

DHI-NVR616DR-64/128-4KS2

64/128 Channel 3U 16HDDs Ultra series Network Video Recorder



Series Overview

Dahua's next generation network video recorder offers unparalleled recording technology for IP video surveillance applications. For applications where details are critical for identification, this enterprise-level NVR provides a powerful Intel processor with up to 4K resolution. Additionally, the NVR features a mouse shortcut operation menu, remote management and control, centre storage, edge storage, and back up storage.

This NVR is ideal for a wide range of applications such as public safety, transportation stations, government institutions, hotel resorts, shopping malls, city centers, and financial institutions, where demand expansion flexibility, high reliability and centralized storage management.

The NVR is compatible with numerous third-party devices making it the perfect solution for surveillance systems with or without a video management system (VMS). Its open architecture supports multi-user access and is compatible with ONVIF.

Functions

Perimeter Protection by Camera

Automatically filtering out false alarms caused by animals, rustling leaves, bright lights, etc. Enables system to act secondary recognition for the targets. Improving alarm accuracy.

SMD Plus by Camera

With intelligent algorithm, Dahua Smart Motion Detection technology can categorize the targets that trigger motion detection and filter the motion detection alarm triggered by non-concerned targets to realize effective and accurate alarm.

Video Metadata by Camera

With deep learning algorithm, Dahua Video Metadata technology can detect, track, capture vehicle, non-motor vehicle and people, and select the best images, and extract attributes.

- New 4.0 user interface
- 16-channel decoding @1080p (30 fps); self-adaptive decoding capabil ity
- Access, storage or forwarding at 384 Mbps
- Simultaneous video output for VGA and HDMI1; 4K heterogeneous output for the 2 HDMI ports
- Multiple data mode such as Raid0, Raid1, Raid5, Raid6, and Raid10
- Remote configuration and management of IPCs, such as setting pa rameters, acquiring information and upgrading IPCs of the same model in batches
- AI-by-camera functions such as perimeter protection, face detection and recognition, SMD Plus, video metadata, ANPR and 3D behavior analysis
- N+M cluster. When the host fails, the standbydevice will continue to record; once the host recovers,video recorded on the standby device will be transmitted back



ANPR by Camera

With deep learning algorithm, Dahua ANPR technology can recognize the number plate information of vehicles in the image with ANPR cameras. Support block/allowlist mode, searching target vehicles from recorded video.

Stereo Analysis by Camara

With deep learning algorithm and scene 3-dimensional information, Dahua Stereo Analysis technology can recognize people's behaviors, such as fall detection, violence detection, strand detection, and space exception, and then generates alarm signals and triggers linkage.

N+M Hot Standby

The highly reliable redundancy N+M Hot Standby design provides a secure, failover technique ensuring immediate backup. In the event of a system failure, the sub instantly takes over the main ensuring no data is lost.

RAID

Support RAID 0, RAID 1, RAID 5, RAID 6, RAID 10 (optional). It can Improve your storage speed, while ensuring data security.

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Technical Specification

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System				
Main Processor	Industrial embedded micro-processor			
Operating System	Embedded Linux			
Operation Interface	Web/local GUI			
Perimeter Protection by Camera				
Performance	24 channels			
AI Search	Search pictures by channel, time, event type			
Face Recognition by Camera				
Performance	24 channels			
Face Attributes	6 attributes: Gender, age, glasses, expression, mouth mask, and beard			
AI Search	Search pictures by channel, time and face attributes			
SMD Plus by Camera				
Performance	32 channels			
AI Search	Search by target classification (Human, Vehicle)			
Video Metadata by Camera				
Performance	12 channels			
Human Body	Top, top color, bottom, bottom color, hat, bag, gender, age, umbrella			
Vehicle	Plate No., type, color, vehicle type, logo, plate color, ornament, calling, seatbelt, region			
Non-motor Vehicle	Type, color, number of passengers, helmet			
AI Search	Support search target video by metadata			
ANPR by Camera				
Performance	8 channels			
Stereo Analysis by Camera				
Performance	32 channels			
Al Search	Search by target classification (Fall Detection, People Approach Detection, People No. Exception Detection, People Staying Detection, Violence Detection)			
Video				
Access Channel	64/128			
Network Bandwidth	384 Mbps for access, 384 Mbps for storage and 384 Mbps for forwarding			
Resolution	12 MP/8 MP/6 MP/5 MP/4 MP/3 MP/ 1080p/960p/720p/D1/CIF/QCIF			
Decoding Capability	16-ch@1080p (30 fps)			
Video Output	VGA: 1920 × 1080, 1280 × 1024, 1280 × 720 HDMI1/HDMI2: 3840 × 2160@30 fps, 3840 × 2160 @25 fps, 1920 × 1080, 1280 × 1024, 1280 × 720 1 channel VGA output, 2 channels HDMI output, VGA and HDMI 1 homologous output, double HDMI heterogeneous output. Support 4K display for both HDMI1 and HDMI2			
Multi-screen Display	1st Screen: 1/4/8/9/16/25/36/64			
Multi-screen Display	2nd Screen: 1/4/8/9/16			

2nd Screen: 1/4/8/9/16

Third Party Camera Access	Panasonic, Sony, Samsung, Axis, Pelco, Arecont, Onvif, Canon and more		
Compression			
Video	Smart H.265+/H.265/Smart H.264+/H.264/MPEG4/ MJPEG		
Audio	MP2/G726/G729/G722/G723/G711A/G711U/PCM		
Network			
Network Protocol	HTTP, HTTPS, TCP/IP, IPv4/IPv6, UPnP, SNMP, RTSP, UDP, SMTP, NTP, DHCP, DNS, IP Filter, PPPoE, DDNS, FTP, Alarm Server, IP Search (Support Dahua IP camera, DVR, NVS, etc.), P2P, iSCSI		
Mobile Phone Access	iOS, Android		
Interoperability	ONVIF (profile T/S/G), CGI, SDK		
Browser	Chrome, IE9 or later, Firefox		
Record Playback			
Multi-channel Playback	1/4/9/16		
Record Mode	Manual, Schedule (General, MD (Motion Detection), Alarm, MD & Alarm, Intelligent, POS)		
Storage Method	Local HDD and network		
Backup	Hard drive, USB device, eSATA device		
Playback Function	 Play, pause, stop, fast forward, fast backward, rewind, play by frame Full screen, backup (cut/file), partially enlarge, audio on/off 		
Storage			
Disk Group	Support		
Raid Support	RAID 0/1/5/6/10		
Alarm			
General Alarm	Motion detection, privacy masking, video loss, local alarm, PIR alarm, IPC alarm		
Anomaly Alarm	Camera offline, storage error, full storage, IP conflict, MAC conflict, login lock, network security anomaly		
Intelligent Alarm	Perimeter protection, face detection, face recognition, SMD, video metadata (human, motor-vehicle, non-motor vehicle), ANPR, people counting, stereo analysis, crowd distribution, heatmap,video quality diagnosis		
Alarm Linkage	Record, snapshot, IPC external alarm output, buzzer, log, preset, email		
External Port			
Audio Input	1 channel, RCA connector		
Audio Output	1 channel, RCA connector		
HDD	16 SATA III ports, up to 10 TB for a single HDD. The maximum HDD capacity varies with environment temperature. Supports Hot-swap.		
Alarm Input	16 channels		
Alarm Output	8 channels		
eSATA	1 eSATA		
SAS	1 Mini SAS Port, for Storage Expansion		

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RS-232	1 channel, used to debug and pass through serial data	
RS-485	1 channel, used to control PTZ, and it supports multiple protocols	
USB	2 front USB 2.0 ports, 2 rear USB 3.0 ports	
HDMI	2	
VGA	1	
Network	6 in total, 4 \times RJ45 10/100/1000 Mbps self-adaptive Ethernet ports and 2 \times 1000 Mbps optical port	
General Parameter		
Power Supply	Redundant, AC100V–240V, 50–60 Hz	
Power Consumption	< 51 W (Without HDD)	
Net Weight	19.6 kg (43.21 lb) (Without HDD)	
Gross Weight	29 kg (63.93 lb) (Without HDD)	
Product Dimensions	485 mm × 529.9 mm × 133.2 mm (W × L × H) 19.09 inch × 20.86 inch × 5.24 inch (W × L × H)	
Package Dimensions	648 mm × 723 mm × 445 mm (W × L × H) 25.51 inch × 28.46 inch × 17.52 inch (W × L × H)	
Operating Conditions	-10°C to +55°C (+14°F to +131°F), +35°C (+95°F) when raid enabled	
Storage Conditions	0°C to +40°C (+32°F to +104°F)	
Operating Humidity	10%–93% (RH)	
Storage Humidity	30%85% (RH)	
Operating Altitude	3000 m (9843 ft)	
Certifications	CE: EN55022, EN55024, EN50130-4, EN60950-1 FCC: Part 15 Subpart B, ANSI C63.4-2014 UL: UL 60950-1 and CAN/CSA C22.2 No.60950-1	

Ordering Information

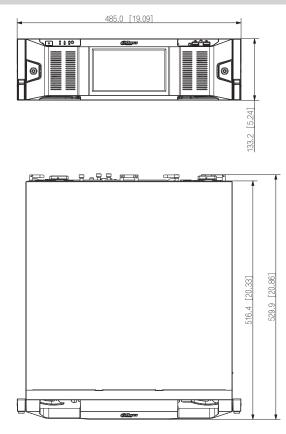
Туре	Model	Description	
64 Channel NVR	DHI-NVR616DR-64-4KS2	64 Channel Ultra Series 4K H.265 Network Video Recorder	
128 Channel NVR	DHI-NVR616DR-128-4KS2	128 Channel Ultra Series 4K H.265 Network Video Recorder	
Accessories	ESS3116S-J(R)	16 HDDs SAS Storage Cabinet	

Accessories

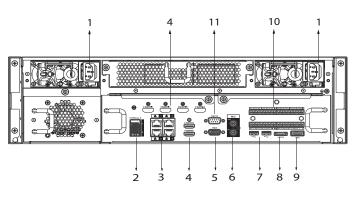


ESS3116S-J(R) 16 HDDs SAS Storage Cabinet

Dimensions (mm[inch])



Panels



1	Power	Input
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- 3 Network Ports
- 5 VGA Port
- 7 USB Ports
- 9 SAS Port
- 11 RS-232 Port

- 2 Optical Fiber Ports
- 4 HDMI Ports
- 6 AUDIO IN/OUT, RCA Connector
- 8 eSATA Port
- 10 Alarm In/Out

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