

EZ-XVR1B16-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, featuring SMD Plus to benefit customers from Al 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.

Smart H.265+

- · H.265+/H.265 dual-stream video compression
- Supports Full-channel Al-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 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

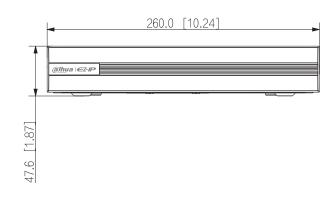
The integrated design can reduce wiring troubles which makes it much more cost-effective and convenient for installation.

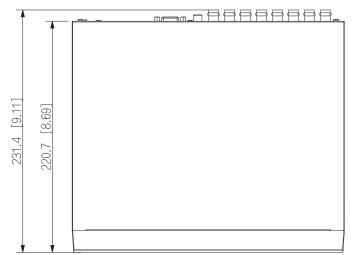
Long Distance Transmission

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

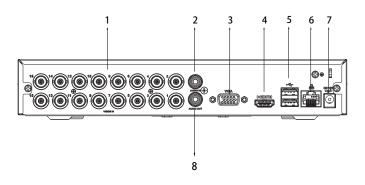
Technical Specification		Smart Phone	iPhone; iPad; Android
System		Interoperability	ONVIF 16.12, CGI Conformant
Main Processor	Embedded processor	Video Detection a	and Alarm
Operating System	Embedded linux	Trigger Events	Recording; PTZ; Tour; Video Push; Email; FTP; Snapsh Buzzer and Screen Tips
SMD Plus		Video Detection	Motion Detection, MD Zones: 396 (22 × 18), Video Lo
Performance	8 channels	Alarm input	Tampering and Diagnosis N/A
AI Search	Search by target classification (Human, Vehicle)	Alarm input	
Video and Audio		Relay Output	N/A
Analog Camera Input	16 channels, BNC	Playback and Bac	
HDCVI Camera	1080p@ 25/30 fps, 720p@ 25/30 fps	Playback	1/4/9/16
AHD Camera	1080p@ 25/30 fps, 720p@ 25/30 fps	Search Mode	Time/Date, Alarm, MD and Exact Search (accurate to second)
TVI Camera	1080p@ 25/30 fps, 720p@ 25/30 fps	Playback Function	Play; Pause; Stop; Rewind; Fast play; Slow Play; Next Previous File; Next Camera; Previous Camera; Full Sc 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		OSB Device/Network
Audio In/Out	1/1, RCA	Storage	15174
Two-way Talk	Reuse audio in/out, RCA	Internal HDD	1 SATA port, up to 6 TB capacity
Recording		eSATA	N/A
Video Compression	Al Coding/H.265+/H.265/H.264+/H.264	Auxiliary Interfac	e
Resolution	1080N; 720p; 960H; D1; HD1; BCIF; CIF; QCIF	USB	2 USB ports (USB 2.0)
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)	RS232	N/A
		RS485	N/A
	Sub stream: CIF/QCIF (1 fps–7 fps)	Electrical	10.170.6
Video Bit Rate	32 kbps–4096 kbps per channel	Power Supply	12 VDC/2A
Record Mode	Manual; Schedule (General, Continuous); MD (Video detection: Motion Detection, Video Loss, Tampering);	Power Consumption (Without HDD)	< 10 W
	Alarm; Stop 1 min-60 min (default: 60 min), Pre-record: 1 sec-30 sec,	Construction	
Record Interval	Post-record: 10 sec-300 sec	Dimensions	Compact 1U, 260.0 mm × 231.4 mm × 47.6 mm (10.24" × 9.11" × 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	Certifications	, , , , , , , , , , , , , , , , , , , ,
OSD	Camera title; Time; Video loss; Camera lock; Motion detection; Recording	Certifications	CE LVD : EN 62368-1 CE EMC: EN55032 EN55024 EN55035 EN61000-3-2
Network			EN61000-3-3
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		

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