



# **VKDN 5216DK**

# 16 Channel 1U 2HDDs 4K & H.265 Pro Network Video Recorder



Dahua's new 5000 series 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-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**

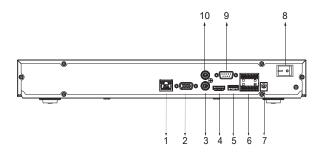
The DMSS app is available on the iOS App Store and Google Play. It makes surveillance easy and simple, allowing you to remotely access back-end devices, view live video, receive event push notifications, and search for recorded videos from an iPhone, iPad, or Android phone at anytime from virtually anywhere.

Technical Specification		Compression	
System		Video	Smart H.265+; Smart H.264+; H.265; H.264; MJPEG
Main Processor	Industrial embedded micro-processor	Audio	PCM; G.711A; G.711U; G.726
Operating System	Embedded Linux	Network	
Operation Interface Perimeter Protection k	Web; local GUI	Network Protocol	HTTP; HTTPS; TCP/IP; IPv4/IPv6; UPnP; SNMP; RTSI UDP; SMTP; NTP; DHCP; DNS; IP Filter; PPPoE; DDN FTP; Alarm Server; IP Search (Supports Dahua IP
Performance	16 channels	Mobile Phone Access	camera, DVR, NVS, and more.); P2P Android; iOS
Al Search	Search for pictures by channel, time and event type	Interoperability	ONVIF (profile T/S/G); CGI; SDK
Face Recognition by Camera		Browser	Chrome; IE9 or later; Firefox
Performance	14 channels	Record Playback	Cironie, il 3 di later, i il etox
Face Attributes	6 attributes: Gender; age; glasses; expression; mouth mask; beard	Multi-channel Playback	1/4/9/16
Al Search	Search for pictures by channel, time and face attributes	Record Mode	Manual; schedule (general; MD; alarm; MD & alarn intelligent; POS)
SMD Plus by Camera		Storage Method	Local HDD and network
Performance	16 channels	Backup	USB device
Al Search Video Metadata by Ca	Search by target classification (human, vehicle) mera	Playback Function	1. Play; pause; stop; fast forward; fast backward; rewind; play by frame 2. Full screen; backup (cut/file); partially enlarge; audio on/off
Performance			addie on, en
Human Body	Top; top color; bottom; bottom color; hat; bag; gender; age; umbrella	Disk Group	Yes
Vehicle	Plate No.; type; color; vehicle type; logo; plate color; ornament; calling; seatbelt; region	Alarm	
Non-motor Vehicle	Type; color; number of passengers; helmet	General Alarm	Motion detection; privacy masking; video loss; loc alarm; PIR alarm; IPC alarm
Al Search	Supports searching for target video by metadata	Anomaly Alarm	Camera offline; storage error; full storage; IP conflict; MAC conflict; login lock; network security
ANPR by Camera			anomaly  Perimeter protection; face detection; face
Performance Stereo Analysis by Can	4 channels nera	Intelligent Alarm	recognition; SMD; video metadata (human; motor-vehicle; non-motor vehicle); ANPR; people counting; stereo analysis; crowd distribution; heat map
Performance	16 channels	Alarm Linkage	Record; snapshot; IPC external alarm output; buzzer; log; preset; email
Al Search	Search by target classification (fall detection; people approach detection; people No. exception detection; people staying detection; violence	External Port	buzzer, rog, preset, email
\e_1	detection)	Audio Input	1 channel, RCA connector
Video		Audio Output	1 channel, RCA connector, which supports voice intercom output
Access Channel  Network Bandwidth	16  320 Mbps for access, 320 Mbps for storage and 320 Mbps for forwarding	HDD	2 SATA III ports, up to 10 TB for a single HDD. The maximum HDD capacity varies with environment temperature
Resolution	12MP, 8MP, 6MP, 5MP, 4MP, 3MP, 1080p, 1.3MP, 720p, D1, and more	Alarm Input	4 channels
Decoding Capability	16-channel@1080P (30 fps)	Alarm Output	2 channels
Video Output	HDMI1: 3840 × 2160; 1920 × 1080; 1280 × 1024; 1280 × 720 VGA1: 1920 × 1080; 1280 × 1024; 1280 × 720	RS-232	1 channel, used to debug and pass through serial data
		RS-485	1 channel, used to control PTZ, and it supports multiple protocols
Multi-screen Display	1/4/8/9/16	USB	1 front USB 2.0 port, 1 rear USB 3.0 port
	Panasonic, Sony, Samsung, Axis, Pelco, Arecont,	HDMI	1
Third Party Camera Access	ONVIF, Canon and more	VGA	1

Network	1 RJ-45 10/100/1000 Mbps self-adaptive Ethernet port	
General Parameter		
Power Supply	12V/4A DC	
Power Consumption	< 9.5W (without HDD)	
Net Weight	1.6 kg (3.5 lb) (without HDD)	
Gross Weight	3.2 kg (7.1 lb) (without HDD)	
Product Dimensions	375.0 mm $\times$ 282.4 mm $\times$ 53.0 mm (14.8" $\times$ 11.1" $\times$ 2.1")	
Package Dimensions	429 mm × 137 mm × 360 mm (16.9" × 14.2" × 5.4")	
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

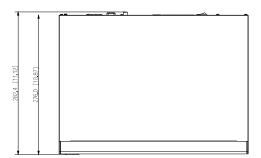
# **Panels**



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

# Dimensions (mm[inch])





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