

# DH-XVR5216AN-4KL-I3-16P

16CH Penta-brid 4K Value/5MP 1U 2HDDs WizSense Digital Video Recorder



#### Wiz Sense

Launched by Dahua Technology, WizSense is a series of AI products and solutions that adopt independent AI chip and deep learning algorithm. It focuses on human and vehicle with high accuracy, enabling users to fast act on defined targets. Based on Dahua's advanced technologies, WizSense provides intelligent, simple and inclusive products and solutions.

#### Series Overview

Dahua Technology, a world-leading video-centric smart IoT solution and service provider, debuted its new XVR series, XVR5000-4KL-I3 Series featuring max.full-channel SMD Plus to benefit customers from AI upgrade (The number of channels differs depending on the model. Please refer to the specifications below for information on the number of channels.). This series has been developed to reduce false-alarm rates and the cost of human surveillance, thus bringing great value to customers in search of products with accurate human/vehicle alarm to raise the security level of various indoor and outdoor facilities.

#### Functions

#### PoC

By transmitting power over the same coaxial cable with video, HDCVI PoC technology further simplifies the deployment of HDCVI system, and therefore reduces installation time and labor costs. Balun could be connected for compatibility with UTP transmission when PoC function is disabled.

#### **Face Recognition**

Dahua Face Recognition technology extracts the features of captured faces and compares them with that in face database. \*Face Recognition conflicts with SMD Plus and Perimeter Protection.

#### **Perimeter Protection**

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

#### SMD Plus

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.

- 16-channel SMD Plus for analog channels or 32-channel SMD by camera which allows the device to trigger accurate alarms for humans and vehicles.
- 8-channel perimeter protection for analog channels which supports tripwire and intrusion detection powered by AI.
- 2-channel face recognition for analog channels which supports face comparison.
- 16-channel AI Coding saves on storage and bandwidth while maintaining the details of targets in videos.
- · Supports HDCVI, AHD, TVI, CVBS and IP video input.
- Supports up to 32-channel IP camera input and each channel can be up to 8 MP. The incoming bandwidth reaches 128 Mbps.
- Smart H.265+ and H.265 dual-stream video compression.
- IoT and POS capabilities.
- All the channels support PoC AT and PoC AF cameras, and the XVR auto recognizes PoC cameras that have different power consumption levels.



#### AI Coding-ABR

Compared with H.265, AI coding-ABR can save 50% on storage costs, and save bit rate for complex scenes, which can prioritize image quality in dynamic scenes.

#### QuickPick 2.0

By employing the back-end perimeter protection algorithm, QuickPick 2.0 not only retains the capability to identify the color of clothing and vehicles, which was offered by its predecessor QuickPick 1.0, but it also possesses the enhanced ability to detect various types of hats, clothing and vehicles, thus greatly improving the accuracy of the search function.

#### **Privacy Protection**

Dahua Privacy Protection technology is capable of masking detected human faces and subsequently removing the mask, ensuring the privacy of specific individuals is protected.

#### Irregular Black Block Masking

Dahua's black block masking function supports the use of irregular shapes for masking, ensuring privacy in public and private locations.

#### HDMI (4K)

The HDMI port can support up to 4K output, delivering clear and highly detailed images.

# Wiz Sense | DH-XVR5216AN-4KL-I3-16P

Technical Specification	n	
System Main Processor Operating System	Industrial-grade processor Embedded Linux	
Operating Interface	Web; Local GUI	
Quick Pick QuickPick 2.0 AI by Recorder (Number of Channels) Perimeter Protection	2 channels	
Perimeter Performance Al by Recorder (Number of Channels)	Advanced Mode: 2 channels, 10 IVS rules for each channel General Mode: 8 channels, 10 IVS rules for each channel	
Face Detection		
Face Attributes Face Detection Performance of Al by Recorder (Number of Channels)	6 attributes 2 channels (up to 12 face images/s each channel)	
Privacy Protection		
Privacy Protection Performance of Al by Recorder (Number of Channels)	1 channel	
Face Recognition		
Face Database Capacity Face Recognition Performance of AI by Recorder (Number of	Up to 10 face databases with 20,000 images. 2 channels	
Channels)		
SMD Plus		
SMD Plus by Recorder	16 channels: Secondary filtering for human and vehicle, reducing false alarms caused by leaves, rain and lighting	
	condition change	
SMD Plus by Camera 32 channels   Al Video Quality Analytics		
Al Video Quality Analytics by Recorder	16 channels: Supports detecting brightness levels, color cast, defocus, overexposure, contrast levels, black and white	
Scene Changing		
Scene Changing by Recorder	1 channel	
Irregular Black Block Masking		
Irregular Black Block Masking by Recorder	1 channel	
Audio and Video		
Analog Camera Input	16 BNC ports, supports HDCVI/AHD/TVI/CVBS auto- detect	

# Wiz Sense | DH-XVR5216AN-4KL-I3-16P

#### Network

Network				
Network Protocol	HTTP; HTTPS; TCP/IP; IPv4; IPv6; RTSP; UDP; NTP; DHCP; DNS; SMTP; UPnP; IP Filter; FTP; DDNS; SNMP; Alarm Server; P2P; Auto Registration; IP Search (Supports IP camera, DVR, NVS, etc.)			
Mobile Phone Access	iOS; Android			
Interoperability	ONVIF 23.12 (Profile T; Profile S; Profile G); CGI; SDK			
Browser	Chrome; IE; Safari; Edge; Firefox			
Recording Playback				
Record Mode	General; alarm; motion detection; intelligent; POS			
Recording Playback	1/4/9/16			
Backup Method	USB device and network			
Playback Mode	Instant playback; general playback; event playback; tag playback; smart playback			
Storage				
Disk Group	Yes			
Alarm				
General Alarm	Motion detection; alarm box; HDCVI alarm; camera external alarm; network alarm; PIR alarm			
Anomaly Alarm	Error (no disk, disk error, low space, low quota space; network disconnection; IP conflict; MAC conflict); video loss; video tampering; camera offline			
Intelligent Alarm	Face detection; face recognition; perimeter protection; SMD Plus			
Alarm Linkage	Record; snapshot (panoramic); IPC external alarm output; audio; buzzer; log; preset; email			
Ports				
TV Output	1 channel			
Audio Input	1-channel RCA 16-channel BNC (Coaxial Audio)			
Audio Output	1-channel RCA			
Two-way Talk	Yes (share the same audio input with the first channel)			
Disk Interface	2 SATA ports. Each disk can contain up to 16 TB. This limit varies depending on the environment temperature.			
RS-485	1			
USB	2 (1 front USB 2.0 port, 1 rear USB 3.0 port)			
HDMI	1			
VGA	1			
Network Port	1 (10/100/1000 Mbps Ethernet port, RJ-45)			
General				
Power Supply	100–240 VAC, 50±2% Hz			
Power Consumption	<15 W (without HDD)			
Net Weight	1.80 kg (3.97 lb)			
Gross Weight	4.13 kg (9.11 lb)			
Product Dimensions	375.0 mm × 334.4 mm × 53.0 mm (14.76" × 13.17" × 2.09") (W × D × H)			

Packaging Dimensions	449.0 mm × 170.0 mm × 421.0 mm (17.68" × 6.69" × 16.57") (W × D × H)
Operating Temperature	-10 °C to +55 °C (+14 °F to +131 °F)
Storage Temperature	-20 °C to +60 °C (-4 °F to +140 °F)
Operating Humidity	10%–90% (RH), non-condensing
Installation	Desktop
Certifications	CE: CE-LVD: EN 60950-1/IEC 60950-1 CE-EMC: EN 61000-3-2, EN 61000-3-3, EN 55032, EN 50130, EN 55024 FCC: Part 15 Subpart B

### Ordering Information

Туре	Model	Description
DIGITAL VIDEO RECORDER	DH-XVR5216AN-4KL-I3-16P	16CH Penta-brid 4K Value/5MP 1U 2HDDs WizSense Digital Video Recorder

### Accessories

Optional:







DHI-SSD-V800S256G SSD

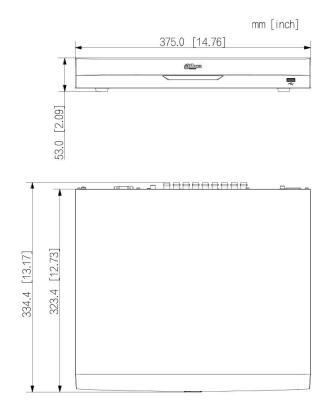
DHI-SSD-V800S512G SSD

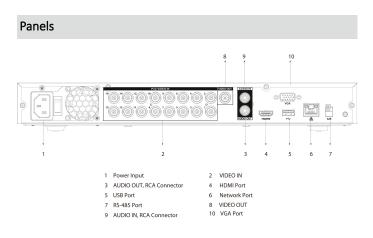
DHI-SSD-V800S1TB SSD



DHI-ARB1606 Alarm Box

## Dimensions (mm[inch])





Rev 002.000 © 2024 Dahua. All rights reserved. Design and specificatons are subject to change without notce Pictures in the document are for reference only, and the actual product shall prevail.