

DHI-NVR616-64/128-4KS2

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 capability
- 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
- Al-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	
Operating Interface	Web mode, 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	
Al 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 energy Diseler	1st Screen: 1/4/8/9/16/25/36/64	
Multi-screen Display	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	1. Play, pause, stop, fast forward, fast backward, rewind, play by frame 2. 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	
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 × RJ45 10/100/1000 Mbps self-adaptive Ethernet ports and 2 × 1000 Mbps optical port	

General Parameter

Power Supply	Single, AC100V–240V, 50–60 Hz	
Power Consumption	< 51 W (Without HDD)	
Net Weight	17.6 kg (38.8 lb) (Without HDD)	
Gross Weight	27 kg (59.5 lb) (Without HDD)	
Product Dimensions	485 mm × 516.5 mm × 133.2 mm (W × L × H) 19.09 inch × 20.34 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	DHI-NVR616-64-	64 Channel Ultra Series 4K H.265 Network
NVR	4KS2	Video Recorder
128 Channel	DHI-NVR616-128-	128 Channel Ultra Series 4K H.265 Network
NVR	4KS2	Video Recorder
Accessories	ESS3116S-J(R)	16 HDDs SAS Storage Cabinet

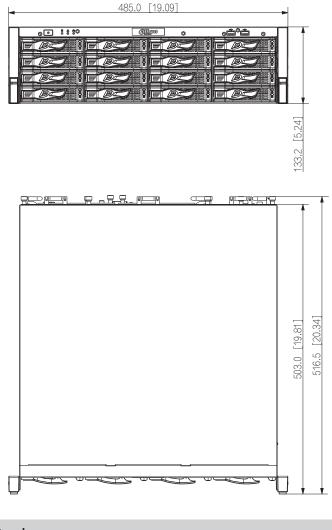
Accessories



ESS3116S-J(R) 116 HDDs SAS Storage Cabinet

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Dimensions (mm[inch])



Panels

