

Penta-brid 1080p DVR

4/8/16-Channel Penta-brid 1080p 1U Digital Video Recorder



- Embedded Processor
- Smart H.264+ and H.264 Video Compression
- Offers Real-time 1080p Recording Resolution
- 4, 8, or 16 HDCVI/AHD/TVI/CVBS Channels
- 4 + 2, 8 + 4, or 16 + 8 IP Channels, up to 5 MP per Channel
- Max. 24/48/96 Mbps Incoming Bandwidth
- Built-in Smart Search
- Intelligent Video System (one IP channel)
- Two (2) SATA HDD Ports











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, alarm triggers, 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 analog/CVI camera inputs and IP camera inputs simultaneously. The X32A series supports a maximum of 24 channels, with up to 16 channels of HDCVI/AHD/TVI/CVBS inputs and up to an additional 8 channels of IP inputs. The flexibility of the XVR allows all 24 channels to record input from IP cameras, or from a combination of input from analog and IP sources (not to exceed the maximum number of analog cameras allowed per XVR). 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 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 features Spot Output, allowing an operator to view a secondary monitor assigned to select cameras or video inputs in a high-security area.

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)

IVS is a built-in video analytic algorithm that delivers intelligent functions to monitor a scene for Tripwire violations, intrusion detection, and abandoned or missing objects. A device with IVS quickly and accurately responds to monitoring events in a specific area. The camera also offers tamper detection by recognizing a dramatic scene change and generating a warning message to inspect the camera.

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						Model	Analog Inputs	IP Inputs
				Camera Inputs	X32A1A	4	4 + 2	
Main Processor					X32A2A	8	8 + 4	
Operating System	Embedded LINUX					X32A3A	16 1080p at 30 fps	16 + 8 Up to 5 MP
Display					Resolution		per channel	per channel
Interface	One (1) HDMI, One (1) VGA				Audio	Input: Four (4) Channels Output One (1) Channel		
Spot Output (Video Matrix)	HDMI or VGA Interface, configurable				Two-way Talk	Reuse Audio In (Channel 1) / Out, RCA		
Resolution	1920 × 1080, 1280 × 1024, 1280 × 720, 1024 × 768				Recording	C		
Multi-screen Display	X32A1A	X32A2A	X32A3A		Compression	Smart H.264+ / H.264		
	1/4/6	1/4/8/9/16	1/4/8/9/16/25		Resolution	1080p, 720p, 960H, D1, HD1, BCIF, CIF, QCIF		
On screen Display Ontions	Camera Title, Time,	Video Loss, Cam	era lock, Motion		Record Rate	1080p at 30 fps of	or.	
On-screen Display Options Detection, and Recording				Main Stream	1080N, 720p, 960H, D1, HD1, BCIF, CIF, QCIF at 30 fps			
Video Detection and Alarm				Sub Stream	D1, CIF, QCIF at 30 fps			
Trigger Events	Recording, PTZ, Tour, Alarm Out, Video Push, Email, FTP, Snapshot, Buzzer, and Screen Tips				Bit Rate	1 Kbps to 6144 Kbps per Channel		
Video Detection	Motion Detection, N Video Loss, Tamperi				Record Mode	Manual, Schedule (Regular, Continuous), Motion Detection (Video detection: Motion Detection, Video Loss, Tampering), Alarm, and Stop		
Alarm input	X32A1A 4	X32A2A 8	X32A3A 16		Record Interval	1 to 60 minutes (default: 60 minutes) Pre-record: 1 s to 30 s		
Relay Output		Three (3)				Post-record: 10 s	to 300 s	
			Network					
Playback and Backup						X32A1A	X32A2A	X32A3A
Playback	X32A1A 1/4	X32A2A 1/4/9	X32A3A 1/4/9/16			One (1) RJ-45 Port (100 MB)	One (1) RJ-4	45 Port (1000 MB)
Search Mode	Time / Date, Alaı Search	rm, Motion Dete (accurate to 1 se			Network Function	HTTP, TCP/IP, IPv4/IPv6, UPnP, RTSP, UDP, SMTP, NTP, DHCP, DNS, IP Filter, PPPoE,DDNS, FTP, Alarm Server, P2P,IP Search (Support Dahua IP cameras, DVRs, NVS)		
Playback Function	Play, Pause, Stop, Rewind, Fast Play, Slow Play, Next File, Previous File, Next Camera, Previous Camera, Full Screen, Repeat, Shuffle, Backup Selection, and Digital Zoom				Max. User Access	128 users		
					Mobile Operating System	IOS and Android		
Backup Mode	USB Device Network				Interoperability	ONVIF 2.4.1, CGI Conformant		
Storage	Storage				Electrical			
Internal HDD	2 SATA Ports, up to	8 TB capacity for	each disk			X32A1A	X32A2A	X32A3A
HDD Mode	Single						DC, 4 A	12 VDC, 5 A
Auxiliary Interface					Power Consumption		< 15 W, without	HDD
USB	X32A1A	X32A2A	X32A3A		Environmental			
	Two (2) USB	Two (2) USB One (1)	JSB 2.0 Port		Operating Conditions	-10°C to +55°C (+	-14°F to +131°F), 8	6 to 106 kpa
			JSB 3.0 Port		Storage Conditions	0°C to +50°C (+3	2°F to +122°F), 0 to	90% RH
RS485	RS485 One (1) Port, for PTZ Control				Construction			
Third-party Support					Dimensions			
Third-party Support	Dahua, Arecont Vision, AXIS, Bosch, Brickcom, Canon, CP Plus, Dynacolor, Honeywell, Panasonic, Pelco, Samsung, Sanyo, Sony, Videotec, Vivotek, and others				NVR	1U, 375.0 mm × 287.0 mm × 55.0 mm (14.70 in. x 11.20 in. x 2.20 in.)		
					NVR with PFH101 Rack Mount Tray	482.60 mm x 287.0 mm x 55.0 mm (19.0 in. x 11.20 in. x 2.20 in.)		
				Net Weight	2.35 kg (5.20 lbs), without HDD			
					Gross Weight	3.20 kg (7.05 lbs)		
					Installation	Desktop installat	ion	

Pro Series | X32A1A/X32A2A/X32A3A

Certifications					
Safety	UL 60950-1 CAN/CSA C22.2 No. 60950-1-07				
Electromagnetic Compatibility (EMC)	FCC Part 15 Subpart B ICES 003 Issue 6 EN 55032: 2012+AC:2013 (Class B) EN 50130-4: 2011 EN 61000-3-2: 2014 EN 61000-3-3: 2013				
Immunity	EN 55024 : 2010				
Intelligence					
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					
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 scen 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.				

Ordering Information					
Туре	Part Number	Description			
	X32A1A	4 Analog/CVI Inputs, 4 + 2 IP Inputs, 0 TB 4 Alarm Inputs, 3 Alarm Outputs			
	X32A1A1	4 Analog/CVI Inputs, 4 + 2 IP Inputs, 1 TB 4 Alarm Inputs, 3 Alarm Outputs			
4-channel HDCVI DVR	X32A1A2	4 Analog/CVI Inputs, 4 + 2 IP Inputs, 2 TB 4 Alarm Inputs, 3 Alarm Outputs			
	X32A1A3	4 Analog/CVI Inputs, 4 + 2 IP Inputs, 3 TB 4 Alarm Inputs, 3 Alarm Outputs			
	X32A1A4	4 Analog/CVI Inputs, 4 + 2 IP Inputs, 4 TB 4 Alarm Inputs, 3 Alarm Outputs			
	X32A1A6	4 Analog/CVI Inputs, 4 + 2 IP Inputs, 6 TB 4 Alarm Inputs, 3 Alarm Outputs			
	X32A2A	8 Analog/CVI Inputs, 8 + 4 IP Inputs, 0 TB 8 Alarm Inputs, 3 Alarm Outputs			
	X32A2A1	8 Analog/CVI Inputs, 8 + 4 IP Inputs, 1 TB 8 Alarm Inputs, 3 Alarm Outputs			
8-channel HDCVI	X32A2A2	8 Analog/CVI Inputs, 8 + 4 IP Inputs, 2 TB 8 Alarm Inputs, 3 Alarm Outputs			
DVR	X32A2A3	8 Analog/CVI Inputs, 8 + 4 IP Inputs, 3 TB 8 Alarm Inputs, 3 Alarm Outputs			
	X32A2A4	8 Analog/CVI Inputs, 8 + 4 IP Inputs, 4 TB 8 Alarm Inputs, 3 Alarm Outputs			
	X32A2A6	8 Analog/CVI Inputs, 8 + 4 IP Inputs, 6 TB 8 Alarm Inputs, 3 Alarm Outputs			
	X32A3A	16 Analog/CVI Inputs, 16 + 8 IP Inputs, 0 TB 16 Alarm Inputs, 3 Alarm Outputs			
	X32A3A1	16 Analog/CVI Inputs, 16 + 8 IP Inputs, 1 TB 16 Alarm Inputs, 3 Alarm Outputs			
16-channel	X32A3A2	16 Analog/CVI Inputs, 16 + 8 IP Inputs, 2 TB 16 Alarm Inputs, 3 Alarm Outputs			
HDCVI DVR	X32A3A3	16 Analog/CVI Inputs, 16 + 8 IP Inputs, 3 TB 16 Alarm Inputs, 3 Alarm Outputs			
	X32A3A4	16 Analog/CVI Inputs, 16 + 8 IP Inputs, 4 TB 16 Alarm Inputs, 3 Alarm Outputs			
	X32A3A6	16 Analog/CVI Inputs, 16 + 8 IP Inputs, 6 TB 16 Alarm Inputs, 3 Alarm Outputs			
Accessory, optional	PFH101	Rack Mount Tray 482.60 mm x 281.20 mm x 43.70 mm (19.0 in. x 11.07 in. x 1.72 in.)			

Dimensions (mm)





