Network Video Recorder
NVR516-R-IM Series

Features

- Support Ultra 265/H.265/H.264 video formats
- 64/128-channel input
- Support 2-ch HDMI, 2-ch VGA, HDMI at up to   8K (7680 × 4320)/30 Hz resolution
- HDMI1/VGA1 and HDMI2/VGA2 independent output
- Up to 32 Megapixels resolution recording
- Redundant power supply optional
- Support HDD hot swap with RAID 0, 1, 5, 6, 10, 50, 60 storage scheme configurable
- Support 1 miniSAS Interfaces and 1 eSATA Interfaces
- Support 12V power output
- ANR technology to enhance the storage reliability when the network is disconnected
- Support cloud upgrade
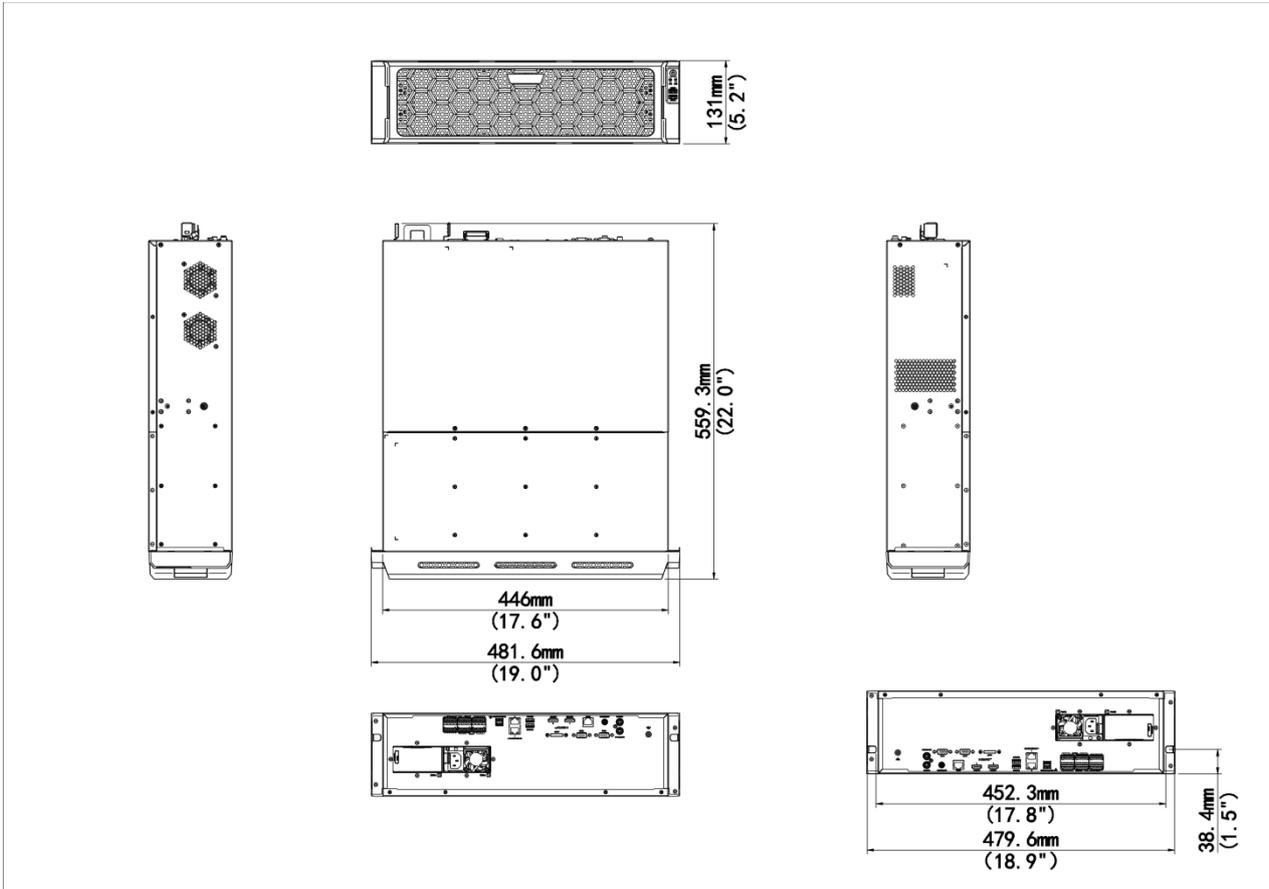- Support N+1 Hot spare

Specifications

Model	NVR516-64E-R-IM	NVR516-128E-R-IM
Decoding		
Decoding Format	Ultra 265, H.265, H.264	
Decoding Capability	Smart Off: 3 x 32MP@30, 6 x 16MP@30, 8 x 12MP@30, 12 x 4K@30, 16 x 6MP@30, 19 x 5MP@30, 24 x 4MP@30, 32 x 3MP@30, 48 x 1080P@30, 64 x 720P@30 Smart On: Smart On: When Smart by NVR on, the decoding capacity is same as Smart off.	Smart Off: 3 x 32MP@30, 6 x 16MP@30, 8 x 12MP@30, 12 x 4K@30, 19 x 5MP@30, 24 x 4MP@30, 32 x 3MP@30, 48 x 1080p@30, 96 x 720p@30, 128 x D1 Smart On: 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 8640 pixels in length or width	
Audio Compression	G.711A, G.711U	
Network		
Incoming Bandwidth	8K OFF: 768 Mbps, 8K ON: 512 Mbps	
Outgoing Bandwidth	8K OFF: 768 Mbps, 8K ON: 640 Mbps	
Remote Users	128	
Protocols	TCP/IP, SMTP, NFS, 802.1x, RTSP, UPnP, NTP, DHCP, PPPoE, HTTP, DNS, DDNS, SNMP, IPv6, IPv4, HTTPS	
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	
Video/Audio Output		
Video Output	Support 2-ch HDMI, 2-ch VGA, HDMI1 and VGA1 simultaneous output, HDMI2 and VGA2 simultaneous output, HDMI1/VGA1 and HDMI2/VGA2 independent output	
HDMI Output	HDMI1: 8K (7680 × 4320)/30 Hz, 4K (3840 2160)/60 Hz, 1920 × 1080/60 Hz, 1600 × 1200/60 Hz, 1280 × 1024/60 Hz, 1280 × 720/60 Hz, 1024 × 768/60 Hz; HDMI2: 4K (3840 × 2160)/60 Hz, 1920 × 1080/60 Hz, 1600 × 1200/60 Hz, 1280 × 1024/60 Hz, 1280 × 720/60 Hz, 1024 × 768/60 Hz	
VGA Output	1920 × 1080/60 Hz, 1600 × 1200/60 Hz, 1280 × 1024/60 Hz, 1280 × 720/60 Hz, 1024 × 768/60 Hz	
RCA Audio Output	2-ch	
Liveview Display	1/4/6/8/9/16/25/36/64	
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)	
Peripheral Input		
POS	All channels	
Ip Speaker	16-ch	

Snapshot	
FTP/Schedule/Event Snapshot	16-ch snapshot (max. 8 MP (3840 × 2160) video resolution, with 1080P snapshot resolution)
Recording	
Recording Resolution	32 MP/16 MP/12 MP/8 MP/6 MP/5 MP/4 MP/3 MP/1080P/960P/720P/D1/2CIF/CIF
Num of Concurrent Playback	32-ch
Synchronous Playback in Local	16-ch

Smart Function		
Smart by IPC	All channels (up to 16 images/s in total) Face Detection, Face Comparison, Vehicle Detection (LPR), Temperature Detection, SIP, UMD, Video Metadata, Traffic Monitoring, People Counting	
Smart by NVR	Face Detection|Face Comparison|Ultra Motion Detection (UMD)|Smart Intrusion Prevention (SIP)|Video Metadata|Plate Comparison	Face Detection|Face Comparison|Smart Intrusion Prevention (SIP)|Ultra Motion Detection (UMD)|Video Metadata|Plate Comparison
Smart by NVR Analyzer Mode	Single Mode (SIP), Single Mode (UMD), Mixed Mode (Face Recognition+Mixed-Traffic Dection+AcuSearch/AcuTrack), Modes cannot active simultaneously, only one mode can active at a time.	
VCA Search	Face Snapshot Search, Face Comparison Search, Behavior Search, Motor Vehicle Search, Non-Motor Vehicle Search, Human Body Search, General Search, People Counting Report, Heat Map, AcuSearch, AcuTrack, SmartSearch+	

AcuSearch	
Acu Search Performance	All channels with UNV SIP/UMD Camera, Up to 32-ch with normal camera (UNV and Third-part brand, 32-ch 2MP, 16-ch 4MP, 8-ch 4K)
AcuTrack	
Acu Track Performance	All channels with UNV SIP/UMD Camera, Up to 32-ch with normal camera (UNV and Third-part brand, 32-ch 2MP, 16-ch 4MP, 8-ch 4K)
SeekFree	
SeekFree Performance	N/A
SeekFree Language	N/A
by NVR	Up to 6-ch with normal camera (UNV and Third-part brand, 6-ch 2MP, 3-ch 4MP, 1-ch 4K), Up to 32-ch with UNV Face Detection Camera
Search by Image	Support

Plate Comparison		
Plate Comparion by NVR	All channels with UNV LPR Camera, normal/Third-part brand cameras not supported	
Vehicle Number Library	Up to 5 vehicle picture libraries, with up to 5,000 vehicle pictures in total	Up to 5 vehicle picture libraries, with up to 25,000 vehicle pictures in total

SIP	
SIP by NVR with normal cameras	Up to 24-ch with normal camera (UNV and Third-part brand, 24-ch 2MP, 12-ch 4MP, 6-ch 4K)
UMD	
UMD by NVR with normal cameras	Up to 32-ch with normal camera (UNV and Third-part brand, 32-ch 2MP, 16-ch 4MP, 8-ch 4K)

Video Metadata	
Video Metadata by NVR with normal cameras	Up to 6-ch with normal camera (UNV and Third-part brand, 6-ch 2MP, 3-ch 4MP, 1-ch 4K)
Video Metadata Type	Motor Vehicle: Vehicle Type, Vehicle Color, Vehicle Brand, Direction, Plate Type, Plate Color, Non-Motor Vehicle: Non-Motor Vehicle Type, Direction, Gender, Age, Upper Garment Length, Upper Garment Color, Human Body: Gender, Age, Mask, Hairstyle, Bag Style, Direction, Upper Garment Length, Lower Garment Length, Upper Garment Color, Lower Garment Color

Capacity of Smart Snapshots		
Capacity of Snapshot Records	3 millions records for face snapshot|3 millions records for SIP|3 millions records for vehicle snapshot	3 millions records for face snapshot|3 millions records for vehicle snapshot|3 millions records for SIP

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, Array Damaged, Array Degraded

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℃.)
Disk Group	Support
Redundant Storage	Support
Disk Array Type	RAID 0, 1, 5, 6, 10, 50, 60
Hot Swap	Support

External Interface	
Network Interface	2 RJ45 10 M/100 M/1000 M self-adaptive Ethernet Interface
Network Working Mode	Muli-access, load balance, network fault-tolerance
USB	Front panel: 2 × USB2.0, Rear panel: 2 × USB3.0
RS485	1
RS232	1
Alarm In	16-ch
Alarm Out	10-ch
eSATA	1
miniSAS	1
Power Output	12 V
Power Supply	AC 220 V
Power Switch	Support
Redundant Power Supply	Support
Buzzer	Support

Working Environment	
Working Temperature	-10 ℃ to 55 ℃ (14 ℉ to 131 ℉)
Working Humidity	≤ 90% RH (non-condensing)
Power Consumption (without	≤50W

HDD)	
Heat Dissipation	Fan, Radiator
Dimensions	
Weight (without HDD)	≤ 8.0Kg (17.6lb)
Height	3U
Dimensions	481.6mm × 559.3mm × 131.0mm (19.0" ×22.0" ×5.2")
Compliance	
NDAA Compliant	Support
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
Feature Supported	
Preset Num	32
N+1 Hot Spare	Support
Fisheye Dewarping by IPC	Support
Fisheye Dewarping by NVR (Local)	Support
ANR	Support
Video Image Database (Uplink)	Support
UCS (Web socket)	Support
NAS	Support
Ucode Basic Mode	Support
Ucode Advanced Mode	Support
Dual-lens Cameras	Support
Box-Dome Linkage	Support
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
Others	
Decoding Capability (1080P)	N/A

Dimensions

Unlimited New View

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