

DHI-NVR616-64/128-4KS2

64/128 Channel Ultra 4K H.265 Network Video Recorder



- Intel Processor
- Max 64/128 IP Camera Inputs
- Max 384Mbps Incoming Bandwidth
- Up to 12MP Resolution for Preview and Playback
- Supports RAID 0/1/5/6/10
- · iSCSI and Mini SAS for Expanded Storage Space
- Smart Tracking and Intelligent Video



4K Resolution

The NVR supports 4K ultra HD resolution (3840 x 2160) for recording, live viewing and playback.

Intelligent Video System (IVS)

With built-in intelligent video analytics, the NVR has the ability to detect and analyze moving objects for improved video surveillance. The NVR provides optional standard intelligence at the edge allowing detection of multiple object behaviors such as abandoned or missing objects. IVS also supports Tripwire analytics, allowing the camera to detect when a pre-determined line has been crossed, People Counting, ideal for business intelligence, and Facial Detection, for searching or identification of individuals.

Heat Map

The NVR's Heat Map option highlights the areas with the highest concentration of people. This information can then be exported into a customized report to assist in business or forensic analysis.

Point of Sale (POS)

Ideal for grocery and retail stores, the optional POS solution allows the NVR to receive a POS transaction via corresponding video. This feature allows merchants to analyze specific transactions via the Fuzzy search Algorithm.

Smart Tracking

The auto tracking PTZ feature automatically tracks a moving target throughout the camera's field of view. This function is ideal for following an object as it moves through airports, parking lots, city centers, or other applications.

ANR (Automatic Network Replenishment Technology)

Video record in SD card in IP cameras when the network breaks down, and after the network recovered, the video will be transferred to NVR and then recorded in it.



System 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 2.4, enabling interoperability when combined with 4K cameras.

Functions

RAID 0/1/5/6/10

Offering a balance between storage performance, storage capacity, and data integrity, the NVR features Fruitfull RAID 0/1/5/6/10 for faster and safer recording.

Fisheye Dewarping

The NVR features multiple fisheye dewarping modes to make viewing video easy whether its live or during playback.

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 slave instantly takes over the master ensuring no data is lost.

Ultra Series | DHI-NVR616-64/128-4KS2

Technical Specification

System		
Main Processor	Intel Quad-core Processor	
Operating System	Embedded LINUX	
Audio and Video		
IP Camera Input	64/128 Channel	
Two-way Talk	1 Channel Input, 1 Channel Output, RCA	
Display		
Interface	2 HDMI (up to 3840 x 2160 , Different Source), 1 VGA 4 HDMI (Optional)	
Resolution	3840 × 2160 , 1920 × 1080 , 1280 × 1024, 1280 × 720 , 1024 × 768	
Multi-screen Display	1st Screen: 1/4/8/9/16/25/36 2nd Screen: 1/4/8/9/16	
OSD	Camera title, Time, Video loss, Camera lock, Motion detection, Recording	
Recording		
Compression	H.265/H.264/MJPEG	
Resolution	12MP, 8MP, 6MP, 5MP, 4MP, 3MP, 1080P, 1.3MP, 720P etc.	
Record Rate	384Mbps	
Bit Rate	16Kbps ~ 20Mbps Per Channel	
Record Mode	Manual, Schedule (Regular, MD (Motion Detection), Alarm, IVS), Holiday, Stop	
Record Interval	1^{\sim} 120 min (default: 60 min), Pre-record: 1 $^{\sim}$ 30 sec, Post-record: 10 $^{\sim}$ 300 sec	
Video Detection and Alarm		
Trigger Events	Recording, PTZ, Tour, Alarm Out, Video Push, Email, FTP, Snapshot, Buzzer and Screen Tips	
Video Detection	Motion Detection, MD Zones: 396 (22 × 18), Video Loss and Tampering	
Alarm input	16 Channel, Low Level Effective, Green Terminal Interface	
Relay Output	8 Channel, NO/NC Programmable, Green Terminal Interface	
Tracking Trigger Event	Zoom, Tracking, Recording, Preset, Snapshot, Alarm etc.	
Playback and Backup		
Playback	128 Mbps in Raid 5 Mode; 64 Mbps in single HDD Mode	
Search Mode	Time /Date, Alarm, MD and Exact Search (accurate to second)	
Playback Function	Play, Pause, Stop, Rewind, Fast play, Slow Play, Next File, Previous File, Next Camera, Previous Camera, Full Screen, Repeat, Shuffle, Backup Selection, Digital Zoom	
Backup Mode	USB Device/Network/eSATA Device	
Third-party Support		
Third-party Support	Dahua, Arecont Vision, AXIS, Bosch, Brickcom, Canon, CP Plus, Dynacolor, Honeywell, Panasonic, Pelco, Samsung, Sanyo, Sony, Videotec, Vivotek, and more	

Network	
Interface	4 RJ-45 Ports (10/100/1000Mbps)
Ethernet Port	4 Ethernet Ports Joint Working or 4 Independent 1000Mbps Ethernet Ports
PoE	N/A
Network Function	HTTP, HTTPs, TCP/IP, IPv4/IPv6, UPnP, RTSP, UDP, SMTP, NTP, DHCP, DNS, IP Filter, PPPoE,DDNS, FTP, Alarm Server, IP Search (Support Dahua IP camera, DVR, NVS, etc.)
Optical Fiber Interface	2 Giga Optical Fiber Interface
Max. User Access	128 users
Smart Phone	iPhone, iPad, Android
Interoperability	ONVIF 2.4, CGI Conformant
Storage	
Internal HDD	16 SATA III Ports, Up to 8 TB capacity for each HDD
HDD Mode	Single, Raid 0/1/5/6/10(Enterprise-level HDDs are recommended), Support Global HDD Hot-spare
eSATA	1 eSATA Port (Please contact technical engineer to confirm the compatible device)
SAS	1 Mini SAS Port, for Storage Expansion
Auxiliary Interface	
Front Cover	Support Hot-swap
USB	4 USB Ports (2 USB 2.0 , 2 USB 3.0)
RS232	1 Port, for PC Communication and Keyboard
RS485	1 Port, for PTZ Control
Electrical	
Power Supply	AC100V ~ 240V, 50 ~ 60 Hz
Power Consumption	<51W (Without HDD)
Environmental	
Operating Conditions	-10°C ~ +55°C (+14°F ~ +131°F), 86 ~ 106kpa
Storage Conditions	-20°C ~ +70°C (-4°F ~ +158°F), 0 ~ 90% RH
Construction	
Dimensions	3U, 485mm x 512.9mm x 133.2mm (19.1" x 20.2" x 5.2")
Net Weight	17.6kg (38.8 lb) (without HDD)
Gross Weight	27kg (59.5 lb)
Installation	Rack-mounted
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

Ultra Series | DHI-NVR616-64/128-4KS2

Ordering Information

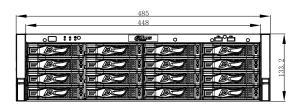
Туре	Part Number	Description
64 Channel	DHI-NVR616-64-	64 Channel Ultra 4K H.265 Network
NVR	4KS2	Video Recorder
128 Channel	DHI-NVR616-128-	128 Channel Ultra 4K H.265 Network
NVR	4KS2	Video Recorder
Accessories	ESS3116S-J(R)	16 HDDs SAS Storage Cabinet

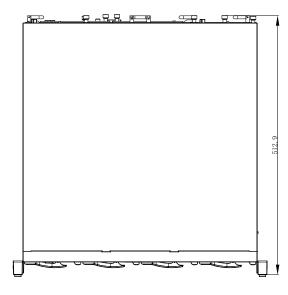
Accessories



ESS3116S-J(R)

Dimensions (mm)





```
Rev 001.001 © 2016 Dahua . All rights reserved. Design and specifications are subject to change without notice
```

