

Penta-brid 1080p Mini DVR

16-Channel 12 TB Penta-brid 1080p-Lite 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 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 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

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		Camera Inputs	Model	Analog Inputs	IP Inputs
Main Processor	Embedded Processor	D 1 11	X22A3A	16 1080p at 15 fps	16+8 Up to 5 MP per
Operating System	Embedded LINUX	Resolution		per channel	channel
Display		Audio Connections	Model X22A3A	Audio IN 4	Audio OUT
, ,	One (1) HDMI	Two-way Talk		lio In (Channel 1) / Out,	
Interface	One (1) VGA	Recording			
Resolution	1920 × 1080, 1280 × 1024, 1280 × 720, 1024 × 768		Smart H.264+/H.264		
Multi-screen Display	1/4/8/9/16/25	Compression			
On-screen Display Options	Camera Title, Time, Video Loss, Camera lock, Motion Detection, and Recording	Resolution	1080p, 720p, 960H, D1, HD1, BCIF, CIF, QCIF		
Video Detection and Alarm		Record Rate			
Trigger Events	Recording, PTZ, Tour, Alarm Out, Video Push, Email, FTP, Snapshot, Buzzer, and Screen Tips	Main Stream	1080p at 1 to 15 fps or 1080N, 720p, 960H, D1, HD1, BCIF, CIF, QCIF at 1 to 30 fps		
Video Detection	Motion Detection, MD Zones: 396 (22 × 18),	Sub Stream	D1, CIF, QCIF at 1 to 30 fps		
	Video Loss, Tampering, and Diagnosis	Bit Rate	1 Kbps to 6144 Kbps per Channel		
Alarm input Relay Output	Three (3)	Record Mode	Manual, Schedule (Regular, Continuous), Motion Detection (Video detection: Motion Detection, Video Loss, Tampering), Alarm, and Stop		
Playback and Backup			1 to 60 minutes (default: 60 minutes)		
Playback	1/4/9/16	Record Interval			
Search Mode	Time / Date, Alarm, Motion Detection, and Exact Search (accurate to 1 second)	Network			
	Play, Pause, Stop, Rewind, Fast Play, Slow Play, Next File, Previous File, Next Camera,	Interface	One (1) RJ-45 Port (1000 M)		
Playback Function	Previous Camera, Full Screen, Repeat, Shuffle, Backup Selection, and Digital Zoom USB Device	Network Function			
Backup Mode	Network		Search (Supports Dahua IP cameras, DVRs, NVS)		
Storage		Max. User Access	128 users		
Internal HDD	Two (2) SATA Ports, up to 6 TB capacity for each disk	Mobile Operating System	IOS and Android		
HDD Mode	Single	Interoperability	ONVIF 2.4.1, CGI Conformant		
Auxiliary Interface		Electrical			
USB	One (1) USB 2.0 Port One (1) USB 3.0 Port	Power Supply	12 VDC, 4	A	
RS485	One (1) Port, for PTZ Control	Power Consumption	< 15 W, wi	ithout HDD	
Third-party Support	one (1) Fore, for F12 control	Environmental			
Tilliu-party Support	Dahua, Arecont Vision, AXIS, Bosch, Brickcom,	Operating Conditions	-10°C to +	55°C (+14°F to +131°F),	86 to 106 kpa
Third-party Support	Canon, CP Plus, Dynacolor, Honeywell, Panasonic, Pelco, Samsung, Sanyo, Sony, Videotec, Vivotek,	Storage Conditions	0°C to +50°C (+32°F to +122°F), 0 to 90% RH		
	and others	Construction			
		Dimensions		mm × 285.0 mm × 55.0 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 in	stallation	
		Certifications			
		Safety	Conforms	to UL Standard	

Electromagnetic Compatibility (EMC) FCC Part 15 Subpart B ANSI C63.4 – 2014 ICES 003

Pro Series | X22A3A

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	A target leaves an object in designated area, or a target				

Ordering Information				
Туре	Part Number	Description		
Penta-brid DVR	X22A3A	16 Analog/CVI Inputs, 16 + 8 IP Inputs, 0 TB 16 Alarm Inputs, 3 Alarm Outputs		
	X22A3A1	16 Analog/CVI Inputs, 16 + 8 IP Inputs, 1 TB 16 Alarm Inputs, 3 Alarm Outputs		
	X22A3A2	16 Analog/CVI Inputs, 16 + 8 IP Inputs, 2 TB 16 Alarm Inputs, 3 Alarm Outputs		
	X22A3A3	16 Analog/CVI Inputs, 16 + 8 IP Inputs, 3 TB 16 Alarm Inputs, 3 Alarm Outputs		
	X22A3A4	16 Analog/CVI Inputs, 16 + 8 IP Inputs, 4 TB 16 Alarm Inputs, 3 Alarm Outputs		
	X22A3A6	16 Analog/CVI Inputs, 16 + 8 IP Inputs, 6 TB 16 Alarm Inputs, 3 Alarm Outputs		

Dimensions (mm)









