

DHI-NVR4816/4832-16P-4KS2

16/32 Channel 2U 8HDDs 16PoE 4K & H.265 Lite Network Video Recorder



Dahua's new NVR4000-4KS2 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.

Series Overview

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 multi-user access and is compatible with ONVIF 2.4 protocol, enabling interoperability with 4K cameras.

Functions

Perimeter Protection by Camera

Automatically filters out false alarms caused by animals, rustling leaves, bright lights, and more. Enables system to act secondary recognition for the targets. Improving alarm accuracy.

SMD Plus by Camera

With intelligent algorithm, Dahua smart motion detection technology can categorize the targets that trigger motion detection and filter the motion detection alarm triggered by non-concerned targets to realize effective and accurate alarm.

People Counting by Camera

With deep learning algorithm, Dahua People Counting technology can track and process moving human body targets to realize the accurate statistics of enter No., leave No., and In Area No. Working with management platform, it outputs yearly/monthly/weekly/daily reports to meet your requirements.

- · 16/32-channel IP video access
- Smart H.265+/Smart H.264+/H.265/H.264; H.265 auto switch
- · Max 200 Mbps incoming bandwidth
- Up to 8MP resolution for preview and playback
- · 8-channel decoding@1080p (30 fps)
- Al by Camera: Perimeter protection; SMD Plus; people counting; heat man
- · Support IPC UPnP, 16 PoE ports











Smart Codec

With advanced scene-adaptive rate control algorithm, Dahua smart codec technology realizes the higher encoding efficiency than H.265 and H.264, provides high-quality video, and reduces the cost of storage and transmission.

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 device and then recorded in it.

DMSS

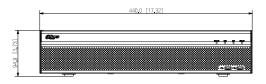
The DMSS app is available on the iOS App Store and Google Play. It makes surveillance easy and simple, allowing you to remotely access back-end devices, view live video, receive event push notifications, and search for recorded videos from an iPhone, iPad, or Android phone at anytime from virtually anywhere.

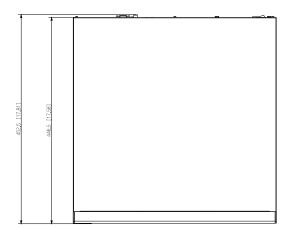
Technical Specification		Storage	
System		Disk Group	Yes
Main Processor	Industrial embedded micro-processor	Alarm	
Operating System	Embedded Linux	General Alarm	Motion detection; privacy masking; video loss; PIR alarm; IPC alarm
Operation Interface Perimeter Protection I	Web; local GUI	Anomaly Alarm	Camera offline; storage error; full storage; IP conflict; MAC conflict; login lock; network security anomaly
Performance	16 channels	Intelligent Alarm	Perimeter protection; SMD; people counting; heat
AI Search	Search for pictures by channel, time and event type	_	Record; snapshot; IPC external alarm output;
SMD Plus by Camera		Alarm Linkage	buzzer; log; preset; email
Performance	16/32 channels	External Port	
Al Search	Search by target classification (human, vehicle)	Audio Input	1 channel, RCA connector
Video		Audio Output	1 channel, RCA connector, which support voice intercom output
Access Channel	16/32	HDD	8 SATA III ports, up to 10 TB for a single HDD. The maximum HDD capacity varies with environment temperature
Network Bandwidth	200 Mbps for access, 200 Mbps for storage and 96 Mbps for forwarding	Alarm Input	16 channels
Resolution	$8 {\rm MP}, 6 {\rm MP}, 5 {\rm MP}, 4 {\rm MP}, 3 {\rm MP}, 1080 {\rm p}, 1.3 {\rm MP}, 720 {\rm p}, D1,$ and more	Alarm Output	4 channels
Decoding Capability	8 channels@1080p (30 fps)	eSATA	1
Video Output	HDMI: 3840 × 2160; 1920 × 1080; 1280 × 1024; 1280 × 720	RS-232	1 channel, used to debug and pass through serial data
Mark's and an Display	VGA: 1920 × 1080; 1280 × 1024; 1280 × 720 16-channel: 1/4/8/9/16	RS-485	1 channel, used to control PTZ, and it supports multiple protocols
Multi-screen Display	32-channel: 1/4/8/9/16/25/36	USB	2 front USB 2.0 ports, 1 rear USB 3.0 port
Third Party Camera Access	Panasonic, Sony, Samsung, Axis, Pelco, Arecont, ONVIF, Canon and more	HDMI	1
Compression		VGA	1
Video	Smart H.265+; Smart H.264+; H.265; H.264	Network	1 RJ-45 10/100/1000 Mbps self-adaptive Ethernet port
Audio	PCM; G.711A; G.711U; G.726	PoE	16 ports (IEEE802.3af/at)
Network		General Parameter	
	HTTP; HTTPS; TCP/IP; IPv4/IPv6; UPnP; SNMP; RTSP; UDP; SMTP; NTP; DHCP; DNS; IP Filter; DDNS; FTP; Alarm Server; IP Search (supports Dahua IP camera, DVR, NVS, and more); P2P	Power Supply	Single, 100V–240V AC, 50 Hz–60 Hz
Network Protocol		Power Consumption	NVR: < 13.7W (without HDD) PoE: Max 25.5W for single port, 150W in total
Mobile Phone Access	Android; iOS	Net Weight	5.4 kg (11.9 lb) (without HDD)
Interoperability	ONVIF (profile T/S/G); CGI; SDK	Gross Weight	9.5 kg (20.9 lb) (without HDD)
Browser	Chrome; IE9 or later; Firefox	Product Dimensions	440.0 mm × 452.5 mm × 94.9 mm (17.3" × 17.8" × 3.7")
Record Playback		Package Dimensions	563 mm × 563 mm × 215 mm (22.2" × 22.2" × 8.5")
Multi-channel Playback	1/4/9/16	Operating Temperature	-10°C to +55°C (+14°F to +131°F)
Record Mode	Manual; schedule (general; MD; alarm; MD & alarm; intelligent)	Storage Temperature	0°C to +40°C (+32°F to +104°F)
Storage Method	Local HDD and network	Operating Humidity	10%-93% (RH)
Backup	USB device	Storage Humidity	30%-85% (RH)
	1. Play; pause; stop; fast forward; fast backward;	Operating Altitude	3,000 m (9,843 ft)
Playback Function	rewind; play by frame 2. Full screen; backup (cut/file); partially enlarge; audio on/off	Certifications	CE: EN55032; EN55024; EN50130-4; EN60950-1 FCC: Part 15 Subpart B; ANSI C63.4-2014 UL: UL 60950-1

Pro Series | DHI-NVR4816/4832-16P-4KS2

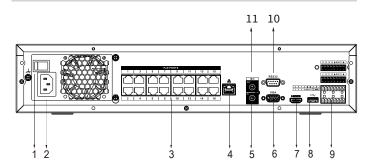
Ordering Information			
Туре	Model	Description	
16 Channel NVR	DHI-NVR4816-16P- 4KS2	16 Channel 2U 16PoE 4K & H.265 Lite Network Video Recorder	
32 Channel NVR	DHI-NVR4832-16P- 4KS2	32 Channel 2U 16PoE 4K & H.265 Lite Network Video Recorder	

Dimensions (mm[inch])





Panels



- 1 Power Switch
- 3 PoE Ports
- 5 AUDIO IN, RCA Connector
- 7 HDMI Port
- 9 Alarm In/Out
- 11 AUDIO OUT, RCA Connector
- 2 Power Input
- 4 Network Port
- 6 VGA Port
- 3 USB Port
- 10 RS-232 Port