



DH-XVR5116HS-I3/T

16CH Penta-brid 5MP Value/1080P Compact 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-I3/T Series offers powerful recorders that work in conjunction with 1080p HDCVI cameras, delivering smooth and crisp live videos along with an array of advanced security functions. It features two-way talk over coaxial cable, and incorporates AcuPick technology, along with other AI functions, to enhance intelligence and convenience in the surveillance field.

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.

Enhanced Encoding

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

Face Recognition

Dahua Face Recognition technology extracts the features of captured faces and compares them with that in face database.

*Face Recognition takes effect when Face is selected in Al Mode.

- * Dolynk cloud version: DMSS 2.0.30 and above, Dolynk Care 2.50.20 and above.
- 16-channel two-way talk over coaxial cable allows for seamless communication between the camera, client and recorder.
- 2-channel AcuPick for analog channels which improves the efficiency of target retrieval.
- 4-channel perimeter protection for analog channels which supports tripwire and intrusion detection powered by Al.
- 2-channel face recognition for analog channels which supports face comparison.
- 16-channel SMD Plus for analog channels or 24-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 24-channel IP camera input and each channel can be up to 6 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.

*Perimeter Protection takes effect when IVS is selected in AI Mode.

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.

*AcuPick takes effect when AcuPick is selected in Al Mode.

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.

*SMD Plus takes effect when SMD is selected in AI Mode.

Technical Specification				Up to 24 channels of IPC access
System				8 IP channels by default + 16 channels (analog channels are converted to IP channels)
Main Processor	Industrial-grade processor		IP Camera Input	Incoming bandwidth: 128 Mbps, recording bandwidth: 128 Mbps and outgoing bandwidth: 128 Mbps *After IP extension is enabled, Video Quality Analytics, Scene Changing, Face Recognition, Face Detection, Perimeter Protection and AcuPick cannot be used.
Operating System	Embedded Linux			
Operating Interface	Web; Local GUI			
AcuPick				Encode Enhancement disabled: Main stream:
AcuPick Performance of Al by Recorder (1080P) (Number of Channels)	2 channels			Channels 1-4 5M-N@(1 fps-25 fps), others 5M-N@(1 fps-12 fps); Channels 1-4 4M-N/1080p@(1 fps-30 fps), others 4M-N/1080p@(1 fps-15 fps);
Perimeter Protection				1080N/720p/960H/D1/CIF@(1 fps-30 fps); Sub stream: D1/CIF@(1 fps-15 fps);
Perimeter Performance AI by Recorder (Number of Channels)	4 channels, 10 IVS rules for each channel		Encoding Capacity	Encode Enhancement enabled: Main stream: Channels 1-8 5M-N@(1 fps-20 fps), others 5M-N@(1 fps-12 fps); (4 channels can be transformed to 5MP@6 fps) Channels 1-8 4M-N/1080p@(1 fps-25 fps), others 4M-N/1080p@(1 fps-15 fps); 1080N/720p/960H/D1/CIF@(1 fps-30 fps); Sub stream: D1/CIF@(1 fps-15 fps); *When Encode Enhancement is enabled, Video Quality Analytics, Scene Changing, Face Recognition, Face Detection, Perimeter Protection and AcuPick cannot be
Face Detection				
Face Attributes	6 attributes			
Face Detection Performance of AI by Recorder (Number of Channels)	2 channels (up to 12 face images/s each channel)			
Face Recognition			Devel atomics	used.
Face Database Capacity	Up to 10 face databases with 10,000 images.		Dual-stream	Yes
Face Recognition Performance of AI by	2 channels		Video Bit Rate	32 kbps-6144 kbps
Recorder (Number of			Audio Sampling	8 kHz, 16 bit
Channels)			Audio Bit Rate	64 kbps
SMD Plus by Recorder	16 channels: Secondary filtering for human and vehicle, reducing false alarms caused by leaves, rain and lighting condition change		Video Output	1 HDMI, 1 VGA HDMI: 3840 × 2160, 1920 × 1080, 1280 × 1024, 1280 × 720 VGA: 1920 × 1080, 1280 × 1024, 1280 × 720 It changes to 1920 × 1080, 1280 × 1024, 1280 × 720 when Face, IVS&SMD or AcuPick is selected in Al Mode.
SMD by Camera	24 channels			When IP extension mode not enabled: 1/4/8/9/16
Al Video Quality Analytics			Multi-screen Display	When IP extension mode enabled: 1/4/8/9/16/25
Al Video Quality Analytics	16 channels: Supports detecting brightness levels, color cast, defocus, overexposure, contrast levels, black and white.		Third-party Camera Access	Panasonic; Sony; Hanwha; Axis; Arecont; ONVIF
by Recorder			Compression Standard	
Scene Changing			Video Compression	Al Coding; Smart H.265+; H.265; Smart H.264+; H.264
Scene Changing by	1 channel		Audio Compression	G.711a; G.711u; PCM
Recorder Irregular Black Block Masking			Network	
Irregular Black Block Masking by Recorder	1 channel		Network Protocol	HTTP; HTTPS; TCP/IP; IPv4; IPv6; RTSP; UDP; NTP; DHCP; DNS; SMTP; UPnP; IP Filter; FTP; DDNS; SMMP; Alarm Server; P2P; Auto Registration; IP Search (Supports IP camera, DVR, NVS, etc.)
Audio and Video			Mobile Phone Access	iOS; Android
Analog Camera Input	16 BNC ports, supports HDCVI/AHD/TVI/CVBS autodetect		Interoperability	ONVIF 24.12 (Profile T; Profile S; Profile G); CGI; SDK
Camera Input	1. CVI: 5 MP@25 fps; 5 MP@20 fps; 5 MP@10/12.5 fps; 4 MP@25/30 fps; 1080p@25/30 fps; 720p@50/60 fps; 720p@25/30fps. 2. TVI: 5 MP(2560 × 1944)@20 fps; 5 MP(2960 × 1665)@20/25 fps; 4 MP@25/30 fps; 1080p@25/30 fps; 720p@25/30 fps. 3. AHD: 5 MP@20 fps; 4 MP@25/30 fps; 1080p@25/30 fps; 720p@25/30 fps.		Browser	Chrome; IE; Safari; Edge; Firefox
			Recording Playback	
			Record Mode	General; alarm; motion detection; intelligent
			Recording Playback	1/4/9/16 It changes to 1/4/9 split when Face or IVS&SMD or AcuPick is selected in Al Mode.

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	1-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 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, 2 A				
Power Consumption	<12 W (without HDD)				
Net Weight	1.00 kg (2.20 lb)				
Gross Weight	1.58kg (3.48 lb)				
Product Dimensions	260.0 mm × 237.8 mm × 47.6 mm (10.24" × 9.36" × 1.87") (W × D × H)				
Packaging Dimensions	344.0 mm \times 89.0 mm \times 287.0 mm (13.54" \times 3.50" \times 11.30") (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-XVR5116HS-I3/T	16CH Penta-brid 5MP Value/1080P Compact 1U 1HDD WizSense Digital Video Recorder			
Accessories (Optional)	DH-NC300	802.11AX 300M WIRELESS ADAPTER			
Accessories (Optional)	DH-NC650	802.11AC 650M WIRELESS ADAPTER			

Accessories

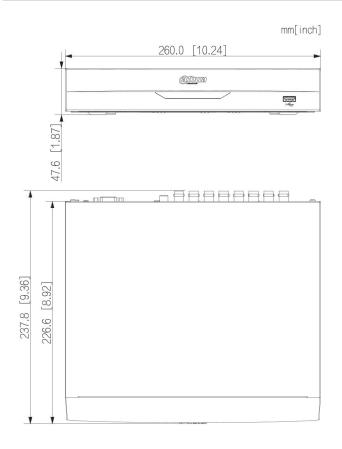
Optional:



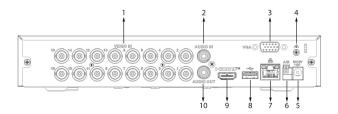


DH-NC300 802.11AX 300M WIRELESS ADAPTER DH-NC650 802.11AC 650M WIRELESS ADAPTER

Dimensions (mm[inch])



Panels



1 VIDEO IN 2 AUDIO IN, RCA Connector

3 VGA Port 4 Ground
5 Power Input 6 RS-485 Port
7 Network Port 8 USB Port

9 HDMI Port 10 AUDIO OUT, RCA Connector