

# DHI-NVR5816-R-4KS2

16 Channel 2U 4K&H.265 Pro Network Video Recorder



- 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

















## 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.

#### **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.

#### **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**

Automatic Number Plate Recognition available for convenient entrance/ exit management. Support license plate recognition(working with Dahua ITC camera), black/white list import/export, add/delete B/W list number, search result from recorded video.

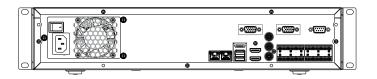
### **Automatic Network Replenishment (ANR) Technology**

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	2 RJ-45 Ports (10/100/1000Mbps) Independent or Joint Working	
Main Processor	Quad-core embedded processor	PoE	N/A	
Operating System	Embedded LINUX	Network Function	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.), Easy4IP	
Audio and Video				
IP Camera Input	16 Channel	Max. User Access	128 users	
Two-way Talk	1 Channel Input, 2 Channel Output, RCA	Software	iPhone, Web,Smart PSS,DSS;Provide DSS express	
Display		Interoperability	ONVIF 2.4, SDK, CGI,PSIA	
Interface	2 HDMI, 2 VGA		51. VIII 2. 1, 351.1, CCI,II 31.1	
Resolution	HDMI1: 3840 × 2160 , 1920 × 1080 , 1280 × 1024, 1280 × 720 , 1024 × 768	Storage 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	Auxiliary Interface	Auxiliary Interface	
Decoding Capability	4-ch@8MP(30fps), 16-ch@1080P(30fps)	USB	4 USB Ports (2 Rear USB 3.0 , 2 Front USB 2.0 ) Support HID protocol	
	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	RS232	1 Port, for PC Communication and Keyboard	
Multi-screen Display		RS485	1 Port, for PTZ Control	
OSD	Camera title, Time, Camera lock, Motion detection, Recording	Electrical	Electrical	
Recording	Necolulis	Power Supply	AC100V $^{\sim}$ 240V, 50 $^{\sim}$ 60 Hz, Power cable:Type F	
Compression	Smart H.265+/H.265/Smart H.264+/H.264/MJPEG	Power Consumption	<16.7W (Without HDD)	
	12MP, 8MP, 6MP, 5MP, 4MP, 3MP, 1080P, 1.3MP,	Fan	Smart fan, automatically adjust running speed	
Resolution	720P, D1 etc.	Environmental		
Bit Rate	16Kbps ~ 20Mbps Per Channel	Operating Conditions	-10°C ~ +55°C (+14°F ~ +131°F), 86 ~ 106kpa	
Record Mode	Manual, Schedule (Regular, MD(Motion Detection) , Alarm, IVS), Stop	Storage Conditions	-20°C ~ +70°C (-4°F ~ +158°F), 0 ~ 90% RH	
Record Interval	$1^{\sim}120$ min (default: 60 min), Pre-record: $1^{\sim}30$ sec, Post-record: $10^{\sim}300\text{sec}$	Construction		
Video Detection and Alarm		Dimensions	2U, 440mm x 451.5mm x 94.9mm ; (17.3" x 17.7" x 3.7"), Support standard 19 installation	
Trigger Events	Recording, PTZ, Tour, Alarm Out, Video Push, Email, Snapshot, Buzzer and Screen Tips	Net Weight	6.55kg (14.4 lb) (without HDD)	
Video Detection	Motion Detection, MD Zones: 396 (22 × 18), Video	Gross Weight	9.5kg (20.94 lb) (without HDD)	
Event Trigger	Loss and Tampering  Network disconnection, IP address conflict, Illegal	Installation	Rack-mounted	
Alarm in/out	Access, Storage anomaly 16/6 Channel	Certifications		
Playback and Backup	,	CE	EN55022, EN55024, EN50130-4, EN60950-1	
Sync Playback	1/4/9/16	FCC	Part 15 Subpart B, ANSI C63.4-2014	
Search Mode	Time /Date, Alarm, MD and Exact Search (accurate	UL	UL 60950-1	
Playback Function	to second)  Play, Pause, Stop, Rewind, Fast play, Slow Play, Next File, Previous File, Next Camera, Previous Camera, Full Screen, Backup Selection, Digital Zoom			
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-4KS2	16 Channel 2U 4K&H.265 Pro Network Video Recorder	
32 Channel NVR	DHI-NVR5832-R-4KS2	32 Channel 2U 4K&H.265 Pro Network Video Recorder	
64 Channel NVR	DHI-NVR5864-R-4KS2	64 Channel 2U 4K&H.265 Pro Network Video Recorder	
Accessories	DHI-NVR5864-R-4KS2	Provide 2m HDMI cable and DVD/ CD via USB	

## **Rear Panel**



# Accessories



# Dimensions (mm)

