



# DH-XVR5116H-4KL-I3/T

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





Launched by Dahua Technology, WizSense is a series of Al products and solutions that adopt independent Al 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**

The XVR5000-4KL-I3/T series raises the bar on video recorders with its advanced high-resolution design, offering versatility to meet the demands of various applications and projects of different scales and budgets. Its strong compatibility with 5MP cameras ensures the delivery of clear and vivid live video feeds, making it highly recommended for use with 5MP cameras. Loaded with multiple Al functions, such as AcuPick, EPTZ and privacy protection, this series not only streamlines operations but also significantly reduces time and labor costs, contributing to a lower Total Cost of Ownership (TCO).

## **Functions**

#### Two-way talk

Allows for seamless communication between the camera, client and recorder over coaxial cable, and offers instant voice intercom and timely audio alerts.

### 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.

- \* Dolynk cloud version: DMSS 2.3.0 and above, Dolynk Care 2.53.00 and above.
- 16-channel two-way talk over coaxial cable allows for seamless communication between the camera, client and recorder.
- 8-channel AcuPick for analog channels which improves the efficiency of target retrieval.
- 8-channel perimeter protection for analog channels which supports tripwire and intrusion detection powered by AI.
- 4-channel face recognition for analog channels which supports face comparison.
- 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.
- 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.
- Supports accessing Wi-Fi cameras, making it suitable for a wide range of scenes.
- · Smart H.265+ and H.265 dual-stream video compression.













#### 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.

#### AcuPick

This industry-leading search technology effectively utilizes back-end intelligence to help with searching through massive video data to quickly and conveniently locate targets with greater precision.

#### **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.

#### **Enhanced Encoding**

Encoding Enhancement mode optimizes videos through real-time encoding to make them smoother and improve scene rendering.

Technical Specification	n		
System			•
Main Processor	Industrial-grade processor		Camera Input
Operating System	Embedded Linux		
Operating Interface	Web; Local GUI		
AcuPick			
AcuPick AI by Recorder (Number of Channels)	8 channels		IP Camera Input
Perimeter Protection			
Perimeter Performance Al by Recorder (Number of Channels)	8 channels, 10 IVS rules for each channel		
Face Detection			
Face Attributes	6 attributes	Encoding Capacity	
Face Detection Performance of AI by Recorder (Number of Channels) Privacy Protection	4 channels (up to 12 face images/s each channel)		
Privacy Protection Performance of AI by Recorder (Number of Channels)	1 channel		
Face Recognition		<i>3</i> , ,	
Face Database Capacity	Up to 10 face databases with 20,000 images.		
Face Recognition Performance of AI by Recorder (Number of Channels)	4 channels		
SMD			
SMD Plus by Recorder	16 channels: Secondary filtering for human and vehicle, reducing false alarms caused by leaves, rain and lighting condition change		
SMD by Camera	32 channels		
Al Video Quality Anal	ytics	Dual-stream	
Al Video Quality Analytics	16 channels: Supports detecting brightness levels, color cast, defocus, overexposure, contrast levels, black and	Video Bit Rate	
by Recorder	white.	Audio Sampling	
Scene Changing		Audio Bit Rate	
Scene Changing by Recorder	1 channel		
Irregular Black Block	Masking	Video Output	
Irregular Black Block Masking by Recorder	1 channel		
EPTZ		Multi-screen Display	
EPTZ by Recorder	1 channel	Third-party Camera Acce	ss
Audio and Video		Compression Stand	
Analog Camera Input	16 BNC ports, supports HDCVI/AHD/TVI/CVBS auto-	Video Compression	

Audio Compression	G.711a; G.711u; PCM			
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 25.06 (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			
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				
Audio Input	4-channel RCA 16-channel BNC (Coaxial Audio)			
Audio Output	1-channel RCA			
Two-way Talk	Coaxial two-way talk: 16-channel BNC Local and network user two-way talk: Shares the same audio input with the first channel			
Disk Interface	$1\mbox{SATA}$ port, up to $16\mbox{TB}.$ 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	12 VDC, 3 A			
Power Consumption	< 15 W (without HDD)			
Net Weight	1.39 kg (3.06 lb)			
Gross Weight	2.06 kg (4.54 lb)			
Product Dimensions	325.0 mm $\times$ 257.1 mm $\times$ 55.0 mm (12.80" $\times$ 10.12" $\times$ 2.17") (W $\times$ D $\times$ H)			
Packaging Dimensions	374.0 mm $\times$ 119.0 mm $\times$ 311.0 mm (14.72" $\times$ 4.68" $\times$ 12.24") (W $\times$ D $\times$ 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-LVD: IEC 62368-1:2014 CE-EMC: EN IEC 61000-3-2:2019, EN 61000-3-3:2013+A1:2019, EN 55032:2015+A11:2020, EN 55035:2017+A11:2020, EN 55024:2010+A1:2015, EN 50130-4:2011+A1:2014	

Ordering Information					
Туре	Model	Description			
DIGITAL VIDEO RECORDER	DH-XVR5116H-4KL-I3/T	16CH Penta-brid 4K Value/5MP Mini 1U 1HDD WizSense Digital Video Recorder			
	DH-NC300	802.11AX 300M WIRELESS ADAPTER			
Accessories (Optional)	DH-NC650	802.11AC 650M WIRELESS ADAPTER			
	DHI-ARB1606	Alarm Box			

# Accessories

# Optional:



DH-NC300 802.11AX 300M WIRELESS ADAPTER

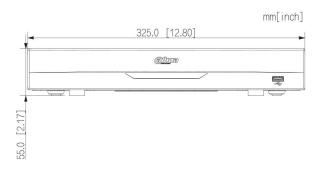


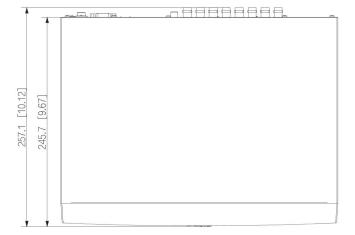
DH-NC650 802.11AC 650M WIRELESS ADAPTER



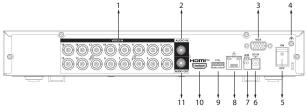
DHI-ARB1606 Alarm Box

# Dimensions (mm[inch])





## **Panels**



1 VIDEO IN

2 AUDIO IN, RCA Connector

3 VGA Port

4 Ground

5 Power Switch

6 Power Input

7 RS-485 Port

8 Network Port

9 USB Port

10 HDMI Port

11 AUDIO OUT, RCA Connector