

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



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 information and analyze. Person & Vehicle optional for playback to achieve quick target search, saving event retrieval tme.



Technical Specification		Display	
System		Interface	1 HDMI ,1 VGA
Main Processor	Embedded Processor	Resolution	1920×1080, 1280×1024, 1280×720
Operating System	Embedded LINUX	Multi-screen Display	When IP extension mode not enabled: 1/4 When IP extension mode enabled: 1/4/8
Perimeter Protecti		OSD	Camera title, Time, Video loss, Camera lock, Motion detection, Recording
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. 3.Performance: 2 channels	Network	detection, necorating
		Interface	1 RJ-45 Port (100M)
Live View	1. Rule box inspection: Configure the rule box and object inspection box. 2. Smart panel: Display object classification (human, vehicle), event types, triggering time, image matting and object types.	Network Function	HTTP, HTTPS, TCP/IP, IPv4/IPv6, Wi-Fi, 3G/4G, SNMP, UP. RTSP, UDP, SMTP, NTP, DHCP, DNS, IP Filter, PPP0E, DDNS, FTP, Alarm Server, P2P,IP Search (Supports Dahua IP camera, DVR, NVS, etc.)
	Attribute is not supported. 3. Counting: Count people in Peopletotal. Count motor vehicles	Max. User Access	128 users
	in Vehicle. Support exporting of associated event playback before and after 10 seconds.	Smart Phone	iPhone, iPad, Android
	Search conditions: According to channels, time, event types	Interoperability	ONVIF 16.12, CGI Conformant
	and target types.	Video Detection a	nd Alarm
Playback	2.Functions: Support search of associated event playback or snapshot before and after 10 seconds. 3. Snapshot capacity: 500,000	Trigger Events	Recording, PTZ, Tour, Video Push, Email, FTP, Snapshot, Buzzer and Screen Tips
SMD Plus		Video Detection	Motion Detection, MD Zones: 396 (22 \times 18), Video Loss, Tampering and Diagnosis
	1. Al by DVR: Motion detection alarm for human and vehicle. Filter misinformation such as leaves and light. 2. Performance: 4 channels , Al by DVR	Alarm input	N/A
SMD Plus		Relay Output	N/A
Preview	Preview: Configure and inspect detection box	Playback and Back	cup
rieview		Playback	1/4
Playback	1.Playback: Search videos through channels, time and target types. 2.Functions: Support search of associated event playback	Search Mode	Time /Date, Alarm, MD and Exact Search (accurate to second)
before and after 10 seconds. Video and Audio		Playback Function	Play, Pause, Stop, Rewind, Fast play, Slow Play, Next File, Previous File, Next Camera, Previous Camera, Full Screen Repeat, Shuffle, Backup Selection, Digital Zoom
Analog Camera Input	4 Channel, BNC	Backup Mode	USB Device/Network
HDCVI Camera	5MP, 4MP, 1080P@25/30fps, 720P@50/60fps, 720P@25/30fps		,
AHD Camera	5MP, 4MP, 1080P@25/30, 720P@25/30fps	Storage	1 CATA D. I. CTD. "
TVI Camera	5MP, 4MP, 1080P@25/30, 720P@25/30fps	Internal HDD	1 SATA Port, up to 6TB capacity
CVBS Camera	PAL/NTSC	eSATA	N/A
IP Camera Input	4+2 Channel, each channel up to 6MP	Auxiliary Interface	
Audio In/Out	1/1, RCA	USB	2 USB 2.0
Two-way Talk	Reuse audio in/out, RCA	RS232	N/A
·	Reuse audio injout, RCA	RS485	1 Port, for PTZ Control
Recording		Electrical	
Compression	H.265+/H.265/H.264+/H.264	Power Supply	DC12V/1.5A
Resolution	5M-N, 4M-N, 1080P, 1080N, 720P, 960H, D1, CIF	Power Consumption (Without HDD)	<10W
Record Rate	Main stream: All channel 5M-N(1~10fps); 4M-N/1080P(1~15fps); 1080N/720P/960H/ D1/CIF (1~25/30fps)	Construction	
	Sub stream: D1/CIF(1~15fps)	Dimensions	Mini 1U, 325mm×255mm×55mm (12.8" x 10" x 2.2")
Bit Rate	32Kbps ~ 6144Kbps Per Channel Manual Schodula (Continuous) MD (Video detection)	Net Weight (without HDD)	1.0kg (2.2lb)
Record Mode	Manual, Schedule (General, Continuous), MD (Video detection: Motion Detection, Video Loss, Tampering), Alarm, Stop	Gross Weight	1.9kg (4.2lb)
Record Interval	$1^{\sim}60$ min (default: 60 min), Pre-record: $1^{\sim}30$ sec, Post-record: $10^{\sim}300$ sec	Installation	Desktop installation
Audio Compression	AAC(only for the 1st channel), G.711A, G.711U, PCM		
Audio Sample Rate	8KHz, 16 bit Per Channel		

Al Series | DH-XVR5104H-I

Environmental

Operating Conditions	-10°C $^{\sim}$ +45°C (+14°F $^{\sim}$ +113°F), up to 55°C/131°F with case fan, 10 $^{\sim}$ 90% RH
Storage Conditions	-20°C ~ +70°C (-4°F ~ +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
---------------------	---

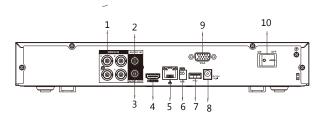
Certifications

	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 55024

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

Rear Panel

DH-XVR5104H-I



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
5	Network Interface	10	Power Switch

Dimensions (mm)



