

DH-XVR5108/16H-I

8/16 Channel Penta-brid 1080P Mini 1U Digital Video Recorder



- H.265+/H.265 dual-stream video compression
- Supports HDCVI/AHD/TVI/CVBS/IP video inputs
- Max 12/24 channels IP camera inputs, each channel up to 6MP; Max 48/96Mbps Incoming Bandwidth
- · Perimeter Protection and SMD Plus
- Up to 2 channels video stream (analog channel) human face detection
- IoT & POS functionalities

System Overview

Dahua Technology, a world-leading video-centric smart IoT solution and service provider, debuted its new XVR series, XVR5000-I/XVR7000-4KL-I featuring full-channel 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.

Renovated from the original SMD technology running on CPU, the new SMD Plus adopts independent AI smart chip loaded with new deep-learning algorithm, enabling the computing power improved by 10 times. As a result, SMD Plus can recognize moving objects and differentiate human and vehicles, so as to effectively avoid false alarms caused by tree branches, insects, shadows, wind or other environmental factors. Meanwhile, users are allowed to select people or vehicles for playback, thus greatly saved target search time.

Functions

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.

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.

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. 700m for 4K/4MP, 800m for 1080P and 1200m for 720P.

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.

Smart Search

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

IoT Functionality

HDCVI IoT can achieve multi-dimensional surveillance by integrating sensors with monitoring video, which not only can generate the report for analysis but also prevent risk in advance.

POS Functionality

This funcion includes POS ticket information overlay and search which can be widely used in retail programs.

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.



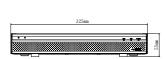
Al Series | DH-XVR5108/16H-I

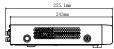
Technical Specifica	ation	Bit Rate	32Kbps–6144Kbps Per Channel	
System			Manual, Schedule (General, Continuous), MD (Video	
Main Processor	Embedded Processor	Record Mode	detection: Motion Detection, Video Loss, Tampering), Alarm, Stop	
Operating System	Embedded LINUX	Record Interval	1–60 min (default: 60 min), Pre-record: 1 sec–30 sec, Post- record: 10 sec–300 sec	
Perimeter Protection		Audio Compression	AAC(only for the 1st channel), G.711A, G.711U, PCM	
Perimeter protection	 1.AI by DVR: Detection alarm for human and vehicle. Filter misinformation such as leaves and light. 2.Function configuration: Set at most 10 rules such as area intrusion and tripwire intrusion. 	Audio Sample Rate	8KHz, 16 bit Per Channel	
		Audio Bit Rate	64Kbps Per Channel	
	3.Performance: 2 channels 1. Rule box inspection: Configure the rule box and object	Display		
	inspection box. 2.Smart panel: Display object classification (human, vehicle), event types, triggering time, image matting and object types. Attribute is not supported. 3. Counting: Count people in Peopletotal. Count motor vehicles in Vehicle. Support exporting of associated event playback before and after 10 seconds.	Interface	1 HDMI ,1 VGA	
Live View		Resolution	HDMI: 8CH: 1920×1080, 1280×1024, 1280×720 16CH: 3840×2160, 2560×1440, 1920×1080, 1280×1024, 1280×720 VGA: 1920×1080, 1280×1024, 1280×720	
Playback	 Search conditions: According to channels, time, event types and target types. Functions: Support search of associated event playback or snapshot before and after 10 seconds. Snapshot capacity: 500,000 	Multi-screen Display	When IP extension mode not enabled: 8CH: 1/4/8/9 16CH: 1/4/8/9/16 When IP extension mode enabled: 8CH: 1/4/8/9/16	
Face Detection			16CH: 1/4/8/9/16/25	
Performance	 UP to 12 face pictures/sec processing (modeling and comparing). Up to 2 channels video stream (analog channel) human face 	OSD	Camera title, Time, Video loss, Camera lock, Motion detection, Recording	
	detection. 3. Up to 300,000 face detection events in total.	Network		
Database Application	Each database can be applied to video channels independently.	Interface	8CH: 1 RJ-45 Port (100M) 16CH: 1 RJ-45 Port (1000M)	
Trigger Events SMD Plus	Buzzer, Voice Prompts, Email, Snapshot, Recording, Alarm Out, PTZ Activation, etc.	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,	
SMD Plus	 AI by DVR: Motion detection alarm for human and vehicle. Filter misinformation such as leaves and light. Performance: 8/16 channels , AI by DVR 	Max. User Access	DVR, NVS, etc.) 128 users	
		Smart Phone	iPhone, iPad, Android	
Preview	Preview: Configure and inspect detection box	Interoperability	ONVIF 16.12, CGI Conformant	
Playback	1.Playback: Search videos through channels, time and target types. 2.Functions: Support search of associated event playback		id Alarm	
Video and Audio	before and after 10 seconds.	Trigger Events	Recording, PTZ, Tour, Video Push, Email, FTP, Snapshot, Buzzer and Screen Tips	
Analog Camera Input	8/16 Channel, BNC	Video Detection	Motion Detection, MD Zones: 396 (22 × 18), Video Loss,	
HDCVI Camera	5MP, 4MP, 1080P@25/30fps, 720P@50/60fps, 720P@25/30fps		Tampering and Diagnosis	
AHD Camera	5MP, 4MP, 1080P@25/30, 720P@25/30fps	Alarm input	N/A	
TVI Camera	5MP, 4MP, 1080P@25/30, 720P@25/30fps	Relay Output	N/A	
CVBS Camera	PAL/NTSC	Playback and Back		
IP Camera Input	8+4/16+8 Channel, each channel up to 6MP	Playback	8CH: 1/4/9 16CH: 1/4/9/16	
Audio In/Out	1/1, RCA	Search Mode	Time /Date, Alarm, MD and Exact Search (accurate to second)	
Two-way Talk	Reuse audio in/out, RCA	Playback Function	Play, Pause, Stop, Rewind, Fast play, Slow Play, Next File, Previous File, Next Camera, Previous Camera, Full Screen,	
Recording			Repeat, Shuffle, Backup Selection, Digital Zoom	
Compression	H.265+/H.265/H.264+/H.264	Backup Mode	USB Device/Network	
Resolution	5M-N, 4M-N, 1080P, 1080N, 720P, 960H, D1, CIF	Storage		
Record Rate	Main stream:All channel 5M-N(1fps–10fps); 4M-N/1080P(1fps– 15fps); 1080N/720P/960H/D1/CIF (1fps–25/30fps) Sub stream: D1/CIF(1fps–15fps)	Internal HDD	1 SATA Port, up to 10TB capacity	
		eSATA	N/A	

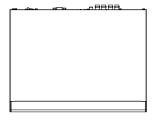
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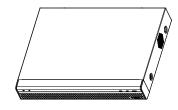
Auxiliary Interface				
USB	8CH:2 USB 2.0 16CH:1 USB 2.0 , 1 USB 3.0			
RS232	N/A			
RS485	1 Port, for PTZ Control			
Electrical				
Power Supply	DC 12V/2A			
Power Consumption (without HDD)	8CH: <10W 16CH: <15W			
Construction				
Dimensions	Mini 1U, 325mm×255mm×55mm (12.8" x 10" x 2.2")			
Net Weight (without HDD)	8CH: 1.2kg (2.6 lb) 16CH: 1.3kg (2.9 lb)			
Gross Weight	8CH: 1.9kg (4.2lb) 16CH: 2kg (4.4 lb)			
Installation	Desktop installation			
Environmental				
Operating Conditions	-10°C to +55°C (+14°F to +131°F), 10%–90% RH			
Storage Conditions	-20°C to +70°C (-4°F to +158°F) , 0–90% RH			
Third-party Support				
Third-party Support	Dahua, Arecont Vision, AXIS, Bosch, Brickcom, Canon, CP Plus, Dynacolor, Honeywell, Panasonic, Pelco, Samsung, Sanyo, Sony, Videotec, Vivotek, and more			
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			

Dimensions (mm)









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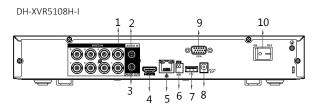
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Rear Panel

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Network Interface



CE-EMC: EN 61000-3-2, EN 61000-3-3, EN 55032, EN 50130, EN 55024

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

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Ordering Information				
Туре	Part Number	Description		
0/16 Channel VV/D	DH-XVR5108H-I	8 Channel Penta-brid 1080P Mini 1U Digital Video Recorder		
8/16 Channel XVR	DH-XVR5116H-I	16 Channel Penta-brid 1080P Mini 1U Digital Video Recorder		

9	VGA Interface	
10	Power Switch	



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