



DH-XVR1B16H-I

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

Dahua Technology, a world-leading video-centric smart IoT solution and service provider, debuted its new XVR series, Cooper-I 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

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.

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.

- 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.
- · Smart H.265+ and H.265 dual-stream video compression.







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.



Technical Specification		Network		
System			HTTP; HTTPS; TCP/IP; IPv4; IPv6; RTSP; UDP; NTP; DHCP; DNS; SMTP; UPnP; IP Filter; FTP; DDNS; SNMP; Alarm	
Main Processor	Industrial-grade processor	Network Protocol	Server; P2P; Auto Registration; IP Search (Supports IP camera, DVR, NVS, etc.)	
Operating System	Embedded Linux	Mobile Phone Access	iOS; Android	
Operating Interface	Web; Local GUI	Interoperability	ONVIF 24.06 (Profile T; Profile S; Profile G); CGI; SDK	
SMD Plus		Browser	Chrome; IE; Safari; Edge; Firefox	
SMD Plus by Recorder	16 channels: Secondary filtering for human and motor vehicle, reducing false alarms caused by leaves, rain and lighting condition change	Recording Playback		
		Record Mode	General; alarm; motion detection	
SMD Plus by Camera	24 channels	Recording Playback	1/4/9/16	
Irregular Black Block Masking		Backup Method	USB device and network	
Irregular Black Block Masking by Recorder	1 channel	Playback Mode	Instant playback; general playback; event playback; tag playback; smart playback	
Audio and Video		Alarm	Alarm	
Analog Camera Input	16 BNC ports, supports HDCVI/AHD/TVI/CVBS auto- detect	General Alarm	Motion detection; HDCVI alarm; camera external alarm; network alarm; PIR alarm	
	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 x 1944)@20 fps; 5 MP(2960 x 1665)@20 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.	Anomaly Alarm	Error (no disk, disk error, low space, low quota space; network disconnection; IP conflict; MAC conflict); video loss; video tampering; camera offline	
Camera Input		Intelligent Alarm	SMD Plus	
·		Alarm Linkage	Record; snapshot (panoramic); IPC external alarm output; audio; buzzer; log; preset; email	
		Ports	Ports	
IP Camera Input	Up to 24 channels of IPC access 8 IP channels by default + 16 channels (analog channels are converted to IP channels) incoming bandwidth: 128 Mbps, recording bandwidth: 128 Mbps and outgoing bandwidth: 128 Mbps *After IP channels are added beyond the existing channels, the AI Function SMD will be disabled.	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)	
	Main stream: 5 MP Mode: 4-ch 5 MP@(1 fps-6 fps); others 5M-N@(1 fps-12 fps) 5M-N Mode: 5M-N@(1 fps -12 fps); 4M-N/1080p@(1 fps-15 fps); 1080N/720p/960H/D1/CIF@(1 fps-25/30 fps) Sub stream: D1/CIF@(1 fps-15 fps)	Disk Interface	$1\mbox{SATA}$ port, up to $16\mbox{TB}.$ This limit varies depending on the environment temperature.	
		USB	2 (2 rear USB 2.0 ports)	
Encoding Capacity		HDMI	1	
		VGA	1	
Dual-stream	Yes	Network Port	1 (10/100/1000 Mbps Ethernet port, RJ-45)	
Video Bit Rate	32 kbps–6144 kbps	General		
Audio Sampling	8 kHz, 16 bit	Power Supply	12 VDC, 2 A	
Audio Bit Rate	64 kbps	Power Consumption	<12 W(without HDD)	
	1 HDMI, 1 VGA VGA: 1920 × 1080, 1280 × 1024, 1280 × 720 HDMI: 3840 × 2160, 1920 × 1080, 1280 × 1024, 1280 ×	Net Weight	0.93 kg (2.05 lb)	
Video Output		Gross Weight	1.43 kg (3.16 lb)	
Multi-carean Diamlay	720 When IP extension mode not enabled: 1/4/8/9/16	Product Dimensions	260.0 mm × 231.4 mm × 47.6 mm (10.24" × 9.11" × 1.87") (W × D × H)	
Multi-screen Display Third-party Camera Access	When IP extension mode enabled: 1/4/8/9/16/25 Panasonic; Sony; Hanwha; Axis; Arecont; ONVIF	Packaging Dimensions	333.0 mm \times 89.0 mm \times 315.0 mm (13.11" \times 3.50" \times 12.40") (W \times D \times H)	
Compression Standard		Operating Temperature	-10 °C to +45 °C (+14 °F to +113 °F)	
Video Compression	Al Coding; Smart H.265+; H.265; Smart H.264+; H.264	Storage Temperature	-20 °C to +60 °C (-4 °F to +140 °F)	
Audio Compression	G.711a; G.711u; PCM	Operating Humidity	10%–90% (RH), non-condensing	
34.0 CC	,,,			



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

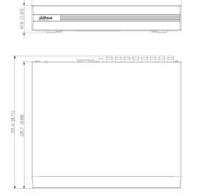
Ordering Information				
Туре	Model	Description		
DIGITAL VIDEO RECORDER	DH-XVR1B16H-I	16CH Penta-brid 5MP Value/1080P Compact 1U 1HDD WizSense Digital Video Recorder		

Accessories

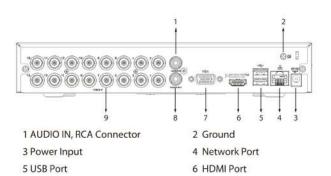
Optional:



Dimensions (mm[inch])



Panels



7 VGA Port 9 VIDEO IN 8 AUDIO OUT, RCA Connector