

16-channel Penta-brid HDCVI DVR

Penta-brid 1080p 1.5U 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 Channel, 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 all compatible camera inputs simultaneously. The X34A series supports up to 24 cameras, 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.



Ultra Series | X34A3L

Technical Specification System Main Processor Embedded Processor Embedded Linux **Operating System** Display Two (2) HDMI ports Interface One (1) VGA port One (1) 1 TV port Resolution 1920 x 1080, 1280 x 1024, 1280 x 720, 1024 x 768 Multi-screen Display 1/4/8/9/16/25 Camera Title, Time, Video Loss, Camera Lock, **On-screen** Display Motion Detection, Recording Video Detection and Alarm Recording, PTZ, Tour, Alarm Out, Video Push, Email, Trigger Events FTP, Snapshot, Buzzer and Screen Tips Motion Detection, MD Zones: 396 (22 × 18), Video Detection Video Loss, Tampering and Diagnosis Alarm Input 16 Channels **Relay Output** Six (6) Channels Playback and Backup 1/4/9/16 Playback Time/Date, Alarm, MD and Exact Search (accurate Search Mode to one second), Smart Search Play, Pause, Stop, Rewind, Fast Play, Slow Play, Next File, Previous File, Next Camera, **Playback Function** Previous Camera, Full Screen, Repeat, Shuffle, Backup Selection, Digital Zoom Backup Mode USB Device and Network Storage Internal HDD 4 SATA Ports, up to 8 TB capacity for each disk HDD Mode Single eSATA One (1) Port Auxiliary Interface One (1) USB 2.0 Port USB Two (2) USB 3.0 Ports RS232: PC Communication/Keyboard Control Serial/RS232 RS422/485: PTZ Control Third-party Support Dahua, Arecont Vision, AXIS, Bosch, Brickcom, Canon, CP Plus, Dynacolor, Honeywell, Panasonic, Third-party Support Pelco, Samsung, Sanyo, Sony, Videotec, Vivotek, and more

Audio and	d Video		
HDCVI Camera Input		16 Channels	
IP Camera Input		16+8 IP Channels, each channel up to 5 MP	
Audio		Inputs: Four (4) Channels Outputs: One (1) Channel	
Two-way Talk		Input: One (1) BNC Microphone Connector Output: One (1) BNC Microphone Connector	
Recording			
Compression		Smart H.264+, H.264, MJPEG	
Resolution		1080p, 720p, 960H, D1, HD1, BCIF, CIF, QCIF	
Record Rate			
	Main Stream	1080p, 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), MD (Video Detection: Motion Detection, Video Loss, Tampering), Alarm, Stop	
Record Interval		1 to 60 minutes (default: 60 minutes) Pre-record: 1 to 30 s Post-record: 10 to 300 s	
Network			
Interface		One (1) RJ-45 Port (1000 Mbps)	
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)	
Maximum User Access		128 Users	
Mobile Operating System		IOS and Android	
Interoperability		ONVIF 2.4.1, CGI Conformant	
Electrical			
Power Supply		100 to 240 VAC, 50/60 Hz	
Power Const	umption	< 30 W, without HDD	
Environm	ental		
Operating C	onditions	-10° C to +55° C (+14° F to +131° F)	
Storage Con	ditions	-20° C to +70° C (-4° F to +158° F), 0 to 90% RH	
Construct	tion		
Dimensions		1.5U, 440.0 mm x 416.70 mm x 76.0 mm (17.30 in. x 16.40 in. x 3.0 in.)	
Net Weight		6.0 kg (13.23 lb), without HDD	
Gross Weigh	it	7.0 kg (15.43 lb)	
Installation		Desktop or Rack-mount Installation	
Certificati	ions		
Safety		Complies with UL Standard	
Electromagnetic Compatibility (EMC)		FCC: VFHKEM1612001682IT CE: SHEM161100752101ITC	

Ultra Series | X34A3L

Intelligence¹

IVS triggers an alarm and takes a defined action for the following events:

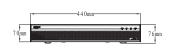
Standard Features	 Tampering with the camera. Error writing to an onboard Micro SD card. Error sending or receiving data over the network. Unauthorized access to the camera. 			
Premium Features (available on 1 analog channel)				
Motion	An object moves through any part of the scene.			
Tripwire	A target 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
Facial Detection	defined area within a scene.

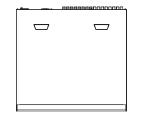
Ordering Information

Туре	Part Number	Description
	X34A3L	16-channel Penta-brid, 1080p, 1.5U, HDCVI Digital Video Recorder
	X34A3L2	16-channel Penta-brid, 1080p, 1.5U, 2 TB HDCVI Digital Video Recorder
	X34A3L4	16-channel Penta-brid, 1080p, 1.5U, 4 TB HDCVI Digital Video Recorder
16-channel XVR	X34A3L6	16-channel Penta-brid, 1080p, 1.5U, 6 TB HDCVI Digital Video Recorder
	X34A3L12	16-channel Penta-brid, 1080p, 1.5U, 12 TB HDCVI Digital Video Recorder
	X34A3L24	16-channel Penta-brid, 1080p, 1.5U, 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.

