

Penta-brid 1080p DVR

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
- 16 HDCVI/AHD/TVI/CVBS Channels
- 16 + 8 IP Channels, up to 5 MP per Channel
- Maximum 96 Mbps Incoming Bandwidth
- Built-in Smart Search
- Intelligent Video System (one analog 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	1	Audio and Video					
System		Camera Inputs	Model	Analog Inputs	IP Inputs		
Main Processor	Embedded Processor		X32A3A	16 1080p at 30 fps	16 + 8 Up to 5 MP		
Operating System	Embedded LINUX	Resolution		per channel	per channel		
		Audio	Input: Four (4) Channels Output One (1) Channel				
Display		Two-way Talk	Reuse Audio In (Channel 1) / Out, RCA				
Interface	One (1) HDMI, One (1) VGA	Recording					
Spot Output (Video Matrix)	HDMI or VGA Interface, configurable	Compression	Smart H.264+ / H.264				
Resolution	1920 × 1080, 1280 × 1024, 1280 × 720, 1024 × 768	Resolution	1080p, 720p, 960H, D1, HD1, BCIF, CIF, QCIF				
Multi-screen Display	1/4/8/9/16/25	Record Rate					
On-screen Display Options	Camera Title, Time, Video Loss, Camera lock, Motion Detection, and Recording	Main Stream	1080p at 30 fps or 1080N, 720p, 960H, D1, HD1, BCIF, CIF, QCIF at 30 fps				
Video Detection and Alarm		Sub Stream	D1, CIF, QCIF at 30 fps				
Trianau Franta	Recording, PTZ, Tour, Alarm Out, Video Push, Email,	Bit Rate	1 Kbps to 6144 Kbps per Channel				
Trigger Events Video Detection	FTP, Snapshot, Buzzer, and Screen Tips Motion Detection, MD Zones: 396 (22 × 18), Video Loss, Tampering, and Diagnosis	Record Mode	Manual, Schedule (Regular, Continuous), Motion Detection (Video detection: Motion Detection, Video Loss, Tampering), Alarm, and Stop				
Alarm input	16		1 to 60 minutes (default: 60 minutes)				
Relay Output	Three (3)	Record Interval	Pre-record: 1 s to 30 s Post-record: 10 s to 300 s				
Playback and Backup		Network	Network				
Playback	1/4/9/16	Ethernet	One (1) RJ-45 Port (1000 MB)				
Search Mode	Time / Date, Alarm, Motion Detection, and Exact Search (accurate to 1 second)	Network Function	HTTP, TCP/IP, IPv4/IPv6, UPnP, RTSP, UDP, SMTP, NTP, DHCP, DNS, IP Filter, PPP0E,DDNS, FTP, Alarm Server,				
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	P2P,IP Search (Support Dahua IP cameras, DVRs, NVS) 128 users				
	USB Device	Mobile Operating System	IOS and Android				
Backup Mode	Network	Interoperability	ONVIF 2.4.1, CGI Conformant				
Storage		Electrical	Electrical				
Internal HDD	2 SATA Ports, up to 8 TB capacity for each disk	Power Input	12 VDC, 5 A				
HDD Mode	Single	Power Consumption	< 15 W, without HDD				
Auxiliary Interface		Environmental					
USB	One (1) USB 2.0 Port	Operating Conditions	-10°C to +55°C (+14°F to +131°F), 86	to 106 kpa		
RS485	One (1) USB 3.0 Port One (1) Port, for PTZ Control	Storage Conditions	0°C to +50°C (+3	32°F to +122°F), 0 to 9	90% RH		
	One (1) Fort, for F12 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	s), without HDD			
		Gross Weight	3.20 kg (7.05 lbs				
		Installation	Desktop installa	tion			

Pro Series | X32A3A

Certifications				
Safety	JL 60950-1 CAN/CSA C22.2 No. 60950-1-07			
Electromagnetic Compatibility (EMC)	-CC 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 on one analog channel :				
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				
Tripwire	A target crosses a user-defined line.			
Intrusion	A target enters or exits a defined perimeter.			
Abandoned/Missing Object	A target leaves an object in designated area, or a target removes an object from the same designated area.			
Face Detection	Detects and captures a snapshot of human face in a defined area within a scene.			

Ordering Information				
Туре	Part Number	Description		
	X32A3A1	16 Analog/CVI Inputs, 16 + 8 IP Inputs, 1 TB 16 Alarm Inputs, 3 Alarm Outputs		
	X32A3A2	16 Analog/CVI Inputs, 16 + 8 IP Inputs, 2 TB 16 Alarm Inputs, 3 Alarm Outputs		
16-channel 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.)		



