

Penta-brid 1080p DVR

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



- Embedded Processor
- Smart H.264+ / H.264 Dual-stream Video Compression
- Offers 720p (real-time) and 1080p (15 fps) Resolutions
- 16 HDCVI/AHD/TVI/CVBS Channels
- 16 + 8 IP Channels, up to 5 MP per Channel
- Max. 96 Mbps Incoming Bandwidth
- Built-in Smart Search
- Intelligent Video System (one IP channel)
- Two (2) SATA HDD Ports, up to 8 TB per Hard Disk Drive













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 analog/CVI camera inputs and IP camera inputs simultaneously. The X22A 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 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 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 (2560×1920) 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		Camera Inputs	Model	Analog Inputs	IP Inputs
Main Processor	Embedded Processor		X22A3AN	16 1080p at 15 fps	16+8 Up to 5 MP per
Operating System	Embedded LINUX	Resolution		per channel	channel
Display		Audio Connections	Model	Audio IN	Audio OUT
Interface	One (1) UDMI One (1) VCA	Tors over Talls	X22A3AN	1	1
	One (1) HDMI, One (1) VGA	Two-way Talk	Reuse Audi	o In (Channel 1) / Out,	RCA
Spot Output (Video Matrix)	HDMI or VGA Interface, configurable	Recording			
Resolution	1920 × 1080, 1280 × 1024, 1280 × 720, 1024 × 768	Compression	Smart H.264+ / H.264		
Multi-screen Display	1/4/8/9/16/25	Resolution	1080p, 720p, 960H, D1, HD1, BCIF, CIF, QCIF		
On-screen Display Options	Camera Title, Time, Video Loss, Camera lock, Motion Detection, and Recording	Record Rate	1090p at 1	to 15 fps or	
Video Detection		Main Stream			, CIF, QCIF at 1 to 30 fps
Trigger Events	Recording, PTZ, Tour, Alarm Out, Video Push, Email,	Sub Stream	D1, CIF, QC	IF at 1 to 30 fps	
	FTP, Snapshot, Buzzer, and Screen Tips Motion Detection, MD Zones: 396 (22 × 18),	Bit Rate	1 Kbps to 6144 Kbps per Channel		
Video Detection Playback and Backup	Video Loss,Tampering, and Diagnosis	Record Mode	Manual, Schedule (Regular, Continuous), Motion Detection (Video detection: Motion Detection, Video Loss, Tampering), Alarm, and Stop		
Playback	1/4/9/16	Record Interval	1 to 60 minutes (default: 60 minutes) Pre-record: 1 s to 30 s Post-record: 10 s to 300 s		
Search Mode	Time / Date, Alarm, Motion Detection, and Exact Search (accurate to 1 second)	Network	POSI-TECOTO	1. 10 \$ 10 300 \$	
Playback Function	Play, Pause, Stop, Rewind, Fast Play, Slow Play, Next File, Previous File, Next Camera,	Interface	One (1) RJ-45 Port (1000 M)		
·	Previous Camera, Full Screen, Repeat, Shuffle, Backup Selection, and Digital Zoom USB Device	Network Function	HTTP, TCP/IP, IPv4/IPv6, UPnP, RTSP, UDP, SMTP, NTP, DHCP, DNS, IP Filter, PPP0E,DDNS, FTP, Alarm Server,P2P, IP Search (Supports Dahua IP cameras, DVRs, NVS)		
Backup Mode	Network	Max. User Access	128 users		
Storage		Mobile Operating System	IOS and An	droid	
Internal HDD	Two (2) SATA Ports, up to 8 TB capacity for each disk	Interoperability	ONVIF 2.4.2	1, CGI Conformant	
HDD Mode	Single	Electrical			
Auxiliary Interface		Power Supply	12 VDC, 5 A	1	
USB	One (1) USB 2.0 Port One (1) USB 3.0 Port		< 15 W, wit		
RS485	One (1) Port, for PTZ Control	Power Consumption	< 15 W, WIL	nout HDD	
Third-party Support	one (1) for the control	Environmental			
Tillu-party Support	Dahua, Arecont Vision, AXIS, Bosch, Brickcom,	Operating Conditions		5°C (+14°F to +131°F), 8	
Third-party Support	Canon, CP Plus, Dynacolor, Honeywell, Panasonic, Pelco, Samsung, Sanyo, Sony, Videotec, Vivotek,	Storage Conditions Construction	0°C to +50°C (+32°F to +122°F), 0 to 90% RH		
	and others	Construction			
		Dimensions			
		NVR		nm × 285.0 mm × 55.0 in. x 11.20 in. x 2.20 in.	
		NVR with PFH101 Rack Mount Tray		x 285.0 mm x 55.0 mn 11.20 in. x 2.20 in.)	n
		Net Weight	2.35 kg (5.2	20 lbs), without HDD	

Gross Weight

Installation

3.20 kg (7.05 lbs)

Desktop installation

Pro Series | X22A3N

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 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 scene or covers the camera to obscure the scene.				

Ordering Information				
Туре	Part Number	Description		
Penta-brid HDCVI DVR	X22A3N	16 Analog/CVI Inputs, 16 + 8 IP Inputs, 0 TB		
	X22A3N1	16 Analog/CVI Inputs, 16 + 8 IP Inputs, 1 TB		
	X22A3N2	16 Analog/CVI Inputs, 16 + 8 IP Inputs, 2 TB		
	X22A3N3	16 Analog/CVI Inputs, 16 + 8 IP Inputs, 3 TB		
	X22A3N4	16 Analog/CVI Inputs, 16 + 8 IP Inputs, 4 TB		
	X22A3N6	16 Analog/CVI Inputs, 16 + 8 IP Inputs, 6 TB		
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.)		





