

32-channel Penta-brid HDCVI DVR

Penta-brid 1080p 2U HDCVI Digital Video Recorder



- Embedded Processor
- Dual-stream Recording
- Smart H.264+ Video Compression
- Auto-detect and auto-configuration of HDCVI/AHD/CVBS/TVI/IP cameras
- Maximum 32 Camera Channels, HDCVI, AHD, CVBS, TVI, or IP Sources
- Maximum 64 Mbps Incoming Bandwidth
- Smart Search and Intelligent Video System (IVS)













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 compatible camera inputs simultaneously. The X24A series supports 32 camera inputs from any combination of HDCVI, AHD, TVI, CVBS, or IP cameras. 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)

With built-in intelligent video analytics on one (1) analog channel, the XVR has the ability to detect and analyze moving objects for improved video surveillance and perform actionable detection of edge camera tampering or malfunction. IVS also supports Tripwire analytics, allowing the XVR to detect when a pre-determined line has been crossed. IVS also offers facial detection, on the first analog channel, to detect and capture a snapshot of human face in a defined area within a scene.

Spot Output

The XVR provides a spot output channel for a secondary monitor. This monitor allows the operator to view one monitor that is assigned to selected cameras or video inputs from high-security areas.

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	Input	32 Channels Total, any combination of HDCVI, AHD, TVI, CVBS, or IP sources	
Main Processor	Embedded Processor	IP Camera Input		Each Channel up to 5 MP	
Operating System	Embedded Linux	Audio		Inputs: 16 Channels	
Display		Addio		Output: One (1) Channel	
Interface	Two (2) HDMI ports ce One (1) VGA port		y Talk	Input: One (1) BNC Microphone Connector Output: One (1) BNC Microphone Connector	
eu	One (1) 1 TV port	Record	ding		
Resolution	1920 x 1080, 1280 x 1024, 1280 x 720, 1024 x 768	Compression		Smart H.264+, H.264, MJPEG	
Multi-screen Display	1/4/8/9/16/25/36	Resolution		1080p, 720p, 960H, D1, HD1, BCIF, CIF, QCIF	
On-screen Display	Camera Title, Time, Video Loss, Camera Lock, Motion Detection, Recording	Record	Rate		
Video Detection and Alarm			Main Stream	1080p at 15 fps 1080N, 720p, 960H, D1, HD1, BCIF, CIF, QCIF at 30 fps	
Trigger Events	Recording, PTZ, Tour, Alarm Out, Video Push, Email, FTP, Snapshot, Buzzer and Screen Tips		Sub Stream	D1, CIF, QCIF at 15 fps	
Video Detection	Motion Detection, MD Zones: 396 (22 × 18), Video Loss, Tampering and Diagnosis	Bit Rate		1 Kbps to 6144 Kbps per Channel	
Alarm Input	16 Channels	Record	Mode	Manual, Schedule (Regular, Continuous), MD (Video Detection: Motion Detection, Video Loss, Tampering), Alarm, Stop	
Relay Output	Six (6) Channels	Record Interval		1 to 60 minutes (default: 60 minutes) Pre-record: 1 to 30 s	
Playback and Backup		Netwo	Post-record: 10 to 300 s Network		
Playback	1/4/9/16			Ture (2) DLAF Deste (4000 Mb = -)	
Search Mode	Time/Date, Alarm, MD and Exact Search (accurate to one second), Smart Search	Interface		Two (2) RJ-45 Ports (1000 Mbps)	
Playback Function	Play, Pause, Stop, Rewind, Fast Play, Slow Play, Next File, Previous File, Next Camera, Previous Camera, Full Screen, Repeat, Shuffle,	Networ	< Function	HTTP, TCP/IP, IPv4/IPv6, UPnP, RTSP, UDP, SMTP, NTP, DHCP, DNS, IP Filter, PPPoE,DDNS, FTP, Alarm Server, P2P, IP Search (Support for Dahua IP Cameras, DVRs, NVS)	
	Backup Selection, Digital Zoom	Maximu	m User Access	128 Users	
Backup Mode	USB Device and Network	Mobile Operating System		IOS and Android	
Storage		Interope	Interoperability ONVIF 2.4.1, CGI Conformant		
Internal HDD	8 SATA Ports, up to 8 TB capacity for each disk	Electri	Electrical		
HDD Mode	Single	Power S	upply	100 to 240 VAC, 50/60 Hz	
eSATA	One (1) Port	Power C	onsumption	< 35 W, without HDD	
Auxiliary Interface		Enviro	Environmental		
USB	Two (2) USB 2.0 Port Two (2) USB 3.0 Ports	Operati	ng Conditions	-10° C to +55° C (+14° F to +131° F)	
Control/PC222	RS232: PC Communication/Keyboard Control	Storage	Conditions	-20° C to +70° C (-4° F to +158° F), 0 to 90% RH	
Serial/RS232	RS422/485: PTZ Control	Consti	Construction		
Third-party Support		Dimensi	ons	2U, 440.0 mm x 455.10 mm x 94.90 mm (17.30 in. x 17.90 in. x 3.70 in.)	
Third-party Support	Dahua, Arecont Vision, AXIS, Bosch, Brickcom, Canon, CP Plus, Dynacolor, Honeywell, Panasonic, Pelco, Samsung, Sanyo, Sony, Videotec, Vivotek, and more	Net Wei	ght	6.50 kg (14.32 lb), without HDD	
		Gross W	eight	9.80 kg (21.60 lb)	
		Installat		Desktop or Rack-mount Installation	
			cations		
		Safety	nagnatic	Complies with UL Standard	
			nagnetic ibility (EMC)	FCC: VFHKEM1612001679IT CE: SHEM161100752701ITC	

Pro Series | X28A5S

Intelligence¹

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 (available on 1 analog channel)				
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.			
Advanced Features (available on the first analog channel)				
Facial Detection	Detects and captures a snapshot of human face in a defined area within a scene.			

Ordering Information				
Туре	Part Number	Description		
	X28A5S	32-channel Penta-brid 1080p, 2U, HDCVI Digital Video Recorder		
	X28A5S2	32-channel Penta-brid 1080p, 2U, 2 TB HDCVI Digital Video Recorder		
32-channel XVR	X28A5S4	32-channel Penta-brid 1080p, 2U, 4TB HDCVI Digital Video Recorder		
52-channel XVK	X28A5S6	32-channel Penta-brid 1080p, 2U, 6 TB HDCVI Digital Video Recorder		
	X28A5S12	32-channel Penta-brid 1080p, 2U, 12 TB HDCVI Digital Video Recorder		
	X28A5S24	32-channel Penta-brid 1080p, 2U, 24 TB HDCVI Digital Video Recorder		

Dimensions









^{1.} The IVS features are operational only when the additional IP channel feature is not active. The XVR supports only IVS or the additional IP channel inputs, both features cannot be in use simultaneously.