

DHI-NVR5816/32/64-4KS2

16/32/64Channel 2U 4K&H.265 Pro Network Video Recorder (V2.00)

- Smart H.265+/H.265/Smart H.264+/H.264/MJPEG
- Max 320Mbps Incoming Bandwidth
- 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

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.

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.



Pro Series | DHI-NVR5816/32/64-4KS2

Technical Specification

System		
Main Processor	Quad-core embedded processor	
Operating System	Embedded LINUX	
Audio and Video		
IP Camera Input	16/32/64 Channel	
Two-way Talk	1 Channel Input, 2 Channel Output, RCA	
Display		
Interface	2 HDMI, 2 VGA	
Resolution	HDMI1: 3840 × 2160 , 1920 × 1080 , 1280 × 1024, 1280 × 720 , 1024 × 768	
	VGA1: 1920 × 1080 , 1280 × 1024, 1280 × 720 , 1024 × 768	
	HDMI2/VGA2: 1920 × 1080	
Decoding Capability	4-ch@8MP(30fps), 16-ch@1080P(30fps)	
Multi-screen Display	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	
OSD	Camera title, Time, Camera lock, Motion detection, Recording	
Recording		
Compression	Smart H.265+/H.265/Smart H.264+/H.264/MJPEG	
Resolution	12MP, 8MP, 6MP, 5MP, 4MP, 3MP, 1080P, 1.3MP, 720P, D1 etc.	
Bit Rate	16Kbps ~ 20Mbps Per Channel	
Record Mode	Manual, Schedule (Regular, MD(Motion Detection) , Alarm, IVS), 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		

Video Detection and Alarm

Trigger Events	Recording, PTZ, Tour, Alarm Out, Video Push, Email, Snapshot, Buzzer and Screen Tips	
Video Detection	Motion Detection, MD Zones: 396 (22 × 18), Video Loss and Tampering	
Alarm input	16 Channel	
Relay Output	6 Channel	
Playback and Backup		
Sync Playback	1/4/9/16	
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, 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	

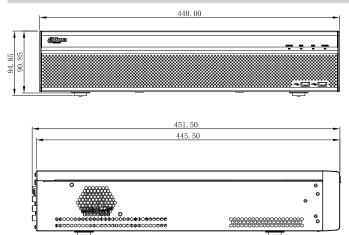
Network 2 RJ-45 Ports (10/100/1000Mbps) Interface Independent or Joint Working PoE N/A HTTP, HTTPS, TCP/IP, IPv4/IPv6, UPnP, SNMP, RTSP, UDP, SMTP, NTP, DHCP, DNS, IP Filter, PPPoE, DDNS, Network Function FTP, Alarm Server, IP Search (Support Dahua IP camera, DVR, NVS, etc.), Easy4IP 128 users Max. User Access iPhone, iPad, Android Smart Phone Interoperability ONVIF 2.4, SDK, CGI Storage Internal HDD 8 SATA III Ports, Up to 10 TB capacity for each HDD eSATA 1 eSATA Auxiliary Interface USB 4 USB Ports (2 Rear USB 3.0 , 2 Front USB 2.0) RS232 1 Port, for PC Communication and Keyboard RS485 1 Port, for PTZ Control Electrical Power Supply Single, AC100V ~ 240V, 50 ~ 60 Hz Power Consumption <16.7W (Without HDD) Fan Smart fan, automatically adjust running speed 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 2U, 440mm x 451.5mm x 94.9mm ; Dimensions (17.3" x 17.7" x 3.7") Net Weight 6.55kg (14.4 lb) (without HDD) Gross Weight 9.5kg (20.94 lb) (without HDD) Installation Rack-mounted Certifications EN55022, EN55024, EN50130-4, EN60950-1 CE FCC Part 15 Subpart B, ANSI C63.4-2014 UL UL 60950-1

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Ordering Information

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Туре	Part Number	Description
16 Channel NVR	DHI-NVR5816-4KS2	16 Channel 2U 4K&H.265 Pro Network Video Recorder
32 Channel NVR	DHI-NVR5832-4KS2	32 Channel 2U 4K&H.265 Pro Network Video Recorder
64 Channel NVR	DHI-NVR5864-4KS2	64 Channel 2U 4K&H.265 Pro Network Video Recorder
Accessories	ESS1504C	4 HDDs eSATA Storage (Please confirm with Technical Support for HDD capacity & compatibility)

Dimensions (mm)

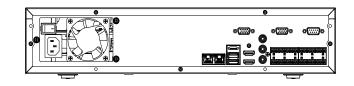


Rear Panel

Accessories



ESS1504C



ahua