

# 32-channel Penta-brid HDCVI DVR

Penta-brid 1080p 1.5U HDCVI Digital Video Recorder



- · Embedded Processor
- Dual-stream Recording
- Smart H.264+ Video Compression
- Auto-detect and auto-configuration of HDCVI, AHD, CVBS, TVI, and IP Cameras
- Maximum 32 Camera Channels, HDCVI, AHD, CVBS, TVI, or IP Sources
- Maximum 128 Mbps Incoming Bandwidth
- 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 X24A5L series supports 32 camera inputs from any combination of HDCVI, AHD, TVI, CVBS, or 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.



Technical Specification		Audio	and Video	
System		Camera	Input	32 Channels Total, any combination of HDCVI, AHD,
Main Processor	Embedded Processor	IP Came	ra Innut	TVI, CVBS, or IP sources
Operating System	Embedded Linux	Audio	ιαπραί	Each Channel up to 5 MP Inputs: Four (4) Channels
Display		Audio		Output: One (1) Channel
Two (2) HDMI ports		Two-wa	y Talk	Input: One (1) BNC Microphone Connector Output: One (1) BNC Microphone Connector
Interface	One (1) VGA port One (1) 1 TV port	Record	Recording	
Spot Output (Video Matrix)	HDMI-2 Interface	Compre		Smart H.264+, H.264, MJPEG
Resolution	1920 x 1080, 1280 x 1024, 1280 x 720, 1024 x 768	Resoluti Record		1080p, 720p, 960H, D1, HD1, BCIF, CIF, QCIF
Multi-screen Display	1/4/8/9/16/25/36	Record		1080p at 15 fps
On-screen Display	Camera Title, Time, Video Loss, Camera Lock,		Main Stream	1080N, 720p, 960H, D1, HD1, BCIF, CIF, QCIF at 30 fps
Video Detection and Ala	Motion Detection, Recording	Bit Rate	Sub Stream	D1, CIF, QCIF at 15 fps  1 Kbps to 6144 Kbps per Channel
video Detection and Ala		bit Nate		
Trigger Events	Recording, PTZ, Tour, Alarm Out, Video Push, Email, FTP, Snapshot, Buzzer and Screen Tips	Record	Mode	Manual, Schedule (Regular, Continuous), MD (Video Detection: Motion Detection, Video Loss, Tampering), Alarm, Stop
Video Detection	Motion Detection, MD Zones: 396 (22 × 18), Video Loss, Tampering and Diagnosis	Record	nterval	1 to 60 minutes (default: 60 minutes) Pre-record: 1 to 30 s Post-record: 10 to 300 s
Alarm Input	16 Channels	Netwo	Network	
Relay Output	Six (6) Channels	Interfac	e	One (1) RJ-45 Port (1000 Mbps)
Playback and Backup				HTTP, TCP/IP, IPv4/IPv6, UPnP, RTSP, UDP, SMTP, NTP,
Playback	1/4/9/16	Network	<ul><li>Function</li></ul>	DHCP, DNS, IP Filter, PPPoE,DDNS, FTP, Alarm Server, P2P, IP Search (Support for Dahua IP Cameras, DVRs, NVS)
Search Mode	Time/Date, Alarm, MD and Exact Search (accurate	Maximu	m User Access	128 Users
	to one second), Smart Search  Play, Pause, Stop, Rewind, Fast Play, Slow Play, Next File, Previous File, Next Camera, Previous Camera, Full Screen, Repeat, Shuffle, Backup Selection, Digital Zoom	Mobile	Operating System	IOS and Android
Playback Function		Interope	·	ONVIF 2.4.1, CGI Conformant
			Electrical	
Backup Mode	USB Device and Network	Power S		100 to 240 VAC, 50/60 Hz
Storage			Power Consumption < 30 W, without HDD  Environmental	
Internal HDD	4 SATA Ports, up to 8 TB capacity for each disk			10° C to 155° C (114° E to 1121° E)
HDD Mode	Single		ng Conditions  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
eSATA	One (1) Port	J	ruction	-20 € 10 +70 € (-4 1 10 +138 1), 0 10 30% (11
Auxiliary Interface		Dimensi		1.5U, 440.0 mm x 416.70 mm x 76.0 mm
USB	One (1) USB 2.0 Port Two (2) USB 3.0 Ports	Net Wei	ght	(17.30 in. x 16.40 in. x 3.0 in.) 6.50 kg (14.32 lb), without HDD
	RS232: PC Communication/Keyboard Control	Gross W	eight eight	9.80 kg (21.60 lb)
Serial/RS232	RS422/485: PTZ Control	Installat	ion	Desktop or Rack-mount Installation
Third-party Support		Certifi	Certifications	
Third-party Support	Dahua, Arecont Vision, AXIS, Bosch, Brickcom, Canon, CP Plus, Dynacolor, Honeywell, Panasonic,	Safety		EN 60950-1:2006+A1:2010+A11:2009+A12:2011 +A2:2013
, , , , , ,	Pelco, Samsung, Sanyo, Sony, Videotec, Vivotek, and more		nagnetic ibility (EMC)	FCC Part 15, Subpart B: 2015 EN 55032:2015 (Class B) EN 50130-4:2011+A1:2014 EN 61000-3-2:2014 EN 61000-3-3:2013

Immunity

EN 55024:2010+A1:2015

# Pro Series | X24A5L

# Intelligence<sup>1</sup>

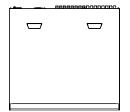
	_				
	IVS triggers an alarm and takes a defined action for the following events:				
	Standard Features	<ul> <li>Tampering with the camera.</li> <li>Error writing to an onboard Micro SD card.</li> <li>Error sending or receiving data over the network.</li> <li>Unauthorized access to the camera.</li> </ul>			
	Premium Features (available on 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	dvanced 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				
	X24A5L2	32-channel Penta-brid 1080p, 1.5U, 2 TB HDCVI Digital Video Recorder				
	X24A5L4	32-channel Penta-brid 1080p, 1.5U, 4 TB HDCVI Digital Video Recorder				
32-channel XVR	X24A5L6	32-channel Penta-brid 1080p, 1.5U, 6 TB HDCVI Digital Video Recorder				
	X24A5L12	32-channel Penta-brid 1080p, 1.5U, 12 TB HDCVI Digital Video Recorder				
	X24A5L24	32-channel Penta-brid 1080p, 1.5U, 24 TB HDCVI Digital Video Recorder				

## **Dimensions**











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.