

Network Video Recorder NVR816-R-IM Series



Features

- Support Ultra 265/H.265/H.264 video formats
- 64/128-channel input
- Support mainstream cameras of ONVIF conformance(Profile S, Profile G, Profile T) and RTSP protocols
- Support 2-ch HDMI, 1-ch VGA, HDMI at up to 4K(3840x2160) resolution
- HDMI1, HDMI2 and VGA independent outputs provided
- Up to 12 Megapixels resolution recording
- Redundant power supply optional
- Support HDD hot swap with RAID 0, 1, 5, 6, 10, 50, 60 storage scheme configurable
- Support 2 miniSAS Interfaces
- Support 12V power output
- ANR technology to enhance the storage reliability when the network is disconnected
- Support Video Metadata
- Support cloud upgrade
- Support N+1 Hot spare

Specifications

Model	NVR816-64-R-IM-4G	NVR816-128-R-IM-8G
Decoding		
Decoding Format	Ultra 265, H.265, H.264	
Decoding Capability	Smart off: H265: 3 x 12MP@25, 5 x 4K@30, 8 x 5MP@30, 10 x 4MP@30, 13 x 3MP@30, 16 x 1080P@30, 27 x 960P@25, 32 x 720P@30, 64 x D1@30 H264: 2 x 12MP@25, 4 x 4K@30, 4 x 5MP@30, 8 x 4MP@30, 10 x 3MP@30, 16 x 1080P@30, 27 x 960P@25, 32 x 720P@30, 64 x D1@30 Smart on: When Smart by NVR on, the decoding capacity is same as Smart off.	
Decoding Capability Description	The resolution of each channel cannot exceed 4096 pixels in length or width For VGA/HDMI independent output, the VGA live video is output by default. To output the highest resolution video from the HDMI port, please clear the VGA video on the preview page.	
Audio Compression	G.711A, G.711U	
Network		
Incoming Bandwidth	512 Mbps	
Outgoing Bandwidth	512 Mbps	
Max Remote Users	128	
Protocols	TCP/IP P2P UPnP NTP DHCP PPPoE HTTP HTTPS DNS DDNS SNMP SMTP NFS RTSP 802.1x IPv6 IPv4	
Browser (Plugin)	IE10, IE11, Chrome 45+, Edge 79+, Firefox 52+	
Video/Audio Input		
IP Video Input	64-ch	
RCA Audio Input	1-ch	
Video/Audio Output		
HDMI Output	4K (3840 × 2160)/30 Hz, 1920 × 1080/60 Hz, 1920 × 1080/50 Hz, 1600 × 1200/60 Hz, 1280 × 1024/60 Hz, 1280 × 720/60 Hz, 1024 × 768/60 Hz	
VGA Output	1920 × 1080/60 Hz, 1280 × 720/60 Hz	
RCA Audio Output	1-ch	
Liveview Display	VGA:1/4/6/8/9/16/25/36, HDMI1/HDMI2:1/4/6/8/9/16/25/36/64	
Corridor Mode Screen	3/4/5/7/9/10/12/16/32	
Two-way Audio		

Two-way Audio	1-ch, RCA (Using the audio input and output)	
Snapshot		
FTP/Schedule/Event Snapshot	Full-ch snapshot (max. 4000 × 3000 video resolution, with snapshot resolution same as the video resolution)	
Recording		
Recording Resolution	12 MP/8 MP/6 MP/5 MP/4 MP/3 MP/1080P/960P/720P/D1/2CIF/CIF	
Synchronous Playback in Local	16-ch	
Smart Function		
VCA Detection by IPC	Face Detection Face Comparison Vehicle Detection SIP (Intrusion Detection, Cross Line Detection, Enter Area, Leave Area) Ultra Motion Detection (UMD) Temperature Detection (Fire Detection, Smoking Detection, Temperature Measurement, Smoke and Fire Detection) People Counting (People Flow Counting, Crowd Density Monitoring) Video Metadata Traffic Monitoring	
Smart by IPC	All channels (up to 64 images/s in total)Face Detection, Face Comparison, Vehicle Detection, Temperature Detection, SIP, UMD, Video Metadata, Traffic Monitoring	
Smart by NVR	Face Detection Face Comparison Smart Intrusion Prevention (SIP) Video Metadata (At same channel, only one smart function by NVR can be enabled simultaneously.)	
VCA Search	Face Snapshot Search Face Comparison Search Motor Vehicle Search Non-Motor Vehicle Search Human Body Search General Search People Counting Report	
face detection		
face detection by NVR	32-ch	
Search by Image	Support	
SIP		
SIP by NVR with normal cameras	32-ch	
Video Metadata		
Video Metadata by NVR with normal cameras	32-ch	
Video Metadata Type	Motor Vehicle: Vehicle Color, Vehicle Type, Vehicle Brand, Direction.	

	Non-Motor Vehicle: Non-Motor Vehicle Type, Direction, Gender, Age, Upper Garment Length. Human Body: Gender, Age, Mask, Hairstyle, Bag Style, Direction, Upper Garment Length, Lower Garment Length.	
Plate Comparison		
Vehicle Number Library	Up to 5 vehicle picture libraries, with up to 25,000 vehicle pictures in total	
Alarm		
General Alarm	Defocus Detection Scene Change Detection Object Left Behind Object Removed Auto Tracking Motion Detection Tampering Human Body Detection Video Loss Alarm Input Audio Detection	
Alert Alarm	IP Conflict Network Disconnected Disk Offline Disk Abnormal Illegal Access Hard Disk Space Low Hard Disk Full Recording/Snapshot Abnormal High CPU Temperature High Motherboard Temperature Array Damaged Array Degraded	
Hard Disk		
SATA	16 SATA Interfaces	
Capacity	Up to 16 TB for each HDD (The maximum HDD capacity varies with environment temperature)	
Disk Group	Support	
Redundant Storage	Support	
Disk Array Type	RAID 0, 1, 5, 6, 10, 50, 60	
Hot Swap	Support	
External Interface		
Network Interface	4 RJ45 10 M/100 M/1000 M self-adaptive Ethernet Interface	
USB	Front panel: 2 × USB2.0 Rear panel: 2 × USB3.0	
RS485	1	
RS232	1	
Alarm In	24-ch	
Alarm Out	8-ch	
eSATA	1	
miniSAS	2	
Power Output	12 V	
Power Supply	AC 100 to 240 V	
Power Switch	Support	

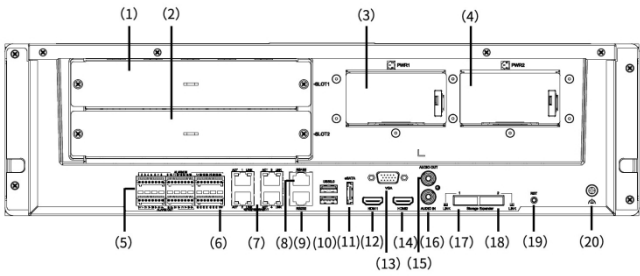
Redundant Power Supply	Support	
Working Environment		
Working Temperature	-10 °C to 50 °C (14 °F to 122 °F)	
Working Humidity	≤ 90% RH (non-condensing)	
Power Consumption (without HDD)	≤ 200W	
Dimensions		
Weight (without HDD)	≤ 12.5Kg (27.56lb)	
Height	3U	
Dimensions	482mm × 533mm × 131mm (19.0"×21.0"×5.1")	
GUI Language		
GUI Language	38 languages: Simplified Chinese, Traditional Chinese, English, Vietnamese, Thai, Turkish, Spanish (Latin America), Portuguese (Brazil), Spanish, Portuguese, French, German, Italian, Dutch, Polish, Czech, Hungarian, Slovak, Russian, Hebrew, Arabic, Ukrainian, Estonian, Bulgarian, Greek, Romanian, Danish, Swedish, Norwegian, Finnish, Croatian, Slovenia, Serbia, Korean, Japanese, Latvian, Lithuanian, Persian	
Certification		
Certification	CE; FCC; UL; RoHS; WEEE	
CE	EN 55032, EN 61000-3-3, EN IEC 61000-3-2, EN 55035	
FCC	Part15 Subpart B	

Dimensions

Aggregate product size diagram using NVR816-64-R-IM-4G as an example



Rear Panel



(1) Slot1	(2) Slot2	(3) Power Supply 1
(4) Power Supply 2(optional)	(5) Alarm In/Out	(6) 12V DC Output
(7) Network Interface	(8) RS485	(9) RS232
(10) USB3.0	(11) eSATA	(12) HDMI1 Output
(13) VGA Output	(14) HDMI2 Output	(15) Audio Output
(16) Audio Input	(17) miniSAS	(18) miniSAS
(19) RST	(20) GND	

Unlimited New View

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