



DH-XVR1B16-I

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





- Supports Full-channel Al-Coding
- · Supports HDCVI/AHD/TVI/CVBS/IP video inputs

· H.265+/H.265 dual-stream video compression

- 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













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.

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 1080p and 1200 m for 720p.

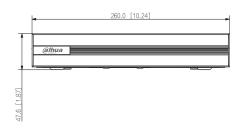


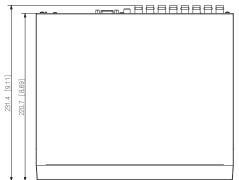
Technical Specification	Smart Phone	iPhone; iPad; Android
System	Interoperability	ONVIF 16.12, CGI Conformant
Main Processor Embedded processor	Video Detection an	d Alarm
Operating System Embedded linux	Trigger Events	Recording; PTZ; Tour; Video Push; Email; FTP; Snapshot; Buzzer and Screen Tips
SMD Plus	Video Detection	Motion Detection, MD Zones: 396 (22 × 18), Video Loss, Tampering and Diagnosis
Performance 8 channels	Alarm input	N/A
Al Search Search by target classification (Human, Vehicle)	Relay Output	N/A
Video and Audio	Playback and Backu	ıp
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		second) Play; Pause; Stop; Rewind; Fast play; Slow Play; Next File
TVI Camera 1080p@ 25/30 fps, 720p@ 25/30 fps	Playback Function	Previous File; Next Camera; Previous Camera; Full Scree 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 6 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
Main Stream:	RS485	N/A
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)	Electrical	
Sub stream: CIF/QCIF (1 fps–7 fps)	Power Supply	DC 12V/2A
Video Bit Rate 32 kbps-4096 kbps per channel	Power Consumption (Without HDD)	< 10W
Manual; Schedule (General, Continuous); MD (Video Record Mode 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 Suppor	t
OSD Camera title; Time; Video loss; Camera lock; Motion detection; Recording	Third-party Support	Dahua, Arecont Vision, AXIS; Bosch, Brickcom, Canon, C Plus, Dynacolor, Honeywell, Panasonic, Pelco, Samsung, Sanyo, Sony, Videotec, Vivotek, and more
Network	Certifications	sy sony, masses, thosely and more
Interface 1 RJ-45 Port (100 MB)	cer unications	FCC: Part 15 Subpart B
HTTP; HTTPS; TCP/IP; IPv4/IPv6; UPnP; RTSP; UDP; SMTP; Network Function NTP; DHCP; DNS; IP Filter; DDNS; FTP; Alarm Server; P2P; IP Search (Supports Dahua IP camera, DVR, NVS, etc.)	Certifications	CE: CE-LVD: EN 60950-1/IEC 60950-1 CE-EMC: EN 61000-3-2; EN 61000-3-3; EN 55032; EN 50 EN 55024
Max. User Access 128 users		UL: UL 60950-1



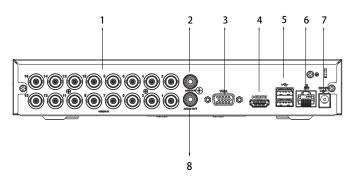
Ordering Information		
Туре	Part Number	Description
16 Channel WizSense XVR	DH-XVR1B16-I	16 Channel Penta-brid 1080N/720p Compact 1U WizSense Digital Video Recorder

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