Network Video Recorder

NVR816-R-IM2 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

Decoding	Description

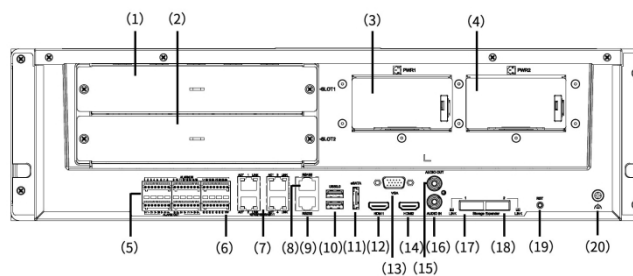|	
Decoding Format	Ultra 265, H.265, H.264
Decoding Capability	2 x 12MP@30, 4 x 4K@30, 5 x 6MP@30, 6 x 6MP@25, 7 x 5MP@25, 8 x 4MP@30, 10 x 3MP@30, 16 x 1080P@30, 36 x 720P@30, 64 x D1
Decoding Capability Description	*. The resolution of each channel cannot exceed 4096 pixels in length or width.; *. 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	Description
Incoming Bandwidth	512Mbps
Outgoing Bandwidth	512Mbps
Remote Users	128
Protocols	TCP/IP; P2P; UPnP; NTP; DHCP; PPPoE; HTTP; HTTPS; DNS; DDNS; SNMP; SMTP; NFS; 802.1x; IPv6; IPv4
Browser(Plugin)	Windows: IE (IE10/ 11), Firefox (version 52.0 and above), Chrome (version 45 and above), Edge (version 79 and above)
Video/Audio Input	Description
IP Video Input	NVR816-64-R-IM2-4G:64-ch NVR816-128-R-IM2-8G:128-ch
RCA Audio Input	1-ch
Video/Audio Output	Description
Video Output	Support 2-ch HDMI, 1-ch VGA, HDMI1 and HDMI2 and VGA independent output
HDMI Output	4K(3840x2160)/30Hz, 1920x1080/60Hz, 1920x1080/50Hz, 1600x1200/60Hz, 1280x1024/60Hz, 1280x720/60Hz, 1024x768/60Hz
VGA Output	1920x1080/60Hz, 1920x1080/50Hz, 1600x1200/60Hz, 1280x1024/60Hz, 1280x720/60Hz, 1024x768/60Hz
RCA Audio Output	1-ch
Liveview Display	VGA: 1/4/6/8/9/16/25/36; HDMI: 1/4/6/8/9/16/25/36/64
Corridor Mode Screen	3/4/5/7/9/10/12/16/32
Two-way Audio	Description
Two-way Audio	1-ch, RCA (Using the audio input and output)
Snapshot	Description
FTP/Schedule/Event Snapshot	NVR816-64-R-IM2-4G:64-ch snapshot, up to 4K resolution NVR816-128-R-IM2-8G:128-ch snapshot, up to 4K resolution

Recording	Description
Recording Resolution	12MP/8MP/6MP/5MP/4MP/3MP/1080P/960P/720P/D1/2CIF/CIF
Synchronous Playback in Local	16-ch

Smart	Description
VCA Detection by IPC	Face Detection; face detection; 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 NVR	Face Detection; face detection; Smart Intrusion Prevention (SIP); Video Metadata; (At same channel, only one smart function by NVR can be enabled simultaneously)
VCA Search	Motor Vehicle Search; Non-Motor Vehicle Search; Human Body Search; General Search; People Counting Report
Smart by IPC	All channels (up to 64 images/s in total) Face Detection, face detection, Vehicle Detection, Temperature Detection, SIP, UMD, Video Metadata, Traffic Monitoring
Search by Image	Support
Vehicle Picture Library	Up to 5 vehicle picture libraries, with up to 25,000 vehicle pictures in total
SIP by NVR	NVR816-64-R-IM2-4G:48-ch NVR816-128-R-IM2-8G:96-ch
Video Metadata by NVR	NVR816-64-R-IM2-4G:48-ch NVR816-128-R-IM2-8G:96-ch
Video Metadata Type by NVR	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, , Bag Style, Direction, Upper Garment Length, Lower Garment Length.

Alarm	Description
General Alarm	Defocus Detection; Scene Change Detection; Object Left Behind; Object Removed; Auto Tracking; Motion Detection; Tampering; Human Body Detection; Video Loss; Audio Detection; Alarm Input
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

GUI Language	Description
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
Hard Disk	Description
SATA	16 SATA Interfaces
Capacity	Up to 16TB 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	Description
Network Interface	4 RJ45 10M/100M/1000M self-adaptive Ethernet Interface
USB	Front panel: 2 x USB2.0; Rear panel: 2 x USB3.0
RS485	1
RS232	1
Alarm In	24-ch
Alarm Out	8-ch
eSATA	1
miniSAS	2
Extension Board	2
Power Output	12V
Power Supply	AC 100 ～ 240 V
Power Switch	Support
Redundant Power Supply	Support
Working Environment	Description
Working Temperature	-10 °C ~ 50 °C (14 °F ~ 122 °F)
Working Humidity	≤ 90% RH (non-condensing)
Power Consumption (without HDD)	≤200W
Dimensions	Description
Weight (without HDD)	12KG
Height	3U
Dimensions	482mm × 559mm × 131mm (19.0" × 22.0" × 5.1")

Certification	Description
Certification	CE; FCC; UL; RoHS; WEEE
CE	EN 55032, EN 61000-3-3, EN IEC 61000-3-2, EN 55035
FCC	Part15 Subpart B

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		

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