

# DHI-NVR616D-64/128-4KS2

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



## 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 0/1/5/10

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

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



#### 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.



ONVIF

Technical Specification		Network	
System		Interface	4 RJ-45 Ports (10/100/1000Mbps)
Main Processor	Intel Quad-core Processor	Ethernet Port	4 Ethernet Ports Joint Working or 4 Independent 1000Mbps Ethernet Ports
Operating System	Embedded LINUX	PoE	N/A
Audio and Video			HTTP, HTTPs, TCP/IP, IPv4/IPv6, UPnP, RTSP, UDP, SMTP, NTP, DHCP, DNS, IP Filter, PPPoE, DDNS, FTP,
IP Camera Input	64/128 Channel	Network Function	Alarm Server, IP Search (Support Dahua IP camera, DVR, NVS, etc.)
Two-way Talk	1 Channel Input, 1 Channel Output, RCA	Optical Fiber Interface	2 Giga Optical Fiber Interface
Display		Max. User Access	128 users
Interface	2 HDMI (up to 3840 $\mathrm{x}$ 2160 , Different Source), 1 VGA	Smart Phone	iPhone, iPad, Android
Resolution	3840 × 2160 , 1920 × 1080 , 1280 × 1024, 1280 × 720 , 1024 × 768	Interoperability	ONVIF 2.4, CGI Conformant
Multi-screen Display	1st Screen: 1/4/8/9/16/25/36 2nd Screen: 1/4/8/9/16	Storage	
OSD	Camera title, Time, Video loss, Camera lock, Motion	Internal HDD	16 SATA III Ports, Up to 8 TB capacity for each HDD
Recording	detection, Recording	HDD Mode	Single, Raid 0/1/5/10(Enterprise-level HDDs are recommended), Support Global HDD Hot-spare
Compression	H.265/H.264/MJPEG	eSATA	1 eSATA Port (Please contact technical engineer to confirm the compatible device)
Resolution	12MP, 8MP, 6MP, 5MP, 4MP, 3MP, 1080P, 1.3MP,	SAS	1 Mini SAS Port, for Storage Expansion
	720P etc.	Auxiliary Interface	
Record Rate Bit Rate	384Mbps  16Kbps ~ 20Mbps Per Channel	Front Cover	Support Hot-swap, 7-inch HD LCD (1920 × 1080 , 1280 × 1024, 1024 × 768)
Record Mode	Manual, Schedule (Regular, MD (Motion Detection),	USB	4 USB Ports (2 USB 2.0 , 2 USB 3.0 )
	Alarm, IVS), Holiday, Stop  1~120 min (default: 60 min), Pre-record: 1~30	RS232	1 Port, for PC Communication and Keyboard
Record Interval	sec, Post-record: 10 ~ 300 sec	RS485	1 Port, for PTZ Control
Video Detection and Alarm		Electrical	
Trigger Events	Recording, PTZ, Tour, Alarm Out, Video Push, Email, FTP, Snapshot, Buzzer and Screen Tips	Power Supply	AC100V ~ 240V, 50 ~ 60 Hz
Video Detection	Motion Detection, MD Zones: 396 (22 $\times$ 18), Video Loss and Tampering	Power Consumption	<51W (Without HDD)
Alarm input	16 Channel, Low Level Effective, Green Terminal Interface	Environmental	
Relay Output	8 Channel, NO/NC Programmable, Green Terminal Interface	Operating Conditions	-10°C~+55°C (+14°F~+131°F), 86~106kpa
Tracking Trigger Event	Zoom, Tracking, Recording, Preset, Snapshot, Alarm,	Storage Conditions	-20°C ~ +70°C (-4°F ~ +158°F), 0 ~ 90% RH
etc.		Construction	
Playback and Backup  Playback	128 Mbps in Raid 5 Mode;	Dimensions	3U, 485mm x 529.9mm x 133.2mm (19.1" x 20.9" x 5 .2")
Search Mode	64 Mbps in single HDD Mode Time /Date, Alarm, MD and Exact Search (accurate	Net Weight	18.1kg (39.9 lb) (without HDD)
Searchivioue	to second) Play, Pause, Stop, Rewind, Fast play, Slow Play, Next	Gross Weight	27.5kg (60.6 lb)
Playback Function	File, Previous File, Next Camera, Previous Camera, Full Screen, Repeat, Shuffle, Backup Selection,	Installation	Rack-mounted
Backup Mode	Digital Zoom  USB Device/Network/eSATA Device	Certifications	
Third-party Support	, , , , , , , , ,	CE	EN55022, EN55024, EN50130-4, EN60950-1
ππα-μαιτή συμμοιτ	Dahua, Arecont Vision, AXIS, Bosch, Brickcom,	FCC	Part 15 Subpart B, ANSI C63.4-2014
Third-party Support	Canon, CP Plus, Dynacolor, Honeywell, Panasonic, Pelco, Samsung, Sanyo, Sony, Videotec, Vivotek, and more	UL	UL 60950-1 and CAN/CSA C22.2 No.60950-1



Ordering Information			
Туре	Part Number	Description	
64 Channel	DHI-NVR616D-64-	64 Channel Ultra 4K H.265 Network	
NVR	4KS2	Video Recorder with LCD Monitor	
128 Channel	DHI-NVR616D-128-	128 Channel Ultra 4K H.265 Network	
NVR	4KS2	Video Recorder with LCD Monitor	

### Dimensions (mm)







