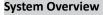


4K Penta-brid HDCVI DVR

8-Channel 1U Digital Video Recorder with IoT Support



- 4K at 15 fps Recording Resolution on All HDCVI Channels
- Available with 2 TB, 4 TB, 6 TB, or 8 TB Pre-installed Hard Drive
- · Dual-stream Video Recording
- Smart H.265+ and Smart H.264+ Dual Codec
- Auto-detection and Auto-configuration of Video Inputs
- 8 + 8 IP Camera Channels, each channel up to 8 MP
- · Maximum 64 Mbps Incoming Bandwidth
- Smart Search and Intelligent Video System
- Spot Output
- Five-year Warranty*



The X72B Series HDCVI DVR offers 4K recording on each HDCVI channel and a host of advanced features and functions. The X72B takes advantage of HDCVI technology for easy integration into existing video surveillance systems while leveraging existing networks, cabling, and cameras. Penta-brid access technology seamlessly records video from HDCVI, AHD, TVI, CVBS, and IP sources simultaneously, plus the DVR delivers 4K resolution on each HDCVI or IP channel.

The X72B utilizes the Smart H.265+ Codec to significantly improve encoding efficiency and to reduce bandwidth and storage costs. This recorder is the ideal solution for actively monitoring and recording video feeds in a wide range of applications including public venues, retail stores, transportation hubs and access ways, personal property and homes, and educational institutions.

Functions

Smart H.265+

Smart H.265+ is the optimized implementation of the H.265 codec that uses a scene-adaptive encoding strategy, dynamic GOP, dynamic ROI, flexible multi-frame reference structure and intelligent noise reduction to deliver high-quality video without straining the network. Smart H.265+ technology reduces bit rate and storage requirements by up to 90% when compared to the H.264 video compression standard.

4K Resolution

The HDCVI DVR records 4K resolution on each HDCVI and IP channel. 4K is a revolutionary breakthrough in image processing technology. 4K delivers four times the resolution of standard HDTV 1080p cameras and offers superior picture quality and image details. 4K resolution improves the clarity of a magnified scene to view or record crisp forensic video from large areas.

HDCVI/AHD/TVI/CVBS Auto-detect

The HDCVI DVR automatically recognizes the incoming signals of each attached camera without any setup, making installation easy and operation convenient.













Long Distance Transmission

HDCVI technology guarantees real-time transmission over long distances without loss of video quality. HDCVI devices provide the same resolution as most IP network camera systems using existing RG-59, RG-6, or CAT 6 UTP cabling.

Spot Output

The HDCVI DVR 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 Fan Design

The HDCVI DVR automatically turns on or turns off the fan according to the CPU temperature. This function reduces fan noise and helps to conserve electricity.

Intelligent Video System (IVS)

IVS is a built-in video analytic algorithm that delivers standard intelligent functions to monitor a scene for tripwire violations, intrusion detection, and abandoned or missing objects. IVS quickly and accurately responds to monitoring events in a specific area.

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.

recinited 5p	ecification		Network		
System			Interface	One (1) RJ-45 (1000 Mbps) Port	
Main Processor		Embedded Processor Embedded LINUX	Network Function	HTTP, TCP/IP, IPv4/IPv6, UPnP, RTSP, UDP, SMTP, NTI DHCP, DNS, IP Filter, PPPoE,DDNS, FTP, Alarm Server, P2P, IP Search (Supports Dahua IP cameras, DVRs, NV	
Operating System		Embedded Enton	Max. User Access	128 Users	
Interface		5: 1. (0) 01	Mobile Operating	120 05615	
Analog Camera I	nput	Eight (8) Channels, BNC	System	IOS, Android	
HDCVI		8 MP, 6 MP, 5 MP, 4 MP, 1080p at 30 fps, 720p at 60 fps, 720p at 30 fps	Interoperability	ONVIF 16.12, CGI Conformant	
AHD		5 MP, 4 MP, 3 MP, 1080p at 30 fps, 720p at 30 fps	Video Detection a	Video Detection and Alarm	
TVI		5 MP, 4 MP, 3 MP, 1080p at 30 fps, 720p at 30 fps	Triggor Events	Recording, PTZ, Tour, Video Push, Email, FTP, Snapsh	
CVBS		NTSC	Trigger Events	Buzzer and Screen Tips	
IP Camera Input		8+8 Channels, each channel up to 8 MP	Video Detection	Motion Detection, MD Zones: 396 (22 × 18), Video Loss, Tampering and Diagnosis	
Audio		Input: Four (4) Channels, RCA Output: One (1) Channel, RCA	Alarm Input	Eight (8) Channels	
Two-way Talk		Audio Input Channel 1 In/ Audio Output, RCA	Relay Output	Three (3) Channels	
		Addio input channel 1 in/ Addio output, nex	Playback and Back		
Recording		S	Flayback allu back	καρ	
Compression		Smart H.265+, H.265, Smart H.264+, H.264	Playback	1/4/9	
Recording Resol	ution	8 MP, 6 MP, 5 MP, 4 MP, 3 MP, 1080p, 720p, 960H, D1, CIF 8 MP at 15 fps;	Search Mode	Time/Date, Alarm, MD and Exact Search (accurate to 1 second)	
Record Rate	Main Stream	6 MP or 5 MP at 20 fps; 4 MP, 3 MP, 1080p, 720p, 960H, D1, CIF at 30 fps	Playback Function	Play, Pause, Stop, Rewind, Fast Play, Slow Play, Next F Previous File, Next Camera, Previous Camera, Full Scr Repeat, Shuffle, Backup Selection, and Digital Zoom	
	Sub Stream	960H at 15 fps; D1 or CIF at 30 fps	Backup Mode	USB Device/Network	
Maximum Incoming Bandwidth		64 Mbps	Storage		
Bit Rate		32 Kbps to 8192 Kbps per Channel	J		
Record Mode		Manual, Schedule (Regular, Continuous), MD (Video Detection: Motion Detection, Video Loss, Tampering), Alarm, Stop	Auxiliary Interface	Two (2) SATA Ports, up to 10 TB capacity for each dis	
		1 to 60 minutes (default: 60 minutes),			
Record Interval		Pre-record: 1 to 30 s, Post-record: 10 to 300 s	USB	One (1) USB 2.0 Port and One (1) USB 3.0 Port	
Audio Compress	ion	AAC (first channel only), G.711a, G.711u, PCM	RS485	One (1) Port for PTZ Control	
Audio Sample Ra		8 KHz, 16 bits per Channel	Electrical		
Audio Bit Rate		64 Kbps per Channel	Power Supply	12 VDC, 5 A	
Display			Power Consumption	< 15 W, without HDD	
. ,		One (1) HDMI (3840 x 2160)	Construction		
Interface		One (1) VGA (1920 x 1080)	Dimensions		
Spot Output		HDMI or VGA, configurable 3840 x 2160, 2560 x 1440, 1920 x 1080, 1280 x 1024,	HDCVI DVR	1U, 375.0 mm x 287.15 mm x 53.0 mm (14.80 in. x 11.31 in. x 2.09 in.)	
Native Output Resolution	HDMI	1280 x 720, 1024 x 768	with PFH101	482.6 mm x 287.15 mm x 53.0 mm	
Resolution	VGA	1920 x 1080, 1280 x 1024, 1280 x 720	Rack Mount Tray	(19.0 in. x 11.31 in. x 2.09 in.)	
		Eight (8) Channels of 8 MP at 7 fps	Net Weight	1.70 kg (3.70 lb)	
		Eight (8) Channels of 6 MP or 5 MP at 10 fps Eight (8) Channels of 4 MP or 3 MP at 15 fps	Gross Weight	3.10 kg (6.83 lb)	
Maximum Playb	ack Decoding	Eight (8) Channels of 1080p, 720p, 960H at 30 fps Four (4) Channels of 8 MP at 15 fps	Installation	Desktop or Rack-mount	
,		Four (4) Channels of 6 MP or 5 MP at 20 fps Four (4) Channels of 4 MP/3MP/1080p/720p at 30 fps One (1) Channel of 8 MP at 30 fps	Video Transmissio	n Distance	
			RG-59/U Coax	720p: 800 m (2624.67 ft) 1080p: 500 m (1640.42 ft) 4K/4MP: 500 m (1640.42 ft)	
Multi-screen Dis	play	IP extension mode disabled: 1/4/8/9 IP extension mode enabled: 1/4/8/9/16		720p: 1200 m (3937.01 ft)	
On-sceen Display		Camera Title, Time, Video Loss, Camera Lock, Motion Detection, Recording	RG-6/U Coax	1080p: 800 m (2624.67 ft) 4K/4MP: 700 m (2296.59 ft)	
			CAT 6 UTP	720p: 450 m (1476.38 ft) 1080p: 300 m (984.25 ft)	

Pro Series | X72B2A Series

Environmental

Operating Conditions	−10° C to +55° C (+14° F to +131° F), 10% to 90% RH
Storage Conditions	−20° C to +70° C (−4°F to +158° F), 0% to 90% RH

Third-party Support

Third-party Support	Dahua, Arecont Vision, AXIS, Bosch, Brickcom, Canon, CP Plus, Dynacolor, Honeywell, Panasonic, Pelco, Samsung, Sanyo, Sony Videotec, Vivotek, and others
Tima party support	

Certifications

Safety	UL 60950-1 EN 60950-1 IEC 60950-1
Electromagnetic Compatibility (EMC)	FCC CFR 47 Part 15 Subpart B EN 61000-3-2 EN 61000-3-3 EN 55032 EN 50130 EN 55024

Intelligence

The IVS features are operational only when the additional IP channel feature is not active. The HDCVI DVR supports only IVS or the additional IP channel inputs, both features cannot be in use simultaneously. IVS triggers an alarm and takes a defined action for the following

Premium Features

Tripwire	A target crosses a user-defined line.
Intrusion	A target enters or exits a defined perimeter.
Abandoned/Missing Object	A target leaves an object in designated area, or a target removes an object from the same designated area.

IVS Feature Availability

The HDCVI DVR supports the following IVS availability:

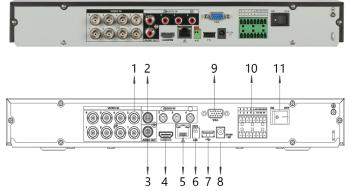
- All Analog Channels: Tripwire/Intrusion, OR
 Analog Channels 1 to 4: Abandoned/Missing Object

Ordering Information

Туре	Part Number	Description
	X72B2A2	8-Channel Penta-brid 4K 1U, 2 TB Digital Video Recorder
AK LID CAL DAND	X72B2A4	8-Channel Penta-brid 4K 1U, 4 TB Digital Video Recorder
4K HDCVI DVR	X72B2A6	8-Channel Penta-brid 4K 1U, 6 TB Digital Video Recorder
	X72B2A8	8-Channel Penta-brid 4K 1U, 8 TB Digital Video Recorder
Accessory, optional	DH-PFH101	Rack Mount Tray 482.60 mm x 281.20 mm x 43.7 mm (19.0 in. x 11.07 in. x 1.72 in.)

Rear Panel

X72B2A



1	Video Input (x8 BNC)	7	USB Port
2	Audio Input (x4 RCA)	8	Power Input
3	Audio Output (x1 RCA)	9	VGA Output
4	HDMI Output	10	Alarm Input (x8) Alarm Output (x3)
5	RJ-45 Ethernet Port (1000 Mbps)	11	Power Switch
6	RS485 Port		

Dimensions

