



# DH-XVR4116HS-I

# 16 Channel Penta-brid 720p Compact 1U 1HDD WizSense Digital Video Recorder





- · H.265+/H.265 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















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, WizSense 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**

#### Smart Fan Design

The smart fan can automatically turn on or turn off according to the CPU temperature. This function can effectively reduce the fan noise to provide a better user experience.

#### **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**

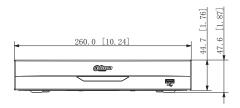
The HDCVI system supports long distance transmission over coaxial cable and UTP, max. 700 m for 4K/4MP, 800 m for 1080p and 1200 m for 720p.

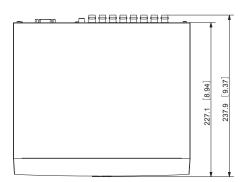
Technical Specification		Interoperability	ONVIF 16.12, CGI Conformant
System		Video Detection and Alarm	
Main Processor	Embedded processor	Trigger Events	Recording, PTZ, Tour, Video Push, Email, FTP, Snapshot, Buzzer and Screen Tips
Operating System	Embedded linux	Video Detection	Motion Detection, MD Zones: 396 (22 × 18), Video Loss,
SMD Plus		Video Detection	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 Backup	
Analog Camera Input	16 channels, BNC	Playback	1/4/9/16
HDCVI Camera	1080p@ 25/30 fps, 720p@ 50/60 fps, 720p@ 25/30 fps	Search Mode	Time/Date, Alarm, MD and Exact Search (accurate to second)
AHD Camera	1080p@ 25/30 fps, 720p@ 25/30 fps		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	Deslara Mede	
IP Camera Input	16+2 channels: each channel up to 6MP	Backup Mode	USB Device/Network
Audio In/Out	1/1, RCA	Storage	
Two-way Talk	Reuse audio in/out, RCA	Internal HDD	1 SATA port, up to 10 TB capacity
Recording		eSATA	N/A
Video Compression	Al Coding/H.265+/H.265/H.264+/H.264	Auxiliary Interface	
Resolution	1080N; 720p; 960H; D1; CIF	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/CIF (1 fps-25/30 fps) Sub steram:	RS232	N/A
		RS485	1 port, for PTZ control
	CIF (1 fps-7 fps)	Electrical	
Video Bit Rate	32 kbps–4096 kbps per channel  Manual; Schedule (General, Continuous); MD (Video	Power Supply	DC 12V/2A
Record Mode	detection: Motion Detection, Video Loss, Tampering); Alarm; Stop	Power Consumption (without HDD)	< 10W
Record Interval	$1\mathrm{min}{-}60\mathrm{min}$ (default: $60\mathrm{min}$ ), Pre-record: $1\mathrm{sec}{-}30\mathrm{sec}$ , Post-record: $10\mathrm{sec}{-}300\mathrm{sec}$	Construction	
Audio Compression	G.711A; G.711U; PCM	Dimensions	Compact 1U, 260.0 mm × 237.9 mm × 47.6 mm (10.24" × 9.37" × 1.87")
Audio Sample Rate	8 KHz, 16 bit per channel	Net Weight (without HDD)	1.042 kg (3.00 lb)
Audio Bit Rate	64 kbps per channel	Gross Weight	1.48 kg (3.26 lb)
Display		Installation	Desktop installation
Interface	1 HDMI; 1 VGA	Environmental	
Resolution	1920 × 1080; 1280 × 1024; 1280 × 720	Operating Conditions	-10°C to +55°C (+14°F to +131°F), 10%–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	Storage Conditions	-20°C to +70°C (-4°F to +158°F), 0%–90% (RH)
OSD	Camera title; Time; Video loss; Camera lock; Motion	Third-party Suppo	ort
Network	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
Interface	1 RJ-45 Port (100 MB)	Certifications	
Network Function	HTTP; HTTPS; TCP/IP; IPv4/IPv6; Wi-Fi; 3G/4G; UPnP; RTSP; UDP; SMTP; NTP; DHCP; DNS; IP Filter; PPPoE; DDNS; FTP; Alarm Server; P2P; IP Search (Supports Dahua IP camera, DVR, NVS, etc.)	Seremoutoris	FCC: Part 15 Subpart B  CE: CE-LVD: EN 60950-1/IEC 60950-1
Max. User Access	128 users		CE-EMC: EN 61000-3-2; EN 61000-3-3; EN 55032; EN 50
Smart Phone	iPhone; iPad; Android		UL: UL 60950-1



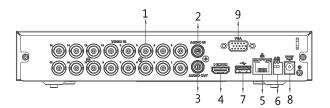
Ordering Information			
Туре	Part Number	Description	
16 Channel WizSense XVR	DH-XVR4116HS-I	16 Channel Penta-brid 720p Compact 1U WizSense Digital Video Recorder	

# Dimensions (mm[inch])





## **Panels**



- 1 VIDEO IN
- 2 AUDIO IN, RCA Connector
- 3 AUDIO OUT, RCA Connector
- 4 HDMI Interface
- 5 Network Interface
- 6 RS485 Interface
- 7 USB Interface
- 8 DC 12V Power Input
- 9 VGA Interface