

# 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.

## Ultra series | DHI-NVR616-64/128-4KS2

### **Technical Specification**

System		
Main Processor	Industrial embedded micro-processor	
Operating System	Embedded LINUX	
Operating Interface	Web mode, local GUI	
Perimeter Protection by Camera		
Performance	24 channels	
Al 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	
Al Search	Search pictures by channel, time and face attributes	
SMD Plus By Camera		
Performance	32 channels	
Al Search	Search by target classification (Human, Vehicle)	
Video Motadata Ry Camora		

### Video Metadata By Camera

Multi-screen Display

12 channels		
Top, top color, bottom, bottom color, hat, bag, gender, age, umbrella		
Plate No., type, color, vehicle type, logo, plate color, ornament, calling, seatbelt, region		
Type, color, number of passengers, helmet		
Support search target video by metadata		
ANPR by Camera		
8 channels		
Stereo Analysis by Camera		
32 channels		
Search by target classification (Fall Detection, People Approach Detection, People No. Exception Detection, People Staying Detection, Violence Detection)		
64/128		
384 Mbps for access, 384 Mbps for storage and 384 Mbps for forwarding		
12 MP/8 MP/6 MP/5 MP/4 MP/3 MP/1080p/960p/720p/ D1/CIF/QCIF		
16-ch@1080p (30 fps)		
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		

1st Screen: 1/4/8/9/16/25/36/64

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			
Max. User Access	128			
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	<ol> <li>Play, pause, stop, fast forward, fast backward, rewind, play by frame</li> <li>Full screen, backup (cut/file), partially enlarge, audio on/off</li> </ol>			
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			

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eSATA	1 eSATA	
SAS	1 Mini SAS Port, for Storage Expansion	
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)

### **Ordering Information**

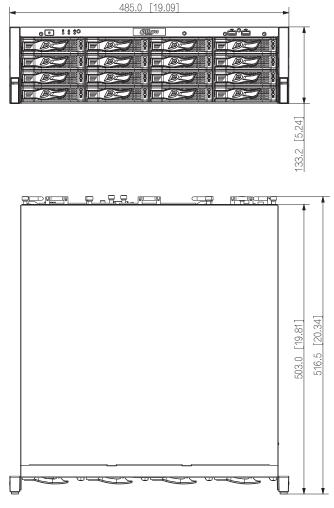
Туре	Model	Description
64 Channel	DHI-NVR616-64-	64 Channel Ultra Series 4K H.265 Network
NVR	4KS2	Video Recorder
128 Channel	DHI-NVR616-128-	128 Channel Ultra Series 4K H.265 Network
NVR	4KS2	Video Recorder
Accessories	ESS3116S-J(R)	16 HDDs SAS Storage Cabinet

### Accessories

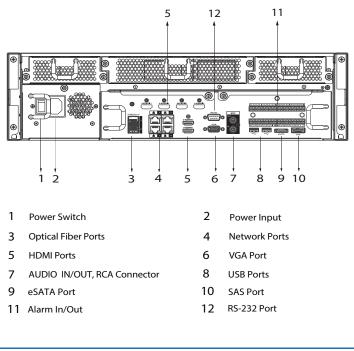


ESS3116S-J(R) 116 HDDs SAS Storage Cabinet

Dimensions (mm[inch])



### Panels



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