

TDHDX8-4K

8 CHANNEL PENTA-BRID 4K MINI 1U DIGITAL



- · H.265+/H.265 dual-stream video compression
- · Supports HDCVI/AHD/TVI/CVBS/IP video inputs
- · Max 12 channels IP camera inputs, each channel up to 8MP; Max 48Mbps Incoming Bandwidth
- · Smart Search and Intelligent Video System



System Overview

With the surveillance operators pursuing to HD/UHD which further adds the storage and transmission cost, HDCVI H.265+/H.265 has been released to incredibly decrease the required bitrate while ensuring the video quality in realizing high resolution surveillance such as 4MP/4K.

The HD Series is designed for high cost performance and quality. The range offers a great solution for users facing budget constraints who both require quality and performance. And with the adoption of Smart H.265+/H.265, the series improves encoding efficiency, saving on bandwidth/storage costs, and significantly reducing the Total Cost of Ownership (TCO).

Functions

Smart H.265+

Smart Codec, H.265+ can reduce up to 90% bit rate and storage requirements compared with H.264 without having to invest in new cameras.

HDCVI/AHD/TVI/CVBS Auto-detect

The HD-XVR can auto recognize the signal of front-camera without any setting. It makes operation more friendly and convenient.

8MP Resolution

The HD-XVR supports up to 8MP HD resolution (3840 x 2160) HDCVI camera and IP camera input.

Coaxial Audio/Upgrade/Alarm

The integrated design can reduce wiring troubles which makes it much more cost-effective and convenient for installation.

Long Distance Transmission

The HDCVI system supports long distance video transmission over coaxial cable and UTP, max. 700m for 4K/4MP, 800m for 1080P and 1200m for 720P.

Smart Fan Design

The smart fan can automatically turn on or turn off according to the CPU temperature. This function can effectively reduce the fan noise to provide a better user experience.

Intelligent Video System (IVS)

With built-in intelligent video analytics, the HD-XVR has the ability to detect and analyze moving objects for improved video surveillance. The HD-XVR provides optional standard intelligence at the edge allowing detection of multiple object behaviors such as abandoned or missing objects. IVS also supports Tripwire analytics, allowing the camera to detect when a pre-determined line has been crossed.

Face Detection

It is a typical technology being used in a variety of applications for searching or identification of individuals.

Smart Search

This function helps you get more motion detect video during a short time through drawing a region when playback. It is very useful when an emergency occurs.



Main Processor Proberdied Processor Proces	Technical Specific		Video Detection ar	
Departing System	System Main Processor	Emhedded Processor	Trigger Events	Recording, PTZ, Tour, Video Push, Email, FTP, Snapshot, Buzzer and Screen Tips
Analog Camera Input	Operating System		Video Detection	Motion Detection, MD Zones: 396 (22 × 18), Video Loss, Tampering and Diagnosis
Analog Camera Input	Video and Audio		Alarm input	N/A
ABC ABC SAMP AMP, 1080 P8 25 (1061) P. 709 P8 50 (1061) P. 19 Payback and Backup		9 Channel BNC	Relay Output	N/A
### ### ### ### ### ### ### ### ### ##	Analog Camera Input		Playback and Back	up
Time Date, Alarm, MD and Exact Search (securate to Search Mode Time Date, Alarm, MD and Exact Search (securate to Search Mode Play, Passer, Stop, Stop, Passer, Stop, Passer, Stop, Stop	HDCVI Camera			
Manual Second Manual S	AHD Camera	5MP, 4MP, 3MP, 1080P@25/30, 720P@25/30fps		
Payback Function	TVI Camera	5MP, 4MP, 3MP, 1080P@25/30, 720P@25/30fps	Search Mode	
Plantage	CVBS Camera	PAL/NTSC		Play, Pause, Stop, Rewind, Fast play, Slow Play, Next File, Previous File, Next Camera, Previous Camera, Full Screen
Backup Mode	IP Camera Input	8+4 Channel, each channel up to 8MP	Playback Function	
Storage	Audio In/Out	1/1, RCA	De aloro Marda	
Internal HDD	Two-way Talk	Reuse audio in/Out, RCA		USB Device/Network
Search S	Recording		Storage	
### Resolution	Compression	H.265+/H.265/H.264+/H.264	Internal HDD	1 SATA Port, up to 10TB capacity
Main stream dK(1-7)rbs, 6MP(1-10frs), 5MP(1-12frs), 4MP(2MP(1-15fps), 4MP(2MP(1-15fps), 5MP(1-12frs)), 4MP(2MP(1-15fps), 4M-N/2080P(720P)5G0H/O1/CIF [1-25/90fps)			eSATA	N/A
### ### ### ### ### ### ### ### ### ##	Resolution	4K, 6MP, 5MP, 4MP, 3MP, 4M-N, 1080P, 720P, 960H, D1, CIF	Auxiliary Interface	
(1-25/30/ps) Sub stream; 960H(1-15/ps); DI/CIF(1-25/30/ps) R5232 N/A	Record Rate	4MP/3MP(1~15fps), 4M-N/1080P/720P/960H/D1/CIF (1~25/30fps)	USB	2 USB Ports (1 USB 2.0 , 1 USB 3.0)
Bit Rate 32Kbps*6144Kbps Per Channel Electrical Electrical Record Mode Manual, Schedule (General, Continuous), MD (Video detection: Motion Detection, Video Loss, Tampering), Alarm, Stop Power Supply 8CH:DC12V/2A Record Interval 1*60 min (Jediault: 60 min), Pre-record: 1*30 sec, Post-record: 10*300 sec (without HDD) 8CH:210W Audio Campression G.711A, G.711U, PCM Construction Dimensions Mini 1U, 325mmx255mmx55mm (12.8* x 10* x 2.2*) Audio Bit Rate 6KKbps Per Channel Dimensions Mini 1U, 325mmx255mmx55mm (12.8* x 10* x 2.2*) Audio Bit Rate 6KKbps Per Channel Dimensions Mini 1U, 325mmx255mmx55mm (12.8* x 10* x 2.2*) Audio Bit Rate 6KKbps Per Channel Dimensions Mini 1U, 325mmx255mmx55mm (12.8* x 10* x 2.2*) Audio Bit Rate 6KKbps Per Channel Dimensions Mini 1U, 325mmx255mmx55mm (12.8* x 10* x 2.2*) Audio Bit Rate 6KKbps Per Channel Dimensions Mini 1U, 325mmx255mmx55mm (12.8* x 10* x 2.2*) Audio Bit Rate 6KKbps Per Channel Dimensions Mini 1U, 325mmx255mmx55mm (12.8* x 10* x 2.2*) Audio Bit Rate 6KKbps Per Channel Dimensions Mini 1U, 325mmx255mmx55mm (12.8* x 10* x 2.2*) Audio Bit Rate 6KKbps Per Channel Dimensions Mini 1U, 325mmx255mmx55mm (12.8* x 10* x 2.2*) Brew Fight 48Smmx281mmx56mm (19.0*x11.1*x 2.2*) Brew Fight 48Smmx281mmx56mm (RS232	N/A
Record Mode Manual, Schedule (General, Continuous), MD (Video detection: Motion Detection, Video toss, Tampering), Alarm, Stop Record Interval 1 ~ 60 min (default: 60 min), Pre-record: 1 ~ 30 sec, Post-record: 10 ~ 300 sec Record Interval 1 ~ 60 min (default: 60 min), Pre-record: 1 ~ 30 sec, Post-record: 10 ~ 300 sec Audio Compression G.711A, G.711U, PCM Audio Sample Rate 8 KHz, 16 bit Per Channel Dimensions Mini 1U, 325mmx255mmx55mm (12.8" x 10" x 2.2") Audio Bit Rate 64kbps Per Channel Rack Mount Tray 483mmx281mmx56mm (19.0"x11.1"x2.2") Net Weight (without HDD) 8CH: 1.2kg (4.2 lb) Display Net Weight (without HDD) 8CH: 1.9kg (4.2 lb) Installation Desktop installation Per vertension mode not enabled: 8CH: 1.74/R/9 When IP extension mode enabled: 8CH: 1.74/R/9 When IP extension mode enabled: 8CH: 1.74/R/9/16 OSD Camera title, Time, Video loss, Camera lock, Motion detection, 8CH: 1.74/R/9/16 Network Network Network Function SMP, NTP, DHCP, DNS, IP Filter, PPPOE, DDNS, FTP, Alarm Server, P2P, P Search (Supports Dahua IP camera, DVR, NVS, etc.) Max. User Access 128 users Certifications Certifications Certifications Certifications Certifications Certific		Sub stream: 960H(1~15fps); D1/CIF(1~25/30fps)	RS485	1 Port, for PTZ Control
Motion Detection, Video Loss, Tampering), Alarm, Stop Power Supply 8CH:DCI2V/ZA Record Interval 1° 60 min (default: 60 min), Pre-record: 1° 30 sec, Post- record: 10 ° 300 sec Value of Construction Audio Compression G711A, G711U, PCM COnstruction Dimensions Mini 1U, 325mm×255mm×55mm (12.8" x 10" x 2.2") Audio Bit Rate 8KHz, 16 bit Per Channel Bit Rate 64Kbps Per Channel Audio Bit Rate 64Kbps Per Channel Display Interface 1 HDMI, 1 VGA Resolution Resolution When IP extension mode not enabled: SCH: 1/28/J0 When IP extension mode enabled: SCH: 1/4/8/J9 When IP extension mode enabled: SCH: 1/4/8/J9 When IP extension mode enabled: SCH: 1/4/8/J9 16 SCH: 1/4/8/J9	Bit Rate	32Kbps ~ 6144Kbps Per Channel	Electrical	
record interval record: 10~300 sec Audio Compression G.711A, G.711U, PCM COnstruction BKHz, 16 bit Per Channel BKHz, 12	Record Mode		Power Supply	8CH:DC12V/2A
Audio Sample Rate BKHz, 16 bit Per Channel Audio Bit Rate 64kbps Per Channel Back Mount Tray Rack Mount Tray As 3mmx281mmx56mm (19.0"x11.1"x2.2") Net Weight (without HDD) BCH: 1.2kg (4.2 lb) Resolution When IP extension mode not enabled: 8CH: 1/4/8/9 When IP extension mode enabled: 8CH: 1/4/8/9 When IP extension mode enabled: 8CH: 1/4/8/9/16 Camera title, Time, Video loss, Camera lock, Motion detection, Recording Network Network Network Third-party Support Dahua, Arecont Vision, AXIS, Bosch, Brickcom, Canon, C Plus, Dynacolor, Honeywell, Panasonic, Pelco, Samsung Sanyo, Sony, Videotec, Vivotek, and more Pelp: Psearch (Supports Dahua IP camera, DVR, NVS, etc.) Max. User Access 128 users Certifications Mini 1U, 325mmx255mmx555mm (12.8" x 10" x 2.2") Rack Mount Tray 483mmx281mmx56mm (19.0"x11.1"x2.2") Rack Mount Tray 8CH: 1.2kg (4.2 lb) RCH:	Record Interval			8CH:<10W
Audio Bit Rate 64Kbps Per Channel Rack Mount Tray Net Weight (without HDD) Resolution Resolution Resolution When IP extension mode not enabled: 8CH: 1/4/8/9 When IP extension mode enabled: 8CH: 1/4/8/9 When IP extension mode enabled: 8CH: 1/4/8/9/16 Storage Conditions Camera title, Time, Video loss, Camera lock, Motion detection, Recording Network Network Network Network Function Paylip Search (Supports Dahua IP camera, DVR, NVS, etc.) Max. User Access 128 users Smart Phone Interpretable Add Mount Tray Assimmx281mmx56mm (19.0"x11.1"x2.2") Assimmx281mmx56mm (19.0"x11.1"x2.2") Rack Mount Tray 483mmx281mmx56mm (19.0"x11.1"x2.2") Reck Mount Tray 483mmx281mmx56mm (19.0"x11.1"x2.2") Rething the Weight (without HDD) 8CH: 1.2kg (4.2 lb) Installation Desktop installation Desktop installation Desktop installation Finit - party Support Third-party Support Third-party Support Certifications Certifications Certifications Certifications Certifications Certifications Certifications Certifications	Audio Compression	G.711A, G.711U, PCM	Construction	
Display Rack Mount Tray 483mmx281mmx56mm (19.0"x11.1"x2.2") Net Weight (without HDD) 8CH: 1.2kg (4.2 lb) Resolution HDMI; 3840×2160, 2560×1440, 1920×1080, 1280×1024, 1280×720 VGA: 1920×1080, 1280×1024, 1280×720 Installation Desktop installation Multi-screen Display When IP extension mode not enabled: 8CH: 1/4/8/9 When IP extension mode enabled: 8CH: 1/4/8/9 Operating Conditions -10°C ~ +55°C (+14°F ~ +131°F), 10% ~ 90% RH Storage Conditions -20°C ~ +70°C (-4°F ~ +158°F), 0~ 90% RH Storage Conditions Third-party Support Third-party Support Dahua, Arecont Vision, AXIS, Bosch, Brickcom, Canon,	Audio Sample Rate	8KHz, 16 bit Per Channel	Dimensions	Mini 1U, 325mm×255mm×55mm (12.8" x 10" x 2.2")
Display Interface 1 HDMI, 1 VGA HDMI:3840×2160, 2560×1440, 1920×1080, 1280×1024, 1280×720 VGA: 1920×1080, 1280×1024, 1280×720 When IP extension mode not enabled: 8CH: 1/4/8/9 When IP extension mode enabled: 8CH: 1/4/8/9/16 When IP extension mode enabled: 8CH: 1/4/8/9/16 Operating Conditions Torc +55°C (+14°F ~ +131°F), 10% ~ 90% RH OSD Camera title, Time, Video loss, Camera lock, Motion detection, Recording Network Interface 1 RJ-45 Port (1000M) Network Function Network Function Network Function Max. User Access 128 users Smart Phone IPhone, IPad, Android Network Finction ONNE Fig. 1.3 College forget. ONNE Fig. 1.3 College forget. Network Finction ONNE Fig. 1.3 College forget. O	Audio Bit Rate	64Kbps Per Channel	Rack Mount Trav	483mmx281mmx56mm (19.0"x11.1"x2.2")
Interface I HDMI; 3VGA HDMI;3840×2160, 2560×1440, 1920×1080, 1280×1024, 1280×720 When IP extension mode not enabled: 8CH: 1/4/8/9 When IP extension mode enabled: 8CH: 1/4/8/9/16 When IP extension mode enabled: 8CH: 1/4/8/9/16 Storage Conditions Third-party Support NetWork Interface I RJ-45 Port (1000M) Network Function Max. User Access I 28 users Smart Phone I HDMI;3840×2160, 2560×1440, 1920×1080, 1280×1024, 1280×720 Installation Desktop installation Desktop installation Desktop installation Desktop installation Environmental Operating Conditions -10°C ~ +55°C (+14°F ~ +131°F), 10% ~ 90% RH Storage Conditions -20°C ~ +70°C (-4°F ~ +158°F), 0~ 90% RH Third-party Support Certifications	Display		·	
Resolution 1280×720 VGA: 1920×1080, 1280×1024, 1280×720 When IP extension mode not enabled: 8CH: 1/4/8/9 When IP extension mode enabled: 8CH: 1/4/8/9(16) When IP extension mode enabled: 8CH: 1/4/8/916 Operating Conditions -10°C~+55°C (+14°F~+131°F), 10%~90% RH Storage Conditions -20°C~+70°C (-4°F~+158°F), 0~90% RH Third-party Support Network Interface 1 RJ-45 Port (1000M) Network Function Network Function Third-party Support Dahua, Arecont Vision, AXIS, Bosch, Brickcom, Canon, Canon	Interface	1 HDMI, 1 VGA	(without HDD)	8CH: 1.2kg (4.2 lb)
When IP extension mode not enabled: 8CH: 1/4/8/9 When IP extension mode enabled: 8CH: 1/4/8/9/16 When IP extension mode enabled: 8CH: 1/4/8/9/16 Operating Conditions -10°C~+55°C (+14°F~+131°F), 10%~90% RH Storage Conditions -20°C~+70°C (-4°F~+158°F), 0~90% RH Third-party Support Camera title, Time, Video loss, Camera lock, Motion detection, Recording Network Interface 1 RJ-45 Port (1000M) HTTP, HTTPS, TCP/IP, IPv4/IPv6, Wi-Fi, 3G/4G, UPnP, RTSP, UDP, SMTP, NTP, DHCP, DNS, IP Filter, PPP0E,DDNS, FTP, Alarm Server, P2P,IP Search (Supports Dahua IP camera, DVR, NVS, etc.) Max. User Access Smart Phone iPhone, iPad, Android Intercoparability ONUSE 15-13 CCI Conformant Installation Environmental Operating Conditions -10°C~+55°C (+14°F~+131°F), 10%~90% RH Dahua, Arecont Vision, AXIS, Bosch, Brickcom, Canon,	Resolution		Gross Weight	8CH: 1.9kg (4.2 lb)
Multi-screen Display When IP extension mode enabled: 8CH: 1/4/8/9/16 Storage Conditions -20°C ~ +55°C (+14°F ~ +131°F), 10% ~ 90% RH Storage Conditions -20°C ~ +70°C (-4°F ~ +158°F), 0~ 90% RH Third-party Support Network Interface 1 RJ-45 Port (1000M) HTTP, HTTPS, TCP/IP, IPv4/IPv6, Wi-Fi, 3G/4G, UPnP, RTSP, UDP, SMTP, NTP, DHCP, DNS, IP Filter, PPPoE,DDNS, FTP, Alarm Server, P2P,IP Search (Supports Dahua IP camera, DVR, NVS, etc.) Max. User Access Smart Phone 1 RN-13 CGL Conforment ONVIE 16-13 CGL Conforment ONVIE 16-13 CGL Conforment ONVIE 16-13 CGL Conforment		VGA: 1920×1080, 1280×1024, 1280×720	Installation	Desktop installation
Multi-screen Display When IP extension mode enabled: 8CH: 1/4/8/9/16 Storage Conditions -20°C ~ +70°C (-4°F ~ +131°F), 10% ~ 90% RH Camera title, Time, Video loss, Camera lock, Motion detection, Recording Network Network Interface 1 RJ-45 Port (1000M) HTTP, HTTPS, TCP/IP, IPv4/IPv6, Wi-Fi, 3G/4G, UPnP, RTSP, UDP, SMTP, NTP, DHCP, DNS, IP Filter, PPPoE,DDNS, FTP, Alarm Server, P2P,IP Search (Supports Dahua IP camera, DVR, NVS, etc.) Max. User Access 128 users IPhone, iPad, Android Operating Conditions -10°C ~ +55°C (+14°F ~ +131°F), 10% ~ 90% RH Third-party Support Dahua, Arecont Vision, AXIS, Bosch, Brickcom, Canon, Operating Conditions Certifications Certifications Certifications Certifications Certifications Certifications Certifications	Multi-screen Display	8CH: 1/4/8/9 When IP extension mode enabled:	Environmental	
Storage Conditions -20°C ~ +70°C (-4°F ~ +158°F), 0~ 90% RH Third-party Support Network Interface 1 RJ-45 Port (1000M) HTTP, HTTPS, TCP/IP, IPv4/IPv6, Wi-Fi, 3G/4G, UPnP, RTSP, UDP, SMTP, NTP, DHCP, DNS, IP Filter, PPPoE, DDNS, FTP, Alarm Server, P2P,IP Search (Supports Dahua IP camera, DVR, NVS, etc.) Max. User Access 128 users Smart Phone Storage Conditions -20°C ~ +70°C (-4°F ~ +158°F), 0~ 90% RH Third-party Support Third-party Support Third-party Support Certifications Certifications Certifications Certifications Certifications Certifications Certifications Certifications Certifications			Operating Conditions	-10°C ~ +55°C (+14°F ~ +131°F), 10% ~ 90% RH
Network Interface I RJ-45 Port (1000M) HTTP, HTTPS, TCP/IP, IPv4/IPv6, Wi-Fi, 3G/4G, UPnP, RTSP, UDP, SMTP, NTP, DHCP, DNS, IP Filter, PPPoE,DDNS, FTP, Alarm Server, P2P,IP Search (Supports Dahua IP camera, DVR, NVS, etc.) Max. User Access I28 users IPhone, iPad, Android Interport Dahua, Arecont Vision, AXIS, Bosch, Brickcom, Canon, Can			Storage Conditions	-20°C ~ +70°C (-4°F ~ +158°F) , 0~ 90% RH
Third-party Support Third-party Support Plus, Dynacolor, Honeywell, Panasonic, Pelco, Samsung Sanyo, Sony, Videotec, Vivotek, and more Plus, Dynacolor, Honeywell, Panasonic, Pelco, Samsung Sanyo, Sony, Videotec, Vivotek, and more Certifications Third-party Support Plus, Dynacolor, Honeywell, Panasonic, Pelco, Samsung Sanyo, Sony, Videotec, Vivotek, and more Certifications FCC: Part 15 Subpart B CE: CE-LVD: EN 60950-1/IEC 60950-1 CE-EMC: EN 61000-3-2, EN 61000-3-3, EN 55032, EN 50 Sent Solutions Certifications Certifications Certifications	OSD		Third-party Suppor	t
HTTP, HTTPS, TCP/IP, IPv4/IPv6, Wi-Fi, 3G/4G, UPnP, RTSP, UDP, SMTP, NTP, DHCP, DNS, IP Filter, PPPoE,DDNS, FTP, Alarm Server, P2P,IP Search (Supports Dahua IP camera, DVR, NVS, etc.) Max. User Access 128 users iPhone, iPad, Android Certifications Certifications Certifications Certifications Certifications	Network		Third-party Support	Dahua, Arecont Vision, AXIS, Bosch, Brickcom, Canon, CF Plus, Dynacolor, Honeywell, Panasonic, Pelco, Samsung,
Network Function SMTP, NTP, DHCP, DNS, IP Filter, PPPoE,DDNS, FTP, Alarm Server, P2P,IP Search (Supports Dahua IP camera, DVR, NVS, etc.) Max. User Access 128 users Smart Phone iPhone, iPad, Android Certifications Certifications Certifications Certifications Certifications	Interface	1 RJ-45 Port (1000M)		Saliyo, Sony, Videotec, Vivotek, and more
Max. User Access 128 users CE: CE-LVD: EN 60950-1/IEC 60950-1 Smart Phone iPhone, iPad, Android CE-EMC: EN 61000-3-2, EN 61000-3-3, EN 55032, EN 50024	Network Function	SMTP, NTP, DHCP, DNS, IP Filter, PPPoE, DDNS, FTP, Alarm Server,	Certifications	FCC: Part 15 Subpart B
Smart Phone iPhone, iPad, Android Certifications CE-EMC: EN 61000-3-2, EN 61000-3-3, EN 55032, EN 50	May User Access		CE: CE-LVD: EN 60950-1/IEC 60950-1 Certifications CE-EMC: EN 61000-3-2, EN 61000-3-3, EN 55032 EN 55024	· · · · · · · · · · · · · · · · · · ·
Interoperability ONIVIE 16.13 CCI Conformant	Smart Phone			CE-EMC: EN 61000-3-2, EN 61000-3-3, EN 55032, EN 50
	Interoperability	ONVIE 16.12 CGI Conformant		

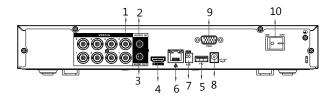


Ordering Information					
Type	Part Number	Description			
	TDHDX8-4K	8 Channel Penta-brid 4K 1U Digital Video Recorder			
8 Channel HD-XVR					
Accessory, optional	NONE	Rack Mount Tray			

Dimensions (mm) 255. lam 243m 243m 243m

Rear Panel

TDHDX8-4K



- 1 VIDEO IN
- 2 AUDIO IN, RCA Connector
- 3 AUDIO OUT, RCA Connector
- 4 HDMI Interface
- 5 USB Interface

- 6 Network Interface
- 7 RS485 Interface
- 8 DC 12V Power Input
- 9 VGA Interface
- 10 Power Switch