

XVR702A-16-4KL-I

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



System Overview

ENS 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.

- · H.265+/H.265 dual-stream video compression
- · Supports HDCVI/AHD/TVI/CVBS/IP video inputs
- \cdot Supports 16/32 channels of IPC access, each channel up to 8MP input; Max 64/128Mbps Incoming Bandwidth
- · IoT & POS functionalities
- · Perimeter Protection and SMD Plus



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 funcion 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 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			Resolution	HDMI:3840×2160, 2560×1440, 1920×1080, 1280×1024, 1280×720
Operating System	Embedded LINUX		Resolution	VGA: 1920×1080, 1280×1024, 1280×720
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.		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
	3.Performance: 2 channels 1. Rule box inspection: Configure the rule box and object		OSD	Camera title, Time, Video loss, Camera lock, Motion detection, Recording
	inspection box. 2.Smart panel: Display object classification (human, vehicle),		Network	, u
Live View	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. 1. Search conditions: According to channels, time, event types		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, NVS, etc.)
Playback	and target types. 2. Functions: Support search of associated event playback or		Max. User Access	128 users
	snapshot before and after 10 seconds. 3. Snapshot capacity: 500,000		Smart Phone	iPhone, iPad, Android
SMD Plus			Interoperability	ONVIF 16.12, CGI Conformant
SMD Plus	1. Al by DVR: Motion detection alarm for human and vehicle. Plus Filter misinformation such as leaves and light. 2. Performance: 8/16 channels , Al by DVR		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	1. Playback: Search videos through channels, time and target types.		Video Detection	Motion Detection, MD Zones: 396 (22 × 18), Video Loss, Tampering and Diagnosis
·	2.Functions: Support search of associated event playback before and after 10 seconds.		Alarm input	8/16
Video and Audio			Relay Output	3
Analog Camera Input	8/16 Channel, BNC		Playback and Backup	
HDCVI Camera	4K, 6MP, 4MP, 1080P@25/30fps, 720P@50/60fps, 720P@25/30fps		Playback	8CH: 1/4/9 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 CVBS Camera	5MP, 4MP, 3MP, 1080P@25/30, 720P@25/30fps PAL/NTSC		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
IP Camera Input Audio In/Out	8+8/16+16 Channel, each channel up to 8MP 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	
	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)
Record Rate			RS232	N/A
			RS485	1 Port, for PTZ Control
Bit Rate	32Kbps ~ 6144Kbps Per Channel		Electrical	
Record Mode	Motion Detection, Video Loss, Tampering), Alarm, Stop		Power Supply	8CH: DC12V/4A 16CH: DC12V/5A
Record Interval	$1^{\sim}60$ min (default: 60 min), Pre-record: $1^{\sim}30$ sec, Post-record: $10^{\sim}300\text{sec}$			8CH: <10W (Without HDD)
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			

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)
Installation	Desktop installation

Environmental

Operating Conditions	-10°C ~ +55°C (+14°F ~ +131°F), 0~ 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 Plu Dynacolor, Honeywell, Panasonic, Pelco, Samsung, Sanyo, Sony, Videotec, Vivotek, and more
	sony, videotec, vivotek, and more
	Sorry, videotec, vivotek, and more

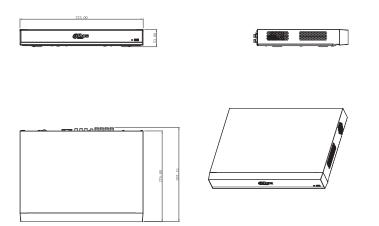
Certifications

	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

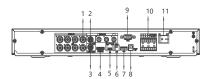
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Туре	Part Number	Description		
8/16 Channel XVR	XVR702A-08-4KL-I	8 Channel Penta-brid 4K 1U Digital Video Recorder		
	XVR702A-16-4KL-I	16 Channel Penta-brid 4K 1U Digital Video Recorder		

Dimensions (mm)

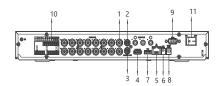


Rear Panel

XVR702A-08-4KL-I



XVR702A-16-4KL-I



- 1 VIDEO IN
- 2 AUDIO IN, RCA Connector
- 3 AUDIO OUT, RCA Connector
- 4 HDMI port
- 5 Network port
- 6 RS485 port

- 7 USB port
- 8 DC 12V Power Input
- 9 VGA port
- 10 ALARM IN/OUT
- 11 Power Switch