

Penta-brid 1080p DVR

4/8/16-Channel 12 TB Penta-brid 1080p 1U Digital Video Recorder



- Embedded Processor
- Smart H.264+ / H.264 Dual-stream 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, up to 12 TB of Storage



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

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.



Pro Series | X32A1A/X32A2A/X32A3A

Technical Specification

icennear opeennearion			
System			
Main Processor	Embedded Processor		
Operating System	Embedded LINUX		
Display			
Interface	One (1) HDMI One (1) VGA		
Resolution	1920 × 1080, 1280 × 1024, 1280 × 720, 1024 × 768		
Multi coroon Dimbro	X32A1E	X32A2E	X32A3E
Multi-screen Display	1/4/6	1/4/8/9/16	1/4/8/9/16/25
On-screen Display Options	Camera Title, Time, Video Loss, Camera lock, Motion Detection, and Recording		
Video Detection and Alarm			
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	X32A1E	X32A2E	X32A3E
	4	8	16
Relay Output		Three (3)	
Playback and Backup			
Playback	X32A1E	X32A2E	X32A3E
	1/4	1/4/9	1/4/9/16
Search Mode		rm, Motion Deteo (accurate to 1 se	
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		
Backup Mode		USB Device Network	
Storage			
Internal HDD	2 SATA Ports, up to 6 TB capacity for each disk		
HDD Mode	Single		
Auxiliary Interface			
	X32A1E	X32A2E	X32A3E
USB	Two (2) USB 2.0 Ports)		JSB 2.0 Port JSB 3.0 Port
RS485	One (1	L) Port, for PTZ Co	ontrol
Third-party Support			
Third-party Support	Dahua, Arecont Visi CP Plus, Dynacolor, Samsung, Sanyo, Sc	Honeywell, Pana	sonic, Pelco,

Audio and Video

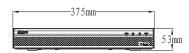
Audio and Video				
	Model	Analog Inputs	IP Inputs	
Camera Inputs	X32A1E	4	4 + 2	
camera inputs	X32A2E	8	8 + 4	
	X32A3E	16	16 + 8	
Resolution		1080p at 30 fps per channel	Up to 5 MP per channel	
Audio	Input: Four (4) Channels Output One (1) Channel			
Two-way Talk	Reuse Audio In (Channel 1) / Out, RCA			
Recording				
Compression	Smart H.264+ / H.264			
Resolution	1080p, 720p, 960H, D1, HD1, BCIF, CIF, QCIF			
Record Rate				
Main Stream	1080p at 30 fps or 1080N, 720p, 960H, D1, HD1, BCIF, CIF, QCIF at 30 fps			
Sub Stream	D1, CIF, QCIF at 30 fps			
Bit Rate	1 Kbps to 6144 Kbps per Channel			
Record Mode	Manual, Schedule (Regular, Continuous), Motion Detection (Video detection: Motion Detection, Video Loss, Tampering), Alarm, and Stop			
Record Interval	1 to 60 minutes (default: 60 minutes) Pre-record: 1 s to 30 s Post-record: 10 s to 300 s			
Network				
	X32A1E	X32A2E	X32A3E	
	One (1) RJ-45 Port (100 MB)	One (1) RJ-4	45 Port (1000 MB)	
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)			
Max. User Access	128 users			
Mobile Operating System	IOS and Android			
Interoperability	ONVIF 2.4.1, CGI Conformant			
Electrical				
	X32A1E	X32A2E	X32A3E	
	12 VE	DC, 4 A	12 VDC, 5 A	
Power Consumption		< 15 W, without	HDD	
Environmental				
Operating Conditions	-10°C to +55°C (+	14°F to +131°F), 80	6 to 106 kpa	
Storage Conditions	0°C to +50°C (+32	2°F to +122°F), 0 to	90% RH	
Construction				
Dimensions	1U, 375.0 mm × 285.0 mm × 55.0 mm (14.70 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 installation			
Certifications				
Safety	Conforms to UL Standard			
Electromagnetic Compatibility (EMC)	FCC Part 15 Subp ANSI C63.4 – 201 ICES 003			

Pro Series | X32A1A/X32A2A/X32A3A

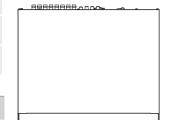
Intelligence

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 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.		

Dimensions (mm)









nua

TECHNOLOGY

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
	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
	X32A2A2	8 Analog/CVI Inputs, 8 + 4 IP Inputs, 2 TB 8 Alarm Inputs, 3 Alarm Outputs
	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
	X32A3A2	16 Analog/CVI Inputs, 16 + 8 IP Inputs, 2 TB 16 Alarm Inputs, 3 Alarm Outputs
	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

Rev: 001.007 2017 Dahua All rights reserved. Design and specifications are subject to change without notice.