



DH-XVR4B16-I

16 Channel Penta-brid 1080N/720p Compact 1U 1HDD WizSense Digital Video Recorder



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, Cooper Series featuring SMD Plus to benefit customers from AI upgrade. The series are designated to reduce false-alarm rates and human surveillance costs, 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

SMD Plus, referred to as Smart Motion Detection Plus, which is an upgrading version of SMD that greatly improves the alarm accuracy by loading deep-learning algorithm. It analyzes person and vehicle shapes based on motion detection and send alarms only when person and vehicle intrudes.

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

AI Coding

Compared with H.265, AI codec can reduce up to 50% bit rate and storage requirements while have no loss of decoding compatibility, providing clear human and vehicle details.

- H.265+/H.265 dual-stream video compression
- · Supports Full-channel AI-Coding
- · Supports HDCVI/AHD/TVI/CVBS/IP video inputs
- Max 18 channels IP camera inputs, each channel up to 6MP; Max 64 Mbps Incoming Bandwidth
- · Long transmission distance over coax cable
- Up to 8 channels video stream (analog channel) SMD Plus













Smart H.265+

Smart Codec, H.265+ can reduce up to 90% bit rate and storage requirements compared with H.264 without having to invest in new cameras.

HDCVI/AHD/TVI/CVBS Auto-detect

The XVR can auto recognize the signal of front-camera without any setting. It makes operation more friendly and convenient.

High Definition Camera Input

The XVR supports up to 1080p HDCVI camera and 6MP IP camera input.

Coaxial Audio/Upgrade/Alarm

The integrated design can reduce wiring troubles which makes it much more cost–effective and convenient for installation.

Long Distance Transmission

The HDCVI system supports long distance transmission over coaxial cable and UTP, max. 700 m for 4K/4MP, 800 m for 1080 p and 1200 m for 720 p.

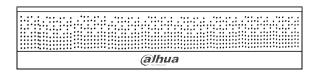


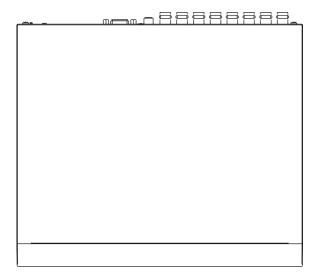
Technical Specification		Smart Phone	iPhone; iPad; Android	
System		Interoperability	ONVIF 16.12, CGI Conformant	
Main Processor	Embedded processor	Video Detection	and Alarm	
Operating System	Embedded linux	Trigger Events	Recording; PTZ; Tour; Video Push; Email; FTP; Snapsho Buzzer and Screen Tips	
SMD Plus		Video Detection	Motion Detection, MD Zones: 396 (22 × 18), Video Loss Tampering and Diagnosis	
Performance	8 channels	Alarm input	N/A	
AI Search	Search by target classification (Human, Vehicle)	Relay Output	N/A	
Video and Audio		Playback and Bac	kup	
Analog Camera Input	16 channels, BNC	Playback	1/4/9/16	
HDCVI Camera	1080p@ 25/30 fps, 720p@ 25/30 fps	Search Mode	Time/Date, Alarm, MD and Exact Search (accurate to	
AHD Camera	1080p@ 25/30 fps, 720p@ 25/30 fps	oca. on mode	second) Play; Pause; Stop; Rewind; Fast play; Slow Play; Next F	
TVI Camera	1080p@ 25/30 fps, 720p@ 25/30 fps	Playback Function	Previous File; Next Camera; Previous Camera; Full Scre Repeat; Shuffle; Backup Selection; Digital Zoom	
CVBS Camera	PAL/NTSC	Backup Mode	USB Device/Network	
IP Camera Input	16+2 channels, each channel up to 6MP	Storage		
Audio In/Out	1/1, RCA	Internal HDD	1 SATA port, up to 16 TB capacity	
Two-way Talk	Reuse audio in/out, RCA	eSATA	N/A	
Recording		Auxiliary Interface		
Video Compression	Al Coding/H.265+/H.265/H.264+/H.264	USB	2 USB ports (USB 2.0)	
Resolution	1080N; 720p; 960H; D1; HD1; BCIF; CIF; QCIF	RS232	N/A	
Record Rate	Main Stream: the 1st channel 1080N/720p (1 fps-25/30 fps), others 1080N/720p (1 fps-15 fps); 960H/D1/HD1/BCIF/CIF/QCIF (1 fps-25/30 fps) Sub stream: CIF/QCIF (1 fps-7 fps)	RS485	N/A	
		Electrical		
		Power Supply	DC 12V/2A	
Video Bit Rate	32 kbps–4096 kbps per channel	Power Consumption (Without HDD)	<10W	
Record Mode	Manual; Schedule (General, Continuous); MD (Video detection: Motion Detection, Video Loss, Tampering); Alarm; Stop	Construction		
Record Interval	1 min-60 min (default: 60 min), Pre-record: 1 sec-30 sec, Post-record: 10 sec-300 sec	Dimensions	Compact 1U, 260.0 mm \times 231.4 mm \times 47.6 mm (10.24" \times 9.11" \times 1.87")	
Audio Compression	G.711A; G.711U; PCM	Net Weight (without HDD)	0.89 kg (1.96 lb)	
Audio Sample Rate	8 KHz, 16 bit per channel	Gross Weight	1.42 kg (3.13 lb)	
Audio Bit Rate	64 kbps per channel	Installation	Desktop installation	
Display		Environmental		
Interface	1 HDMI; 1 VGA	Operating Conditions	-10°C to +45°C (+14°F to +113°F), 10%–90% (RH)	
Resolution	1920 × 1080, 1280 × 1024, 1280 × 720	Storage Conditions	-20°C to +70°C (-4°F to +158°F), 0%–90% (RH)	
Multi-screen Display	When IP extension mode not enabled: 1/4/8/9/16 When IP extension mode enabled: 1/4/8/9/16	Third-party Supp	ort	
OSD	Camera title; Time; Video loss; Camera lock; Motion detection; Recording	Third-party Support	Dahua, Arecont Vision, AXIS; Bosch, Brickcom, Canon, Plus, Dynacolor, Honeywell, Panasonic, Pelco, Samsun Sanyo, Sony, Videotec, Vivotek, and more	
Network			Sarryo, Sorry, Videotec, Vivotex, and more	
Interface	1 RJ-45 Port (100 MB)			
Network Function	HTTP; HTTPS; TCP/IP; IPv4/IPv6; UPnP; RTSP; UDP; SMTP; NTP; DHCP; DNS; IP Filter; DDNS; FTP; Alarm Server; P2P; IP Search (Supports Dahua IP camera, DVR, NVS, etc.)			
Max. User Access	128 users			



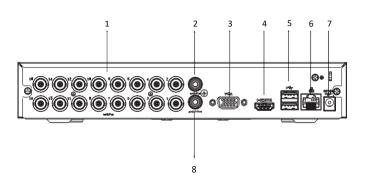
Ordering Information			
Туре	Part Number	Description	
16 Channel WizSense XVR	DH-XVR4B16-I	16 Channel Penta-brid 1080N/720p Compact 1U WizSense Digital Video Recorder	

Dimensions (mm[inch])





Panels



- 1 VIDEO IN
- 3 VGA Port
- 5 USB Ports
- 7 Power Input
- 2 AUDIO IN, RCA Connector
- 4 HDMI Port
- 6 Network Port
- 8 AUDIO OUT, RCA Connector