

DH-XVR5104H-I

4 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 6 channels IP camera inputs, each channel up to 6MP; Max 24Mbps 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 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 function 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-XVR5104H-I

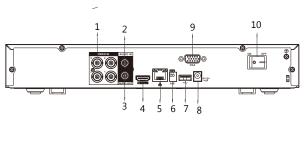
Technical Specification		Bit Rate	32Kbps–6144Kbps Per Channel
System			Manual, Schedule (General, Continuous), MD (Video
Main Processor	Embedded Processor	Record Mode	detection: Motion Detection, Video Loss, Tampering), Alarm, Stop
Operating System	Embedded LINUX	Record Interval	1 – 60 min (default: 60 min), Pre-record: 1 sec–30 sec, Post-record: 10 sec–300 sec
Perimeter Protecti	on	Audio Compression	AAC(only for the 1st channel), G.711A, G.711U, PCM
	 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
Perimeter protection		Audio Bit Rate	64Kbps Per Channel
	 Performance: 2 channels Rule box inspection: Configure the rule box and object inspection box. Smart panel: Display object classification (human, vehicle), event types, triggering time, image matting and object types. Attribute is not supported. Counting: Count people in Peopletotal. Count motor vehicles in Vehicle. Support exporting of associated event playback before and after 10 seconds. 	Display	
		Interface	1 HDMI ,1 VGA
Live View		Resolution	1920×1080, 1280×1024, 1280×720
		Multi-screen Display	When IP extension mode not enabled: 1/4 When IP extension mode enabled: 1/4/8
	 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. 	OSD	Camera title, Time, Video loss, Camera lock, Motion detection, Recording
Playback		Network	
	3. Snapshot capacity: 500,000	Interface	1 RJ-45 Port (100M)
Face Detection Performance	 UP to 12 face pictures/sec processing (modeling and comparing). Up to 2 channels video stream (analog channel) human face detection. 	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 (Supports Dahua IP camera, DVR, NVS, etc.)
	3. Up to 300,000 face detection events in total.	Max. User Access	128 users
Database Application	Each database can be applied to video channels independently.	Smart Phone	iPhone, iPad, Android
Trigger Events	Buzzer, Voice Prompts, Email, Snapshot, Recording, Alarm Out, PTZ Activation, etc.	Interoperability	ONVIF 16.12, CGI Conformant
SMD Plus		Video Detection and Alarm	
SMD Plus	 AI by DVR: Motion detection alarm for human and vehicle. Filter misinformation such as leaves and light. Performance: 4 channels , AI by DVR 	Trigger Events	Recording, PTZ, Tour, Video Push, Email, FTP, Snapshot, Buzzer and Screen Tips
Preview	Preview: Configure and inspect detection box	Video Detection	Motion Detection, MD Zones: 396 (22 × 18), Video Loss, Tampering and Diagnosis
Playback	 Playback: Search videos through channels, time and target types. Functions: Support search of associated event playback 	Alarm input	N/A
	before and after 10 seconds.	Relay Output	N/A
Video and Audio		Playback and Backup	
Analog Camera Input	4 Channel, BNC	Playback	1/4
HDCVI Camera	5MP, 4MP, 1080P@25/30fps, 720P@50/60fps, 720P@25/30fps		Time /Date, Alarm, MD and Exact Search (accurate to
AHD Camera	5MP, 4MP, 1080P@25/30, 720P@25/30fps	Search Mode	second)
TVI Camera	5MP, 4MP, 1080P@25/30, 720P@25/30fps	Playback Function	Play, Pause, Stop, Rewind, Fast play, Slow Play, Next File, Previous File, Next Camera, Previous Camera, Full Screen,
CVBS Camera	PAL/NTSC		Repeat, Shuffle, Backup Selection, Digital Zoom
IP Camera Input	4+2 Channel, 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 6TB capacity
Recording		eSATA	N/A
Compression	H.265+/H.265/H.264+/H.264	Auxiliary Interface	
Resolution	5M-N, 4M-N, 1080P, 1080N, 720P, 960H, D1, CIF	USB	2 USB 2.0
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)	RS232	N/A
		RS485	1 Port, for PTZ Control

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Electrical				
Power Supply	DC 12V/1.5A			
Power Consumption (Without HDD)	<10W			
Construction				
Dimensions	Mini 1U, 325mm×255mm×55mm (12.8" x 10" x 2.2")			
Net Weight (without HDD)	1.0kg (2.2lb)			
Gross Weight	1.9kg (4.2lb)			
Installation	Desktop installation			
Environmental				
Operating Conditions	-10°C to +45°C (+14°F to +113°F), up to 55°C/131°F with case fan, 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, ANSI C63.4 & 47 CFR PART 15B / UL			
Certifications	CE: CE-LVD: EN 60950-1/IEC 60950-1, EN62368-A:2014 +A11:2017, CE-			
	EMC: EN 61000-3-2, EN 61000-3-3, EN 55032, EN 50130, EN 55024			

Rear Panel

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1	VIDEO IN : 4 x 1.0 Vp-p 75Ω	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
5	Network Interface	10	Power Switch

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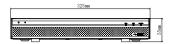
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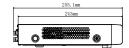
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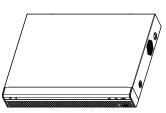
Туре	Part Number	Description
4 Channel XVR	DH-XVR5104H-I	4 Channel Penta-brid 1080P Mini 1U Digital Video Recorder

Dimensions (mm)









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