

# DHI-NVR5816/32/64-R-16P-4KS2E

16/32/64 Channel 2U 16PoE 4K&H.265 Pro Network Video Recorder



#### **System Overview**

Dahua new NVR5000-4KS2 network video recorder delivers excellent performance and high recording quality that is ideally suitable for IP video surveillance applications. This professional NVR adopts powerful processor, providing the capability of 4K resolution processing for applications where image details are highly required. Additionally, the NVR can be served as edge storage, central storage or backup storage with an intuitive shortcut operation menu for remote management and control.

Due to its easy-to-install design, the NVR is ideal for a wide range of applications such as public safety, water conservancy, transportation, city centers, education, and financial institutions.

The NVR is compatible with numerous third-party devices, which make it the perfect solution for surveillance systems that work independently of video management system (VMS). It features an open architecture that supports for multi-user access and is compatible with ONVIF 2.4 protocol, enabling interoperability 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.

#### Smart H.265+

Smart H.265+ is the optimized implementation of the H.265 codec that uses a scene-adaptive encoding strategy, dynamic GOP, dynamic ROI, flexible multi-frame reference structure and intelligent noise reduction to deliver high-quality video without straining the network. Smart H.265+ technology reduces bit rate and storage requirements by up to 70% when compared to standard H.265 video compression.

#### ePoE & EoC

The NVR supports 800m ePoE and EoC technology for use in a broad range of application scenarios. ePoE technology simplifies the network structure of long-range surveillance projects, eliminating the requirement for extra network repeater devices, making the system more reliable and easy to deploy. EoC technology makes it possible to upgrade existing systems to high definition IP surveillance while using existing coax cables.

- · Smart H.265+/H.265/Smart H.264+/H.264/MJPEG
- · Max 320Mbps Incoming Bandwidth
- Supports RAID 0/1/5/10
- Up to 12MP Resolution for Preview and Playback
- · 2HDMI/2VGA simultaneous video output
- 1-8 PoE Ports Support 800m ePoE & EoC



#### **Smart Fan**

The NVR is equipped with a smart fan to achieve high cooling efficiency. It automatically adjusts fan speed according to CPU and ambient temperature. The fan is long-lasting and low noise, reducing maintenance costs and improving the user experience.

#### **DMSS**

The DMSS app is available on the iOS App Store and Google Play. It makes surveillance easy and simple, allowing you to remotely access NVR devices, view live video, receive event push notifications, and search for recorded videos from an iPhone, iPad, or Android phone at anytime from virtually anywhere!

#### **Fisheye Dewarping**

Fisheye dewarping solves the problem of distortion in the circular panoramic view. The NVR offers various dewarping modes for different installations and configurations that enhance the video, in both live or playback modes. Each dewarping mode offers options to adjust each scene.

#### **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 blocklist/allowlist mode, searching target vehicles from recorded video.

#### 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.

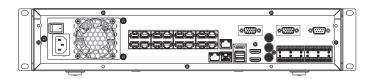
### **Automatic Network Replenishment (ANR) Technology**

Network Video Recorders with the ANR function automatically store video data on an IP camera SD card when the network is disconnected. After recovery of the network, the NVR automatically retrieves the video data stored on the camera.

Technical Specification		Network		
System		Interface	1 RJ-45 Port (10/100/1000Mbps)	
Main Processor	Quad-core embedded processor	PoE	16 ports (IEEE802.3af/at) 1-8 ports support ePoE & EoC	
Operating System	Embedded LINUX		HTTP, HTTPS, TCP/IP, IPv4/IPv6, UPnP, SNMP, RTSP,	
Audio and Video		Network Function	UDP, SMTP, NTP, DHCP, DNS, IP Filter, PPP0E,DDNS, FTP, Alarm Server, IP Search (Support Dahua IP camera, DVR, NVS, etc.), P2P	
IP Camera Input	16/32/64 Channel	Max. User Access	128 users	
Two-way Talk	1 Channel Input, 2 Channel Output, RCA	Smart Phone	iPhone, iPad, Android	
Display		Interoperability	ONVIF 2.4, SDK, CGI	
Interface	2 HDMI, 2 VGA	Storage		
Resolution	HDMI1: 3840 × 2160 , 1920 × 1080 , 1280 × 1024, 1280 × 720 , 1024 × 768	Internal HDD	8 SATA III Ports, Up to 10 TB capacity for each HDD	
	VGA1: 1920 × 1080 , 1280 × 1024, 1280 × 720 , 1024 × 768	eSATA	1 eSATA	
	HDMI2/VGA2: 1920 × 1080		Tesara	
Decoding Capability	4-ch@8MP(30fps), 16-ch@1080P(30fps)	Auxiliary Interface	ALICE Posts (2 Post LICE 2.0. 2 Front LICE 2.0.)	
	1st Screen: 16CH: 1/4/8/9/16 32CH: 1/4/8/9/16/25/36 64CH: 1/4/8/9/16/25/36/64 2nd Screen: 1/4/8/9/16	USB	4 USB Ports (2 Rear USB 3.0 , 2 Front USB 2.0 )	
Multi-screen Display		RS232	1 Port, for PC Communication and Keyboard	
		RS485	1 Port, for PTZ Control	
OSD	Camera title, Time, Camera lock, Motion detection, Recording	Electrical		
Recording		Power Supply	Single, AC100V ~ 240V, 50 ~ 60 Hz	
Compression	Smart H.265+/H.265/Smart H.264+/H.264/MJPEG 12MP, 8MP, 6MP, 5MP, 4MP, 3MP, 1080P, 1.3MP, 720P, D1 etc.	Power Consumption	NVR: <17.5W (Without HDD)	
Resolution		. over consumption	PoE: Max 25.5W for single port 150W total rated power, 80% control for protection	
Bit Rate	16Kbps ~ 20Mbps Per Channel	Fan	Smart fan, automatically adjust running speed	
Record Mode	Manual, Schedule (Regular, MD(Motion Detection) ,	Environmental		
	Alarm, IVS), Stop 1 ~ 120 min (default: 60 min), Pre-record: 1 ~ 30	Operating Conditions	-10°C ~ +55°C (+14°F ~ +131°F), 86 ~ 106kpa	
Record Interval	sec, Post-record: 10 ~ 300 sec	Storage Conditions	-20°C ~ +70°C (-4°F ~ +158°F), 0 ~ 90% RH	
Video Detection and Alarm		Construction	Construction	
Trigger Events	Recording, PTZ, Tour, Alarm Out, Video Push, Email, Snapshot, Buzzer and Screen Tips	Dimensions	2U, 440mm x 451.5mm x 95mm; (17.3" x 17.8" x 3.7")	
Video Detection	Motion Detection, MD Zones: 396 (22 × 18), Video Loss and Tampering	Net Weight	7kg (15.4 lb) (without HDD)	
Alarm input	16 Channel	Gross Weight	9.5kg (20.94 lb) (without HDD)	
Relay Output	6 Channel	Installation	Rack-mounted	
Playback and Backup		Certifications		
Sync Playback	1/4/9/16	CE	EN55032, EN55024, EN50130-4, EN60950-1	
Search Mode	Time /Date, Alarm, MD and Exact Search (accurate to second)	FCC	Part 15 Subpart B, ANSI C63.4-2014	
Playback Function	Play, Pause, Stop, Rewind, Fast play, Slow Play, Next File, Previous File, Next Camera, Previous Camera, Full Screen, Backup Selection, Digital Zoom	UL	UL 60950-1	
Backup Mode	USB Device/Network/eSATA Device			
Third-party Support				
Third-party Support	Arecont Vision, Airlive, AXIS, Canon, Dynacolor, JVC, LG, Panasonic, Pelco, PSIA, Samsung, Sanyo, Sony, Watchnet and more			

Ordering Information			
Туре	Part Number	Description	
16 Channel NVR	DHI-NVR5816-R-16P- 4KS2E	16 Channel 2U 16PoE 4K&H.265 Pro Network Video Recorder	
32 Channel NVR	DHI-NVR5832-R-16P- 4KS2E	32 Channel 2U 16PoE 4K&H.265 Pro Network Video Recorder	
64 Channel NVR	DHI-NVR5864-R-16P- 4KS2E	64 Channel 2U 16PoE 4K&H.265 Pro Network Video Recorder	
Accessories	ESS1504C	4 HDDs eSATA Storage (Please confirm with Technical Support for HDD capacity & compatibility)	

## **Rear Panel**



# Accessories



# Dimensions (mm)

