

16-channel Penta-brid HDCVI DVR

Penta-brid 1080p 1.5U HDCVI Digital Video Recorder

- Smart H.264+ Video Compression
 Auto-detect and auto-configuration of HDCVI, AHD, CVBS, TVI, and IP Cameras
 - Maximum 16+8 Camera Channels, up to 5 MP per IP Channel
 - Maximum 96 Mbps Incoming Bandwidth

Embedded Processor
 Dual-stream Recording

• Smart Search and Intelligent Video System



System Overview

Dahua, a global leader in security systems, introduces XVR technology - the perfect affordable solution to upgrade existing video surveillance systems while leveraging existing networks, cabling, and cameras. XVR technology utilizes Penta-brid access technology to seamlessly record video from HDCVI, AHD, TVI, CVBS, and IP sources simultaneously.

The XVR offers advanced options such as built-in motion detection algorithms, and customized recording modes. XVR technology is the ideal solution for actively monitoring and recording video feeds in wide range of applications including public venues, retail stores, transportation hubs and access ways, personal property and homes, and educational institutions.

Camera Connections

Record and monitor video from compatible camera inputs simultaneously. The X24A3L series supports 24 camera inputs, 16 of which can be HDCVI, AHD, TVI, or CVBS cameras and the remainder IP cameras. In addition, the XVR supports a maximum of 16 local live-view channels and 16 playback channels.

Flexible Recording

The XVR offers a variety of configurable recording options and schedule that saves HDD space and active monitoring time. The XVR monitors incoming video and can be programmed to record if motion is detected or if an alarm is triggered. The XVR can also be programmed to record on a schedule or at different intervals. The recording options and schedules can be set for each individual camera or copied to all cameras.

Functions

Spot Output

The XVR provides a spot output channel for a secondary monitor. This monitor allows the operator to view one monitor that is assigned to selected cameras or video inputs from high-security areas.

Smart H.264+

The Smart H.264+ video compression standard can reduce bit rate and storage requirements by up to 70% without having to invest in new cameras.

HDCVI/AHD/TVI/CVBS Auto-detect

The XVR automatically recognizes the incoming signals of each attached camera without any setup, making installation easy and operation convenient.

5 MP Resolution

The XVR supports 5 MP resolution (2560 x 1920) on IP camera inputs for recording and live viewing.

Intelligent Video System (IVS)

With built-in intelligent video analytics on one (1) analog channel, the XVR has the ability to detect and analyze moving objects for improved video surveillance and perform actionable detection of edge camera tampering or malfunction. IVS also supports Tripwire analytics, allowing the XVR to detect when a pre-determined line has been crossed. IVS also offers facial detection, on the first analog channel, to detect and capture a snapshot of human face in a defined area within a scene.

Smart Search

Smart Search allows an operator to specify a region in the playback video to search for a motion detection event, saving time and manpower.



Pro Series | X24A5L

Technical Specification

System	
Main Processor	Embedded Processor
Operating System	Embedded Linux
Display	
Interface	Two (2) HDMI ports One (1) VGA port One (1) 1 TV port
Spot Output (Video Matrix)	HDMI-2 Interface
Resolution	1920 x 1080, 1280 x 1024, 1280 x 720, 1024 x 768
Multi-screen Display	1/4/8/9/16/25 1/4/8/9/16/25/36
On-screen Display	Camera Title, Time, Video Loss, Camera Lock, Motion Detection, Recording

Video Detection and Alarm

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Trigger Events	Recording, PTZ, Tour, Alarm Out, Video Push, Email, FTP, Snapshot, Buzzer and Screen Tips			
Video Detection	Motion Detection, MD Zones: 396 (22 × 18), Video Loss, Tampering and Diagnosis			
Alarm Input	16 Channels			
Relay Output	Six (6) Channels			
Playback and Backup				
Playback	1/4/9/16			
Search Mode	Time/Date, Alarm, MD and Exact Search (accurate to one second), Smart Search			
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			
Backup Mode	USB Device and Network			
Storage				
Internal HDD	4 SATA Ports, up to 8 TB capacity for each disk			
HDD Mode	Single			
eSATA	One (1) Port			
Auxiliary Interface				
USB	One (1) USB 2.0 Port Two (2) USB 3.0 Ports			
Sorial/BS222	RS232: PC Communication/Keyboard Control			
Serial/RS232	RS485: PTZ Control			
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			

Audio and Video Analog Camera Input 16 Channels IP Camera Input 16+8 Channels, each Channel up to 5 MP Inputs: Four (4) Channels Audio Output: One (1) Channel Input: One (1) BNC Microphone Connector Two-way Talk Output: One (1) BNC Microphone Connector Recording Compression Smart H.264+, H.264, MJPEG 1080p, 720p, 960H, D1, HD1, BCIF, CIF, QCIF Resolution **Record Rate** 1080p at 15 fps Main Stream 1080N, 720p, 960H, D1, HD1, BCIF, CIF, QCIF at 30 fps Sub Stream D1, CIF, QCIF at 15 fps Bit Rate 1 Kbps to 6144 Kbps per Channel Manual, Schedule (Regular, Continuous), Record Mode MD (Video Detection: Motion Detection, Video Loss, Tampering), Alarm, Stop 1 to 60 minutes (default: 60 minutes) Record Interval Pre-record: 1 to 30 s Post-record: 10 to 300 s Network One (1) RJ-45 Port (1000 Mbps) Interface HTTP, TCP/IP, IPv4/IPv6, UPnP, RTSP, UDP, SMTP, NTP, DHCP, DNS, IP Filter, PPPoE, DDNS, FTP, Alarm Server, **Network Function** P2P, IP Search (Support for Dahua IP Cameras, DVRs, NVS) 128 Users Maximum User Access IOS and Android Mobile Operating System Interoperability ONVIF 2.4.1, CGI Conformant Electrical 100 to 240 VAC, 50/60 Hz Power Supply **Power Consumption** < 30 W, without HDD Environmental **Operating Conditions** -10° C to +55° C (+14° F to +131° F) -20° C to +70° C (-4° F to +158° F), 0 to 90% RH Storage Conditions Construction 1.5U, 440.0 mm x 416.70 mm x 76.0 mm Dimensions (17.30 in. x 16.40 in. x 3.0 in.) Net Weight 6.0 kg (13.32 lb), without HDD Gross Weight 7.0 kg (15.43 lb) Installation Desktop or Rack-mount Installation Certifications

Complies with UL Standard

FCC: VFHKEM1612001682IT

CE: SHES161101000501

Safety

Electromagnetic

Compatibility (EMC)

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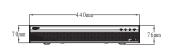
Intelligence¹

IVS triggers an alarm and takes a defined action for the following events:

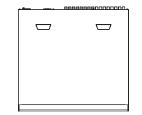
	Standard Features	 Tampering with the camera. Error writing to an onboard Micro SD card. Error sending or receiving data over the network. Unauthorized access to the camera. 	
	Premium Features (available o	n 1 analog channel)	
	Motion	An object moves through any part of the scene.	
	Tripwire	A target crosses a user-defined line.	
	Intrusion	A target enters or exits a defined perimeter.	
	Scene Change	A person or object moves the camera to change the scene or covers the camera to obscure the scene.	
	Abandoned/Missing Object	A target leaves an object in designated area, or a target removes an object from the same designated area.	
	Advanced Features (available of	vanced Features (available on the first analog channel)	
	Facial Detection	Detects and captures a snapshot of human face in a defined area within a scene.	

Ordering Information				
Туре	Part Number	Description		
16-channel XVR	X24A3L	16-channel Penta-brid 1080p, 1.5U, HDCVI Digital Video Recorder		

Dimensions









1. The IVS features are operational only when the additional IP channel feature is not active. The XVR supports only IVS or the additional IP channel inputs, both features cannot be in use simultaneously.

