

DHI-NVR604-16/32/64-4K

16/32/64 Channel 1.5U 4HDDs 4K & H.265 Pro Network Video Recorder



Dahua's 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

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.

Face Recognition by Camera

Dahua face recognition technology extracts the features of captured faces and compares them with that in face database to recognize the person identity.

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.

Video Metadata by Camera

With deep learning algorithm, Dahua video metadata technology can detect, track, capture vehicle, non-motor vehicle and people, and select the best images. and extract attributes.

- · 16/32/64-channel IP video access
- Smart H.265+/Smart H.264+/H.265/H.264/MJPEG; H.265 auto switch
- · Max 320 Mbps incoming bandwidth
- Up to 24MP resolution for live view and playback
- 1-channel fisheye dewarping (AI by NVR)
- Al by Camera: Perimeter protection; face detection and recognition;
 SMD Plus; video metadata; ANPR; people counting; stereo analysis;
 crowd distribution; heat map



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 block/allowlist mode, searching target vehicles from recorded video.

Fisheye Dewarping

Fisheye dewarping solves the problem of distortion in the circular panoramic view. The device 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.

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.

Stereo Analysis by Camara

With deep learning algorithm and scene 3-dimensional information, Dahua stereo analysis technology can recognize people's behaviors, such as fall detection, violence detection, strand detection, and space exception, and then generates alarm signals and triggers linkage.

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.

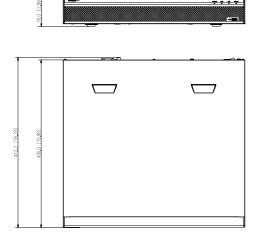
Technical Specification		Third Party Camera Access	Panasonic, Sony, Samsung, Axis, Pelco, Arecont, ONVIF, Canon and more	
System		Compression	Compression	
Main Processor	Industrial embedded micro-processor	Video	Smart H.265+; Smart H.264+; H.265; H.264; MJPEG	
Operating System	Embedded Linux	Audio	PCM; G.711A; G.711U; G.726	
Operation Interface	Web; local GUI	Network		
Perimeter Protection by Camera			HTTP; HTTPS; TCP/IP; IPv4/IPv6; UPnP; SNMP; RTSP;	
Performance	16/20/20 channels	Network Protocol	UDP; SMTP; NTP; DHCP; DNS; IP Filter; PPPoE; DDNS; FTP; Alarm Server; IP Search (Supports Dahua IP camera, DVR, NVS, and more.); P2P	
Al Search	Search for pictures by channel, time and event type	Mobile Phone Access	Android; iOS	
Face Recognition by Camera		Interoperability	ONVIF (profile T/S/G); CGI; SDK	
Performance	14 channels	Browser	Chrome; IE9 or later; Firefox	
Face Attributes	6 attributes: Gender; age; glasses; expression; mouth mask; beard	Record Playback		
Al Search	Search for pictures by channel, time and face		1/4/9/16	
attributes		Multi-channel Playback	Manual; schedule (general; MD; alarm; MD & alarm;	
SMD Plus by Camera	16/22/64 sharrada	Record Mode	intelligent; POS)	
Performance	16/32/64 channels	Storage Method	Local HDD and network	
Al Search	Search by target classification (human, vehicle)	Backup	USB device	
Video Metadata by Cam	era		Play; pause; stop; fast forward; fast backward; rewind; play by frame Full screen; backup (cut/file); partially enlarge; audio on/off	
Performance	16 channels	Playback Function		
Human Body	Top; top color; bottom; bottom color; hat; bag; gender; age; umbrella	Storage	dadio silyon	
Vehicle	Plate No.; type; color; vehicle type; logo; plate color; ornament; calling; seatbelt; region	Disk Group	Yes	
Non-motor Vehicle	Type; color; number of passengers; helmet	Alarm		
Al Search	Supports searching for target video by metadata	General Alarm	Motion detection; privacy masking; video loss; local	
ANPR by Camera		General Alaim	alarm; PIR alarm; IPC alarm	
Performance	4 channels	Anomaly Alarm	Camera offline; storage error; full storage; IP conflict; MAC conflict; login lock; network security anomaly	
Stereo Analysis by Camera			Perimeter protection; face detection; face recognition; SMD; video metadata (human;	
Performance	16 channels Search by target classification (fall detection;	Intelligent Alarm	motor-vehicle; non-motor vehicle); ANPR; people counting; stereo analysis; crowd distribution; heat map	
Al Search	people approach detection; people No. exception detection; people staying detection; violence detection)	Alarm Linkage	Record; snapshot; IPC external alarm output; buzzer; log; preset; email	
Video	,	External Port		
Access Channel	16/32/64	Audio Input	1 channel, RCA connector	
Network Bandwidth	320 Mbps for access, 320 Mbps for storage and 320 Mbps for forwarding	Audio Output	2 channels, RCA connector, which supports voice intercom output	
Resolution	12MP, 8MP, 6MP, 5MP, 4MP, 3MP, 1080p, 1.3MP, 720p, D1, and more	HDD	4 SATA III ports, up to 10 TB for a single HDD. The maximum HDD capacity varies with environment	
Decoding Capability	16-channel@1080P (30 fps)	Alarm Innut	temperature 16 channels	
Video Output	HDMI1: 3840 × 2160; 1920 × 1080; 1280 × 1024; 1280 × 720 VGA1: 1920 × 1080; 1280 × 1024; 1280 × 720 HDMI2/VGA2: 1920 × 1080 VGA1/HMDI1 homologous output, VGA2/HDMI2 homologous output, and VGA1/HDMI1 and VGA2/HDMI2 supports heterogeneous output	Alarm Input Alarm Output	6 channels	
		eSATA	1 eSATA	
		RS-232	1 channel, used to debug and pass through serial	
Multi-screen Display	1st Screen: 16-channel: 1/4/8/9/16 32-channel: 1/4/8/9/16/25/36	RS-485	data 1 channel, used to control PTZ, and it supports	
	64-channel: 1/4/8/9/16/25/36/64		multiple protocols	
	2nd screen: 1/4/8/9/16	USB	1 front USB 2.0 port, 2 rear USB 3.0 ports	

Pro Series | DHI-NVR604-16/32/64-4K

HDMI	2		
VGA	2		
Network	2 RJ-45 10/100/1000 Mbps self-adaptive Ethernet ports		
General Parameter			
Power Supply	Single, 100V–240V AC, 50 Hz–60 Hz		
Power Consumption	< 16.7W (without HDD)		
Net Weight	4.3 kg (9.5 lb) (without HDD)		
Gross Weight	7 kg (15.4 lb) (without HDD)		
Product Dimensions	440 mm × 412.2 mm × 76.0 mm (17.3" × 16.2" × 3.0")		
Package Dimensions	522 mm × 492 mm × 200 mm (20.6" × 19.4" × 7.9")		
Operating Temperature	-10°C to +55°C (+14°F to +131°F)		
Storage Temperature	0°C to +40°C (+32°F to +104°F)		
Operating Humidity	10%-93% (RH)		
Storage Humidity	30%-85% (RH)		
Operating Altitude	3,000 m (9,843 ft)		
Certifications	CE: EN55032; EN55024; EN50130-4; EN60950-1 FCC: Part 15 Subpart B; ANSI C63.4-2014 UL: UL 60950-1		

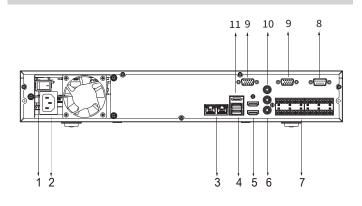
Ordering Information				
Туре	Model	Description		
16 Channel NVR	DHI-NVR604-16-4K	16 Channel 1.5U 4K & H.265 Pro Network Video Recorder		
32 Channel NVR	DHI-NVR604-32-4K	32 Channel 1.5U 4K & H.265 Pro Network Video Recorder		
64 Channel NVR	DHI-NVR604-64-4K	64 Channel 1.5U 4K & H.265 Pro Network Video Recorder		

Dimensions (mm[inch])



Panels

11 eSATA Port



 1
 Power Switch
 2
 Power Input

 3
 Network Ports
 4
 USB Ports

 5
 HDMI Ports
 6
 AUDIO IN, RCA Connector

 7
 Alarm In/Out
 8
 RS-232 Port

 9
 VGA Ports
 10
 AUDIO OUT, RCA Connector

Rev 001.001 © 2021 D