ethernet I/O device 	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
Multiple Displays	<ul style="list-style-type: none"> • Up to 8 monitors • Supports live view, playback, eMap functions • Direct display to secondary monitor(s) 	Remote Management	Full functional operation & management via VMS Client
Investigation	<ul style="list-style-type: none"> • Search by date, time, camera • Search by pre-defined recent time • Search by VI event combinations • Search over multiple days • Search over multiple cameras • Frame by frame / Key frame modes playback • Video clip bookmarking and commenting • Different color display on recorded data date • Search via built-in VI analyzer • Customizable bookmark • Intuitive, video thumbnail search results • Cue-in, cue-out and repeat • Quick playback by video thumbnail • 1/8, 1/4, 1/2, 1x, 2x, 4x, 8x play, pause, stop • AVI-formatted video clip export • 4-channel synchronized playback • 5 different time interval scroll bar drag and drop playback • Support full screen playback mode • Support 3 installation modes and 5 different Fisheye Dewarp playback display modes 	Remote Client	<ul style="list-style-type: none"> • Web Client • iPhone client • Android Client
		3rd Party IPCAM	ACTi, Arecont Vision, Asoni, AVTECH, AXIS, Bosch, Brickcom, Dahua, D-Link, Dynacolor, EDIMAX, EverFocus, Hikvision, IQinvision, Lilin, Messoa, Mobotix, Panasonic, Samsung, Shany, SIMON, SONY, Sunell, Vivotek
		Storage Expansion	<ul style="list-style-type: none"> • Supports Infortrend RAID storage • Built-in RAID storage management
		General & Misc.	<ul style="list-style-type: none"> • Image enhancement • Video privacy mask • Digital zoom in, zoom out • Log viewer, log export mechanism • System lockup • Client auto login • Automatic storage recycling • Client-server architecture • Customized authority account management • Customizable appearance of Surveon logo • Configurable video retention period • Digital watermark proofing • Support DDNS Function • Support NTP Server synchronized • Support Virtual keyboard • Provide System and VI setup Help assistance • Support Customized Event management and log mechanism
		Language	<ul style="list-style-type: none"> • Multiple Language supported on VMS and Web Client: English, French, German, Portuguese, Spanish, Simple Chinese, Traditional Chinese, Italian, Japanese, Russian, Slovak, Czech, Dutch and Polish
		Supported Protocols	IPv4, TCP, UDP, DHCP, NTP, DDNS, SMTP, SNMP, FTP, HTTP, UPnP, RTSP, iSCSI

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Functions

Front View

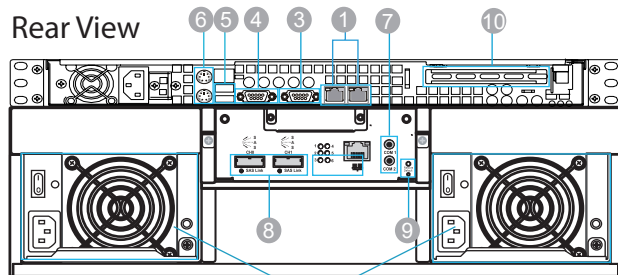


RAID Subsystem

Hardware Specifications

NVR2100 Head	
System	Client-server architecture, Chassis: 1U 19" Rack
Server Processor	Intel Core i3 @ 3.3 GHz or Intel XEON @ 3.2 GHz
System Memory	4GB, DDRIII-1333 (Up to 32GB)
Operating System	2.5" HDD with Linux Embedded System
I/O Interface	<ul style="list-style-type: none"> • PS2 Mouse port x1 • PS2 Keyboard port x1 • USB port x2 • Serial Port x1 • VGA Port x1 • RJ-45: 2x Gigabit Ethernet • SAS Expansion port (Option)
Electrical	<ul style="list-style-type: none"> • Input voltage : 100-240 V, 50-60 Hz, 4.2-1.8 Amp • Power: Single 350 watt AC power
Power Consumption	Rated output power: 350 W
Weight	Gross weight: 16.5 kg (38 lb.)
Dimensions	50.3(W)x 43.7(D)x 4.3(H) cm (19.85" x 17.2" x 1.7")
Environmental	Temperature: <ul style="list-style-type: none"> • Operating: 10° C to 35° C (50° F to 95° F) • Non-operating: -40° C to 70° C (-40° F to 158° F) Humidity: <ul style="list-style-type: none"> • Operating: 8% to 90%, non-condensing • Non-operating: 5% to 95% non-condensing
Certification	CB, FCC / CE Class A, UL60959/ IEC 60950, CCC
RAID Subsystem	
Host Connectivity	1 or 2 SAS 4x wide ports per controller
Drive Connectivity	SAS/SATA-II disk, 12 or 16 drives per system, hot swappable
Form Factor	2~3U, 19 inch rackmount
RAID Functionality	RAID 0, 1 (0+1), 3, 5, 6, 10, 30, 50, 60, hot-spare, online expansion, RAID migration, intelligent drive handling
Environmental	Operating temperature: 5° to 40°C (35°C if battery is applied) Non-operating temperature: - 40° to 60°C Humidity: 5 to 95%, non-condensing
Dimensions	12 Bay: chassis without handles: 446(W) x 88(H) x 490(D) mm; chassis with handles: 482 (W) x 88(H) x 505(D) mm 16 Bay: chassis without handles: 445(W) x 130(H) x 488.2(D) mm; chassis with handles: 482.6(W) x 131(H) x 504.3(D) mm
Weight	Gross weight : 12 Bay:25kg ; 16 Bay: 30.5kg
Certification	CE, FCC Class B, BSMI, UL, GOST-R
Warranty	3 years

Rear View



- 1 2 x Ethernet Port
- 2 Redundant Power Supply & Redundant Thermal Fan
- 3 1 x VGA Port
- 4 1 x Serial Port
- 5 2 x USB Port
- 6 PS2 Keyboard/Mouse Port
- 7 1 x 3.5mm Microphone & Headphone Jack
- 8 2 x SAS Expansion Port
- 9 Restore + Default Button
- 10 1 x PCI-E x 8 Slot

Package Content (NVR2100 Head)

Contents	Quantity
NVR2104 Series Network Video Recorder	1
Client Installation CD/DVD	1
Quick Installation Guide	1
Slide Rails	2
Slide Bracket	2
Cable Tie	2
Power Cord	2
RAID Subsystem*	1

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
BH1DLS210-0010	SAS External Card (SAS 6G HBA) for NVR21xxA1 Series, NVR21xxA2 Series
HELH72A3200-00301	HGST, Enterprise, 2TB SATA HDD, 6Gb/s
HELH72A3400-00301	HGST, Enterprise, 4TB SATA HDD, 6Gb/s
HELH72A3600-00301	HGST, Enterprise, 6TB SATA HDD, 6Gb/s
HELH72A3800-00301	HGST, Enterprise, 8TB SATA HDD, 6Gb/s
HELH72S3200-00301	HGST, Enterprise, 2TB SAS HDD, 12Gb/s
HELH72S3400-00301	HGST, Enterprise, 4TB SAS HDD, 12Gb/s
HELH72S3600-00301	HGST, Enterprise, 6TB SAS HDD, 12Gb/s
HELH72S3800-00301	HGST, Enterprise, 8TB SAS HDD, 12Gb/s
HELH72S3T10-00301	HGST, Enterprise, 10TB SAS HDD, 12Gb/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>