

PVR08/16H1-X

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



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 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		HDMI:
Operating System	Embedded LINUX	Resolution	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
Perimeter Protecti	on		
Perimeter protection	1.Al 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	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 16CH: 1/4/8/9/16/25
	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. 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.	OSD	Camera title, Time, Video loss, Camera lock, Motion detection, Recording
Live View		Network	
		Interface	8CH: 1 RJ-45 Port (100M) 16CH: 1 RJ-45 Port (1000M)
Playback	Search conditions: According to channels, time, event types and target types. Prunctions: Support search of associated event playback or snapshot before and after 10 seconds.	Network Function	HTTP, HTTPS, TCP/IP, IPv4/IPv6, Wi-Fi, 3G/4G, UPnP, RTSI UDP, SMTP, NTP, DHCP, DNS, IP Filter, PPP0E, DDNS, FTP, Alarm Server, P2P, IP Search (Supports Dahua IP camera, DVR, NVS, etc.)
	3. Snapshot capacity: 500,000	Max. User Access	128 users
SMD Plus		Smart Phone	iPhone, iPad, Android
SMD Plus	1. Al by DVR: Motion detection alarm for human and vehicle. Filter misinformation such as leaves and light.	Interoperability	ONVIF 16.12, CGI Conformant
	2. Performance: 8/16 channels , AI by DVR Video Detection and Alarm		nd Alarm
Playback	Preview: Configure and inspect detection box 1. Playback: Search videos through channels, time and target types. 2. Functions: Support search of associated event playback before and after 10 seconds.	Trigger Events	Recording, PTZ, Tour, Video Push, Email, FTP, Snapshot, Buzzer and Screen Tips
		Video Detection	Motion Detection, MD Zones: 396 (22 \times 18), Video Loss, Tampering and Diagnosis
Video and Audio		Alarm input	N/A
Analog Camera Input	8/16 Channel, BNC	Relay Output	N/A
HDCVI Camera	5MP, 4MP, 1080P@25/30fps, 720P@50/60fps, 720P@25/30fps	Playback and Back	
AHD Camera	5MP, 4MP, 1080P@25/30, 720P@25/30fps	Playback	8CH: 1/4/9 16CH: 1/4/9/16
TVI Camera	5MP, 4MP, 1080P@25/30, 720P@25/30fps	Search Mode	Time /Date, Alarm, MD and Exact Search (accurate to second)
CVBS Camera	PAL/NTSC		Play, Pause, Stop, Rewind, Fast play, Slow Play, Next File, Previous File, Next Camera, Previous Camera, Full Screen Repeat, Shuffle, Backup Selection, Digital Zoom
IP Camera Input	8+4/16+8 Channel, each channel up to 6MP	Playback Function	
Audio In/Out	1/1, RCA	Backup Mode	USB Device/Network
Two-way Talk	Reuse audio in/out, RCA	Storage	·
Recording		Internal HDD	1 CATA Post up to 10TP conscitu
Compression	H.265+/H.265/H.264+/H.264	IIIternal HDD	1 SATA Port, up to 10TB capacity
Resolution	5M-N, 4M-N, 1080P, 1080N, 720P, 960H, D1, CIF	eSATA	N/A
Record Rate	Main stream:All channel 5M-N(1~10fps); 4M-N/1080P(1~15fps); 1080N/720P/960H/D1/CIF (1~25/30fps) Sub stream: D1/CIF(1~15fps)	Auxiliary Interface	
Bit Rate	32Kbps ~ 6144Kbps Per Channel	USB	8CH:2 USB 2.0 16CH:1 USB 2.0 , 1 USB 3.0
	Manual, Schedule (General, Continuous), MD (Video detection:	RS232	N/A
Record Mode	Motion Detection, Video Loss, Tampering), Alarm, Stop	RS485	1 Port, for PTZ Control
Record Interval	$1^{\sim}60$ min (default: 60 min), Pre-record: $1^{\sim}30$ sec, Post-record: $10^{\sim}300$ sec	Electrical	
Audio Compression	AAC(only for the 1st channel), G.711A, G.711U, PCM	Power Supply	DC12V/2A
Audio Sample Rate	8KHz, 16 bit Per Channel	Power Consumption (without HDD)	8CH: <10W 16CH: <15W
Audio Bit Rate	64Kbps Per Channel		

Al Series | PVR08/16H1-X

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 ~ +55°C (+14°F ~ +131°F), 10%~ 90% RH
Storage Conditions	-20°C ~ +70°C (-4°F ~ +158°F) , 0~ 90% RH

Third-party Support

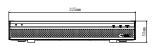
	Dahua, Arecont Vision, AXIS, Bosch, Brickcom, Canon, CP Plus,
Third-party Support	Dynacolor, Honeywell, Panasonic, Pelco, Samsung, Sanyo, Sony,
	Videotec, Vivotek, and more

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

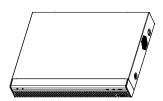
Ordering Information Type Part Number Description 8 Channel Penta-brid 1080P Mini 1U Digital Video Recorder 8/16 Channel XVR 16 Channel Penta-brid 1080P Mini 1U Digital Video Recorder

Dimensions (mm)

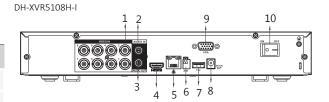


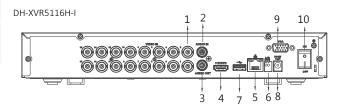






Rear Panel





1 VIDEO IN 6 RS485 Interface 2 AUDIO IN, RCA Connector 7 USB Interface 3 DC 12V Power Input AUDIO OUT, RCA Connector 8 4 HDMI Interface 9 VGA Interface 5 Network Interface 10 Power Switch

