



DH-XVR5104HS-I3

4 Channel Penta-brid 5M-N/1080p 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, XVR5000-I3 featuring full-channel SMD Plus (except for 32-channel devices) 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

Real Time Face Recognition

Video stream real time face recognition. Facial attributes analysis features including gender, age, expression, glasses, moustache, mouth mask. Identify people and also capture, record faces with metadata. Facial feature filtering while real time display, only show faces with target features.

*Face Recognition takes effect when Face is selected in AI Mode.

Perimeter Protection

Automatically filtering out false alarms caused by animals, rustling leaves, bright lights, etc. Enables system to act secondary recognition for the targets. Improving alarm accuracy.

*Perimeter Protection takes effect when IVS&SMD is selected in AI Mode.

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

- H.265+/H.265 dual-stream video compression
- · Supports Full-channel AI-Coding
- Supports HDCVI/AHD/TVI/CVBS/IP video inputs
- Max 6 channels IP camera inputs, each channel up to 6MP; Max 32 Mbps incoming bandwidth
- Up to 1 channel video stream (analog channel) Perimeter Protection
- Up to 4 channels video stream (analog channel) SMD Plus
- $\boldsymbol{\cdot}$ Up to 1 channel video stream (analog channel) human face recognition
- · IoT & POS functionalities



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 5MP 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.

AI Search

Extract and classify person and vehicles from massive video data, easy for end users to trace historical information and analyze. Person & Vehicle optional for playback to achieve quick target search, saving event retrieval tme.





Technical Specification		Audio Compression	G.711A; G.711U; PCM
System		Audio Sample Rate	8 KHz, 16 bit per channel
Main Processor	Embedded processor	Audio Bit Rate	64 kbps per channel
Operating System	Embedded linux	Display	
Perimeter Protection		Interface	1 HDMI; 1 VGA
Performance	1 channel, 10 IVS for each channel	Resolution	1920 × 1080; 1280 × 1024; 1280 × 720
Object classification	Human/Vehicle secondary recognition for tripwire and intrusion	Multi-screen Display	When IP extension mode not enabled: 1/4 When IP extension mode enabled: 1/4/6
Al Search	Search by target classification (Human, Vehicle)	OSD	Camera title; Time; Video loss; Camera lock; Motion detection; Recording
Face Recognition		Network	
	Max 8 face pictures/sec processing	Interface	1 RJ-45 Port (100 MB)
Performance	1 channel video stream face recognition, only support analog camera Detect strangers' faces (not in device's face database).	Network Function	HTTP; HTTPS; TCP/IP; IPv4/IPv6; Wi-Fi; 3G/4G; SNMP; UPnP; RTSP; UDP; SMTP; NTP; DHCP; DNS; IP Filter; PPPoE; DDNS; FTP; Alarm Server; P2P; IP Search
Stranger Mode	Similarity threshold can be set manually		(Supports Dahua IP camera, DVR, NVS, etc.)
Al Search	Up to 8 target face images search at same time, similarity threshold can be set for each target face image	Max. User Access	128 users
	Up to 10 face databases with 10,000 face images in total. Name, gender, birthday, address, certificate type,	Smart Phone	iPhone; iPad; Android
Database Management	cerificate No., countries®ions and state can be added to each face picture	Interoperability	ONVIF 16.12, CGI Conformant
Database Application	Each database can be applied to video channels independently	Video Detection an Trigger Events	Recording, PTZ, Tour, Video Push, Email, FTP, Snapshot
Trigger Events	Buzzer, Voice Prompts, Email, Snapshot, Recording, Alarm Out, PTZ Activation, etc.	Video Detection	Buzzer and Screen Tips Motion Detection, MD Zones: 396 (22 × 18), Video Los Tampering and Diagnosis
SMD Plus		Alarm input	N/A
Performance	4 channels	Relay Output	N/A
Al Search	Search by target classification (Human, Vehicle)	Playback and Backu	·
Video and Audio		Playback	1/4
Analog Camera Input	4 channels, BNC	Search Mode	Time/Date, Alarm, MD and Exact Search (accurate to
HDCVI Camera Input	5MP, 4MP, 1080p@ 25/30 fps, 720p@ 50/60 fps, 720p@ 25/30 fps	Playback Function	second) Play; Pause; Stop; Rewind; Fast play; Slow Play; Next File; Previous File; Next Camera; Previous Camera; Ful
AHD Camera Input	5MP, 4MP, 1080p@ 25/30 fps, 720p@ 25/30 fps	Trayback Farretton	Screen; Repeat; Shuffle; Backup Selection; Digital Zoo
TVI Camera Input	5MP, 4MP, 1080p@ 25/30 fps, 720p@ 25/30 fps	Backup Mode	USB Device/Network
CVBS Camera Input	PAL/NTSC	Storage	
IP Camera Input	4+2 channels, each channel up to 6MP	Internal HDD	1 SATA port, up to 6 TB capacity
Audio In/Out	1/1, RCA	eSATA	N/A
Two-way Talk	Reuse audio in/out, RCA	Auxiliary Interface	
Recording		USB	2 USB ports (USB 2.0)
Compression	AI Coding/H.265+/H.265/H.264+/H.264	RS485	1 port, for PTZ control
Resolution	5M-N; 4M-N; 1080p; 1080N; 720p; 960H; D1; CIF	RS232	N/A
Record Rate	Main stream: All channel 5M-N (1 fps-10 fps); 4M-N/1080p (1 fps-15 fps); 1080N/720p/960H/ D1/CIF (1 fps-25/30 fps)	Electrical	
	Sub stream: D1/CIF (1 fps–15fps)	Power Supply	DC 12V/1.5A
Bit Rate	32 kbps–6144 kbps per channel	Power Consumption (Without HDD)	< 4W
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 s-30 s, Post-record: 10 s-300 s	Dimensions	Compact 1U, 260.0 mm × 237.9 mm × 47.6 mm (10.24" × 9.37" × 1.87")





Net Weight (without HDD)	0.84 kg (1.85 lb)			
Gross Weight	1.37 kg (3.02 lb)			
Installation	Desktop installation			
Environmental				
Operating Conditions	-10°C to +45°C (+14°F to +113°F), 0%–90% (RH)			

Third-party Support

Storage Conditions

Third-party Support Plus	nua, Arecont Vision, AXIS, Bosch, Brickcom, Canon, CP s, Dynacolor, Honeywell, Panasonic, Pelco, Samsung, yo, Sony, Videotec, Vivotek, and more
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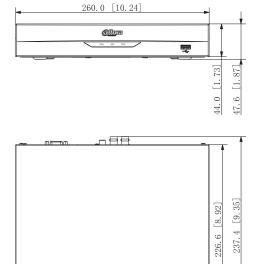
-20°C to +70°C (-4°F to +158°F), 0%-90% (RH)

Certifications

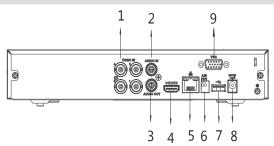
	FCC: Part 15 Subpart B
Certifications	CE: CE-LVD: EN 60950-1/IEC 60950-1 CE-EMC: EN 61000-3-2; EN 61000-3-3; EN 55032; EN 50130: EN 55024

Ordering Information				
Туре	Model	Description		
4 Channel WizSense XVR	DH-XVR5104HS-I3	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



