

1080p H.265 Penta-brid HDCVI DVR

4+2 Channel Mini 1U HDCVI Digital Video Recorder



Embedded Processor

- Smart H.265+ and Smart H.264+ Dual Codec
- Dual-stream Recording
- 5 M-N (1296 x 1944) at 20 fps Maximum Recording Resolution
- Four (4) HDCVI, AHD, TVI, CVBS Channels
- 4 + 2 IP Channels, up to 6 MP per Channel
- Maximum 24 Mbps Incoming Bandwidth
- Built-in Smart Search
- Intelligent Video System
- One (1) SATA HDD Port, up to 6 TB per Hard Disk Drive
- Five-year Warranty*



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.

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

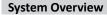
HDCVI technology guarantees real-time transmission over long distances without loss of video quality. HDCVI devices provide the same resolution as most IP network camera systems using existing RG-59, RG-6, or CAT 6 UTP cabling.

Intelligent Video System (IVS)

With built-in IVS analytics on up to two (2) channels, the HDCVI DVR 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.

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.



The X51B1E Series HDCVI DVR offers 1080p recording on each HDCVI channel and a host of advanced features and functions. The X51B1E 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.

The X51B1E 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.

Camera Connections

Record and monitor video from analog/HDCVI camera inputs and IP camera inputs simultaneously. The X51B1E series supports a maximum of six (6) channels, with up to four (4) channels of HDCVI/AHD/TVI/CVBS inputs and up to an additional two (2) channels of IP inputs. The flexibility of the HDCVI DVR allows all six (6) 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 recorder).

Flexible Recording

The HDCVI DVR offers a variety of configurable recording options and schedule that saves HDD space and active monitoring time. The recorder monitors incoming video and can be programmed to record if motion is detected or if an alarm is triggered. The recorder 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.

Lite Series | X51B1E

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	Audio Compression		AAC (first channel only), G.711A, G.711U, PCM		
Audio Bit Rate 64 Kbps per Channel	Audio Sample Rate		8 KHz, 16 bits per Channel		
	Audio Bit Rate		64 Kbps per Channel		

Display				
Interface	One (1) HDMI (3840 x 2160) One (1) VGA (1920 x 1080)			
Native Output Resolution	1920 x 1080, 1280 x 1024, 1280 x 720			
Maximum Decoding	4 Channels of 5 M-N at 10 fps 4 Channels of 1080p at 7 fps 4 Channels of 720p at 15 fps 4 Channels of 960H at 30 fps			
Multi-screen Display				
IP extension mode disabled	1/4			
IP extension mode enabled	1/4/6			
On-screen Display	Camera Title, Time, Video Loss, Camera Lock, Motion Detection, Recording			
Network				
Interface	One (1) RJ45 (100 Mbps) Port			
Network Function	HTTP, HTTPS, TCP/IP, IPv4/IPv6, UPnP, RTSP, UDP, SMTP, NTP, DHCP, DNS, IP Filter, PPPoE,DDNS, FTP, Alarm Server, P2P, IP Search (Supports Dahua IP cameras, DVRs, NVS)			
Maximum User Access	128 Users			
Mobile Operating System	IOS, Android			
Interoperability	ONVIF 16.12, CGI Conformant			
Video Detection and Alarm				
Alarms				
Trigger Events	Recording, PTZ, Tour, Video Push, Email, FTP, Snapshot, Buzzer and Screen Tips			
Video Detection	Motion Detection, MD Zones: 396 (22 × 18), Video Loss, Tampering and Diagnosis			
Alarms				
Input	Eight (8) Channels			
Output	Three (3) Channels			
Playback and Bac	kup			
Playback	1/4			
Search Mode	Time/Date, Alarm, MD, Intel, and Exact Search (accurate to 1 second)			
Playback Function	Play, Pause, Stop, Rewind, Fast Play, Slow Play, Next File, Previous File, Next Camera, Previous Camera, Full Screen, Repeat, Shuffle, Backup Selection, and Digital Zoom			
Backup Mode	USB Device/Network			
Storage				
Internal HDD	One (1) SATA Ports, up to 6 TB capacity			
Auxiliary Interfac	e			
USB	Two (2) USB 2.0 Ports			
RS485	One (1) Port for PTZ Control			
Electrical				
Power Supply	12 VDC, 1.5 A			
Power Consumption	< 10 W, without HDD			

 The M-N resolution refers to technology that allows a 1080p HDCVI DVR to accept a video signal from a 5 MP or a 4 MP camera by sampling every other pixel on a horizontal line from the camera. The resulting recording resolutions are: 5 M-N: 1296 x 1944; 4 M-N: 1280 x 1440.

Lite Series | X51B1E

Construction

Dimensions	
HDCVI DVR	Mini 1U, 325.0 mm x 255.0 mm x 55.0 mm (12.80 in. x 10.04 in. x 2.17 in.)
with PFH101 Rack Mount Tray	482.6 mm x 287.15 mm x 53.0 mm (19.0 in. x 11.31 in. x 2.09 in.)
Net Weight, without HDD	1.10 kg (2.43 lb)
Gross Weight	1.80 kg (3.97 lb)
Installation	Desktop or Rack-mount
Environmental	
Operating Temperature	–10° C to +45° C (+14° F to +113° F), up to 55° C (131° F) with case fan, 10% to 90% RH

Storage -20° C to +70° C (-4° F to +158° F), 0% to 90% RH Temperature

Certifications

Safety	UL 60950-1 CAN/CSA C22.2 No. 60950-1-07 EN 60950-1/IEC 60950-1
Electromagnetic Compatibility (EMC)	47 CFR FCC Part 15 Subpart B:2016 EN 55032:2015, EN 61000-3-2:2014, EN 61000-3-3:2013, EN 50130-4:2011 + A1:2014
Immunity	EN 55024:2010 + A1:2015

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 events:

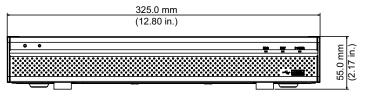
Premium Features

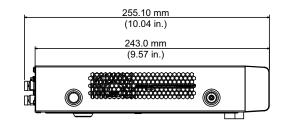
HDCVI DVR supports IVS features on only two (2) channels simultaneously. Each channel supports up to ten (10) IVS rules.

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.

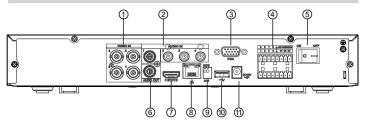
Ordering Information				
Туре	Part Number	Description		
4-channel HDCVI DVR	X51B1E2	4 Analog/CVI Inputs, 4 + 2 IP Inputs, 2 TB HDD		
	X51B1E4	4 Analog/CVI Inputs, 4 + 2 IP Inputs, 4 TB HDD		
	X51B1E6	4 Analog/CVI Inputs, 4 + 2 IP Inputs, 6 TB HDD		
Accessories, optional	PFH101	Rack-mount Tray		

Dimensions (mm/in.)





Rear Panel



1	Video IN, BNC x 4	7	HDMI OUT
2	Audio IN, RCA x 4	8	Network Port
3	VGA OUT	9	RS485 Port
4	Alarm I/O	10	USB Port
5	Power Switch	11	12 VDC Power IN
6	Audio OUT, RCA x 1		



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