

DH-XVR7216A-4KL-I

16 Channel Penta-brid 4K 1U Digital Video Recorder



\cdot H.265+/H.265 dual-stream video compression

· Supports HDCVI/AHD/TVI/CVBS/IP video inputs

 \cdot Supports 32 channels of IPC access, each channel up to

- 8MP input; Max 128Mbps Incoming Bandwidth
- \cdot IoT & POS functionalities
- \cdot 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 80% 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.

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.

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.

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.

Spot Output

It is made for a secondary monitor. This allows the operator to view one special monitor that assigned to selected cameras or video inputs from higher security areas.

Smart Search

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



Al Series | DH-XVR7216A-4KL-I

Technical Specification		Display		
System		Interface	1 HDMI, 1 VGA	
, Main Processor	Embedded Processor		HDMI:3840×2160, 2560×1440, 1920×1080, 1280×1024,	
Operating System	Embedded LINUX	Resolution	1280×720 VGA: 1920×1080, 1280×1024, 1280×720	
Perimeter Protectio	on		When IP extension mode not enabled: 16CH: 1/4/8/9/16 When IP extension mode enabled: 16CH: 1/4/8/9/16/25	
Perimeter protection	 AI by DVR: Detection alarm for human and vehicle. Filter misinformation such as leaves and light. Function configuration: Set at most 10 rules such as area intrusion and tripwire intrusion. Performance: 2 channels 	Multi-screen Display		
	 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. 	OSD	Camera title, Time, Video loss, Camera lock, Motion detection, Recording	
		Network		
Live View		Interface	1 RJ-45 Port (1000M)	
		Network Function	HTTP, HTTPS, TCP/IP, IPv4/IPv6, UPnP, RTSP, UDP, SMTP, NTP, DHCP, DNS, IP Filter, PPPoE,DDNS, FTP, Alarm Server,P2P, IP Search (Support Dahua IP camera, DVR,	
	 Search conditions: According to channels, time, event types and target types. 		NVS, etc.)	
Playback	2.Functions: Support search of associated event playback or snapshot before and after 10 seconds.	Max. User Access	128 users	
	3. Snapshot capacity: 500,000	Smart Phone	iPhone, iPad, Android	
SMD Plus		Interoperability	ONVIF 16.12, CGI Conformant	
SMD Plus	 AI by DVR: Motion detection alarm for human and vehicle. Filter misinformation such as leaves and light. Performance: 16 channels , AI by DVR 	Video Detection a	Video Detection and Alarm	
Preview	Preview: Configure and inspect detection box	Trigger Events	Recording, PTZ, Tour, Video Push, Email, FTP, Snapshot, Buzzer and Screen Tips	
Playback	 Playback: Search videos through channels, time and target types. Functions: Support search of associated event playback before and after 10 seconds. 	Video Detection	Motion Detection, MD Zones: 396 (22 × 18), Video Loss,Tampering and Diagnosis	
Theyback		Alarm input	16	
Video and Audio		Relay Output	3	
Analog Camera Input 16 Channel, BNC		Playback and Back	Playback and Backup	
HDCVI Camera	4K, 6MP, 4MP, 1080P@25/30fps, 720P@50/60fps, 720P@25/30fps	Playback	16CH: 1/4/9/16	
AHD Camera	5MP, 4MP, 3MP, 1080P@25/30, 720P@25/30fps	Search Mode	Time /Date, Alarm, MD and Exact Search (accurate to second)	
TVI Camera	5MP, 4MP, 3MP, 1080P@25/30, 720P@25/30fps	Disubsels Supetien	Play, Pause, Stop, Rewind, Fast play, Slow Play, Next File, Previous File, Next Camera, Previous Camera, Full Screen, Repeat, Shuffle, Backup Selection, Digital Zoom	
CVBS Camera IP Camera Input	PAL/NTSC 16+16 Channel, each channel up to 8MP	Playback Function		
Audio In/Out	4/1, RCA	Backup Mode	USB Device/Network	
Two-way Talk	Reuse audio in/out, RCA	Storage		
Recording		Internal HDD	2 SATA Ports, up to 10TB capacity for each disk	
Compression	H.265+/H.265/H.264+/H.264	eSATA	N/A	
Resolution	4K, 6MP, 5MP, 4MP, 3MP, 4M-N, 1080P, 720P, 960H, D1, CIF, QCIF		Auxiliary Interface	
Record Rate	Main stream: 4K(1~7fps); 6MP(1~10fps); 5MP(1~12fps); 4MP/3MP(1~15fps); 4M-N/1080P/720P/960H/D1/CIF/QCIF (1~25/30fps) Sub steram:960H(1~15fps); D1/CIF/QCIF(1~25/30fps)	USB	2 USB Ports (1 USB 2.0 , 1 USB 3.0)	
		RS232	N/A	
		RS485	1 Port, for PTZ Control	
Bit Rate	32Kbps ~ 6144Kbps Per Channel	Electrical		
Record Mode	Manual, Schedule (General, Continuous), MD (Video detection: Motion Detection, Video Loss, Tampering), Alarm, Stop	Power Supply	16CH: DC12V/5A	
Record Interval	$1{}^{\sim}60$ min (default: 60 min), Pre-record: $1{}^{\sim}30$ sec, Post-record: $10{}^{\sim}300$ sec	томстэцриу		
Audio Compression	AAC(only for the 1st channel), G.711A, G.711U, PCM	Power Consumption	16CH: <15W (Without HDD)	
Audio Sample Rate	8KHz, 16 bit Per Channel			
Audio Bit Rate	64Kbps Per Channel			

Al Series | DH-XVR7216A-4KL-I

Construction

Dimensions 1U, 375mm×287mm×53mm (14.8" x 11.3" x 2.1") Net Weight 1.8kg (3.70 lb) (without HDD) Gross Weight 3.2kg (7.05lb)						
Gross Weight 3.2kg (7.05lb)						
Installation Desktop installation						
Environmental						
Operating Conditions -10°C ~ +55°C (+14°F ~ +131°F), 0~ 90% RH						
Storage Conditions $-20^{\circ}C \sim +70^{\circ}C (-4^{\circ}F \sim +158^{\circ}F)$, 0^{\sim} 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						

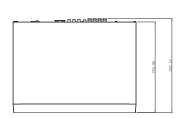
Ordering Information

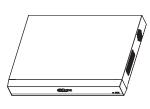
Туре	Part Number	Description
16 Channel XVR		
	DH-XVR7216A-4KL-I	16 Channel Penta-brid 4K 1U Digital Video Recorder

Dimensions (mm)



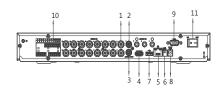






Rear Panel

DH-XVR7216A-4KL-I



1	VIDEO IN	7	USB port
2	AUDIO IN, RCA Connector	8	DC 12V Power Input
3	AUDIO OUT, RCA Connector	9	VGA port
4	HDMI port	10	ALARM IN/OUT
5	Network port	11	Power Switch
6	RS485 port		



Rev 001.001 © 2019 Dahua. All rights reserved. Design and specifications are subject to change without notice.