Network Video Recorder
NVR816-R-IM2 Series

Features

- Support Ultra 265/H.265/H.264 video formats
- Support 64/128-channel input
- Support 2-ch HDMI, 1-ch VGA, HDMI at up to 4K (3840x2160) resolution
- Support HDMI1, HDMI2 and VGA independent outputs provided
- Support up to 12 Megapixels resolution recording
- Support 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
- Support 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-IM2-4G	NVR816-128-R-IM2-8G
Decoding		
Decoding Format	Ultra 265, H.265, H.264	
Decoding Capability	3 x 12MP@30, 5 x 4K@30, 8 x 5MP@25, 10 x 4MP@30, 13 x 3MP@30, 20 x 1080P@30, 45 x 720P@30, 64 x D1@30	3 x 12MP@30, 5 x 4K@30, 8 x 5MP@25, 10 x 4MP@30, 13 x 3MP@30, 20 x 1080P@30, 45 x 720P@30, 96 x D1@30
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	768 Mbps	
Outgoing Bandwidth	768 Mbps	
Remote Users	128	
Protocols	TCP/IP, P2P, UPnP, NTP, DHCP, PPPoE, HTTP, HTTPS, DNS, DDNS, SNMP, SMTP, NFS, 802.1x, IPv6, IPv4	
Browser (Plugin)	IE10, IE11, Chrome 45+, Edge 79+, Firefox 52+	
Video/Audio Input		
IP Video Input	64-ch	128-ch
RCA Audio Input	1-ch	
Peripheral Input		
Ip Speaker	16-ch	
POS	All channels	
Video/Audio Output		
Video Output	Support 2-ch HDMI, 1-ch VGA, HDMI1 and HDMI2 and VGA independent 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, 1920 × 1080/50 Hz, 1600 × 1200/60 Hz, 1280 × 1024/60 Hz, 1280 × 720/60 Hz, 1024 × 768/60 Hz	
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	
Default Num of Live Screen	VGA: 1; HDMI: 64	
Corridor Mode Screen	3/4/5/7/9/10/12/16/32	
Playback Screen	1/4/9/16	
Corridor Mode Screen of Playback	1/3	
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		
Smart by IPC	All channels (up to 64 images/s in total) Face Detection, Face Comparison, Vehicle Detection (LPR), 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.)	
Smart by NVR Analyzer Mode	Mixed Mode (Face Recognition+Mixed-Traffic Dection), Single Mode (SIP), Only one mode can active at a time on eatch smart card.Different smart cards can work in different modes.	
VCA Search	Face Snapshot Search, Face Comparison Search, Motor Vehicle Search, Non-Motor Vehicle Search, Human Body Search, General Search, People Counting Report	
by NVR	All channels with UNV Face Detection Camera|Up to 48-ch with normal camera (UNV and Third-part brand, 48-ch 2MP, 24-ch 4MP, 12-ch 4K)	All channels with UNV Face Detection Camera|Up to 96-ch with normal camera (UNV and Third-part brand, 96-ch 2MP, 48-ch 4MP, 24-ch 4K)
Search by Image	Support	
SIP by NVR with normal cameras	Up to 48-ch with normal camera (UNV and Third-part brand, 48-ch 2MP, 24-ch 4MP, 12-ch 4K)	Up to 96-ch with normal camera (UNV and Third-part brand, 96-ch 2MP, 48-ch 4MP, 24-ch 4K)
Video Metadata by NVR with normal cameras	Up to 48-ch with normal camera (UNV and Third-part brand, 48-ch 2MP, 24-ch 4MP, 12-ch 4K)	Up to 96-ch with normal camera (UNV and Third-part brand, 96-ch 2MP, 48-ch 4MP, 24-ch 4K)
Video Metadata 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, Hairstyle, Bag Style, Direction, Upper Garment Length, Lower Garment Length	
Vehicle Picture Library	Up to 5 vehicle picture libraries, with up to 25,000 vehicle pictures in total	
Capacity of Snapshot Records	5 millions records for face snapshot, 3 millions records for Video metadata and SIP and Vehicle snapshot	

Alarm	
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
Num of Concurrent Processing Alarms	One every 5 seconds

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, Croatia, Slovenia, Serbia,

	Korean, Japanese, Latvian, Lithuanian, Persian
Hard Disk	
SATA	16 SATA Interfaces
Capacity	Up to 24 TB for each HDD (The maximum HDD capacity varies with environment temperature and hard disk size, The environment temperature for use should not exceed 40°C.)
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
Extension Board	2
Power Output	12 V
Buzzer	Support
Power Supply	AC 100 to 240 V
Power Switch	Support
Redundant Power Supply	Support
Working Environment	
Working Temperature	-10 ℃ to 50 ℃ (14 ℉ to 122 ℉)
Working Humidity	≤ 90% RH (non-condensing)
Power Consumption (without HDD)	≤200W
Heat Dissipation	Fan, Radiator
Dimensions	
Weight (without HDD)	12KG
Height	3U
Dimensions	482mm × 559mm × 131mm (19.0" × 22.0" × 5.1")
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
Compliance	
NDAA Compliant	Support
Feature Supported	
Cruise Lines Num of Each Camera	4

Preset Num	32
N+1 Hot Spare	Support
Fisheye Dewarping by IPC	Support
Downlink ONVIF	Support (Profile S)
NAS	Support

Dimensions
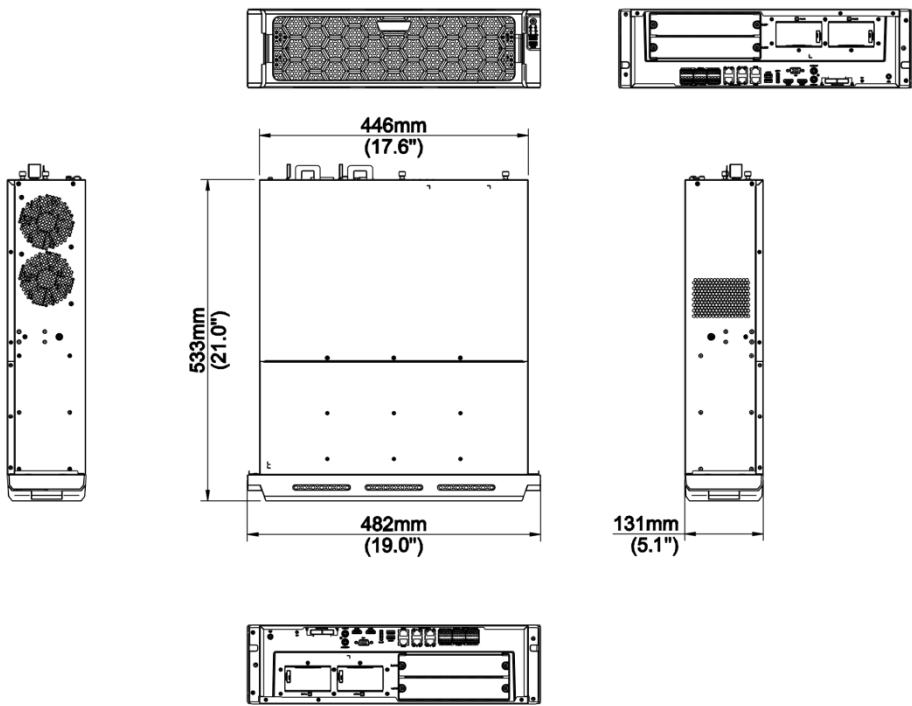
Accessories

FB-HD04-B-NB	**FB-HD07-B-NB**	**DEU1016-B**
4-ch HDMI Output Decoding Card	7-ch HDMI Output Decoding Card	16 HDDs 3U Disk Enclosure

SL-A

PWR-DC12-350A-IN

Slide Rail
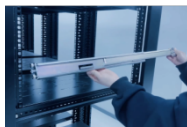
350W Power Accessories Module