

16-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 16+8 IP Camera Channels, up to 5 MP per Channel
- Maximum 96 Mbps Incoming Bandwidth
- Smart Search and Intelligent Video System











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 X38A series supports 24 cameras, up to 16 of which can be HDCVI/AHD/TVI/CVBS cameras and the remainder 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 schedules 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.

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			HDCVI Camera Input		16 Channels
Main Processor	Embedded Processor		IP Camera Input		16+8 Channels, each channel up to 5 MP
Operating System	Embedded Linux		Audio		Inputs: 16 Channels Outputs: One (1) Channel
Display			Two-way Talk		Input: One (1) BNC Microphone Connector Output: One (1) BNC Microphone Connector
Interface	Two (2) HDMI ports One (1) VGA port One (1) 1 TV port		Recording		output. One (1) and mid-optione connector
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		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 Ala	·		Main Stream		1080p, 720p, 960H, D1, HD1, BCIF, CIF, QCIF at 30 fps
Trigger Events	Recording PTZ Tour Alarm Out Video Push Email			Sub Stream	D1, CIF, QCIF at 30 fps
migger Events	FTP, Snapshot, Buzzer and Screen Tips		Bit Rate		1 Kbps to 6144 Kbps per Channel
Video Detection	Motion Detection, MD Zones: 396 (22 × 18), Video Loss, Tampering and Diagnosis		Record Mode		Manual, Schedule (Regular, Continuous), MD (Video Detection: Motion Detection, Video Loss, Tampering), Alarm, Stop
Alarm Input	16 Channels				1 to 60 minutes (default: 60 minutes)
Relay Output	Six (6) Channels		Record Interval		Pre-record: 1 to 30 s Post-record: 10 to 300 s
Playback and Backup			Network		
Playback	1/4/9/16		Interface		Two (2) RJ-45 Ports (1000 Mbps)
Search Mode	Time /Date, Alarm, MD and Exact Search (accurate to one second), Smart Search		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 for Dahua IP Cameras, DVRs, NVS)
Playback Function	Play, Pause, Stop, Rewind, Fast Play, Slow Play, Next File, Previous File, Next Camera, Previous Camera, Full Screen, Repeat, Shuffle, Backup Selection, Digital Zoom				
			Maximum User Access		128 Users
Backup Mode	USB Device and Network		Mobile Operating System		IOS and Android
Storage			Interoperability ONVIF 2.4.1, CGI Conformant		ONVIF 2.4.1, CGI Conformant
Internal HDD	8 SATA Ports, up to 8 TB capacity for each disk		Electrical		
HDD Mode	Single		Power Supply		100 to 240 VAC, 50/60 Hz
eSATA	One (1) Port		Power Consumption		< 35 W, without HDD
Auxiliary Interface			Environmental		
USB	Two (2) USB 2.0 Ports		Operating C	Conditions	-10° C to +55° C (+14° F to +131° F)
030	Two (2) USB 3.0 Ports		Storage Conditions		-20° C to +70° C (-4° F to +158° F), 0 to 90% RH
Serial/RS232	RS232: PC Communication/Keyboard Control		Construction		
RS422/485: PTZ Control Third-party Support			Dimensions		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,		Net Weight		6.50 kg (14.32 lb), without HDD
			Gross Weigl	ht	9.80 kg (21.60 lb)
	and more		Installation		Desktop or Rack-mount Installation
			Certificat	ions	
			Safety		Complies with UL Standard

Electromagnetic Compatibility (EMC) FCC: VFHKEM1612001678IT CE: SHEM161100752901ITC

Ultra Series | X38A3S

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		
16-channel XVR	X38A3S	16-channel Penta-brid, 1080p, 2U, HDCVI Digital Video Recorder		
	X38A3S2	16-channel Penta-brid, 1080p, 2U, 2 TB HDCVI Digital Video Recorder		
	X38A3S4	16-channel Penta-brid, 1080p, 2U, 4 TB HDCVI Digital Video Recorder		
	X38A3S6	16-channel Penta-brid, 1080p, 2U, 6 TB HDCVI Digital Video Recorder		
	X38A3S12	16-channel Penta-brid, 1080p, 2U, 12 TB HDCVI Digital Video Recorder		
	X38A3S24	16-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.