

# DH-XVR7108HE-4K-X

# 8 Channel Penta-brid 4K Mini 1U Digital Video Recorder



#### **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. Designed as a collection of intelligent encoding algorithm based on H.265, H.265+ significantly improves encoding efficiency and save bandwidth/storage cost, which fully meet the needs of users facing budget constraints who both require quality and performance.

Besides smart codec, the series supports various advanced functions like IoT and POS functionalities, making the whole system smarter and more convenient which is a perfect choice for mid to large-scale business and projects where both high reliability and flexibility are required.

#### **Functions**

#### Smart H.265+

Smart Codec, H.265+ can reduce up to 80% bit rate and storage requirements compared with H.264 without having to invest in new cameras.

#### HDCVI/AHD/TVI/CVBS Auto-detect

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

#### **8MP** Resolution

The 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 transmission over coaxial cable and UTP, max. 700m for 4K/4MP, 800m for 1080P and 1200m for 720P.

- · H.265+/H.265 dual-stream video compression
- · Supports HDCVI/AHD/TVI/CVBS/IP video inputs
- · Supports 16 channels of IPC access, each channel up to 8MP input; Max 64Mbps Incoming Bandwidth
- · IoT & POS functionalities
- · Smart Search and Intelligent Video System



#### IoT Functionality

HDCVI IoT can achieve multi-dimensional surveillance by integrating sensors with monitoring video, which not only can generate the report for analysis but also prevent risk in advance.

#### **POS Functionality**

This funcion includes POS ticket information overlay and search which can be widely used in retail programs.

#### 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.

#### Spot Output

It is made for a secondary monitor. This allows the operator to view one special monitor that assigned to selected cameras or video inputs from higher security areas.

### Intelligent Video System (IVS)

With built-in intelligent video analytics, the XVR has the ability to detect and analyze moving objects for improved video surveillance. The 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.

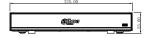


December		ition			
Operating System	System		Trigger Events	Recording, PTZ, Tour, Video Push, Email, FTP, Snapshot Buzzer and Screen Tips	
Alamingus   B   Rely Output   3			Video Detection		
Analog Camera Input   S Channel, BNC		Lilibeaded LiNOX	Alarm input	8	
Horo   Camera   246, 546, 546, 446, 1000   25/30/pp.   270   290/60169.   270   270   290/60169.   270   270   290/60169.   270   270   290/60169.   270   270   290/60169.   270   270   290/60169.   270   270   290/60169.   270   270   290/60169.   270   270   290/60169.   270   270   290/60169.   270   270   290/60169.   270   270   290/60169.   270   270   290/60169.   270   270   290/60169.   270   270   290/60169.   270   270   290/60169.   270   270   290/60169.   270   270   290/60169.   270	Video and Audio		Relay Output	3	
Playback   14/9	Analog Camera Input	8 Channel, BNC	Playback and Back	кир	
Search Mode   Play, Paus, 5to, Rewind, Fast play, Slow Play, Next File   Playback Function   Play, Paus, 5to, Rewind, Fast play, Slow Play, Next File   Playback Function   Play, Paus, 5to, Rewind, Fast play, Slow Play, Next File   Playback Function   Play, Paus, 5to, Rewind, Fast play, Slow Play, Next File   Playback Function   Play, Paus, 5to, Rewind, Fast play, Slow Play, Next File   Playback Function	HDCVI Camera		•		
TVI Camera   SMP, 4MP, 3MM, 1080PeD/S/30, 720PeD/S/30PeC	AHD Camera	5MP, 4MP, 3MP, 1080P@25/30, 720P@25/30fps	Search Mode		
Plyback Function   Plyback Fun	TVI Camera	5MP, 4MP, 3MP, 1080P@25/30, 720P@25/30fps			
P. Camera injust   Set Channel, each channel up to SMP	CVBS Camera	PAL/NTSC	Playback Function	Previous File, Next Camera, Previous Camera, Full Scre	
Storage	IP Camera Input	8+8 Channel, each channel up to 8MP			
Internal HDD	Audio In/Out	8 Channel Input, 1 Channel Output, RCA	Backup Mode	USB Device/Network	
Record Rate	Two-way Talk	Reuse audio in/out, RCA	Storage		
Resolution  4K, 6MP, 5MP, 4MP, 3MP, 1080P, 720P, 960H, D1, CIF, QCIF  Main stream: 4K["-15fps], 6MP("-20fps), 5MP("-25fps]; 4MP/3MP/1080P/720P/950H/012/CIF/QCIF ["-25/30fps]) Sub stream: 4K["-15fps], 6MP("-20fps), 5MP("-25fps]; 4MP/3MP/1080P/720P/950H/012/CIF/QCIF ["-25/30fps]) Sub stream: 4K["-15fps], 6MP("-20fps], 5MP("-25fps]; 4MP/3MP/1080P/720P/950H/012/CIF/QCIF ["-25/30fps]) Sub stream: 4K["-15fps], 6MP("-20fps], 5MP("-25fps]; AMP/3MP/1080P/720P/950H/012/CIF/QCIF ["-25/30fps]) Sub stream: 4K["-15fps], 6MP("-20fps], 5MP("-25fps]; AMP/3MP/1080P/720P/950H/012/CIF/QCIF ["-25/30fps]) Sub stream: 4K["-15fps], 6MP("-25fps], 5MP("-25fps]; AMP/3MP/1080P/720P/950H/012/CIF/QCIF ["-25/30fps]] Sub stream: 4K["-15fps], 6MP("-25fps], 5MP("-25fps]; AMP/3MP/1080P/720P/950H/012/CIF/QCIF ["-25/30fps]] Sub stream: 4K["-15fps], 6MP("-25fps], 5MP("-25fps], 5MP("-25fps]; AMP/3MP/1080P/720P/950H/012/CIF/QCIF ["-25/30fps]] Sub stream: 4K["-15fps], 6MP("-25fps], 5MP("-25fps], 5MP("-25fps]	Recording		Internal HDD	1 SATA Port, up to 10TB capacity for each disk	
Main stream: AK(1=15fps); 6MP(1=20fps); 5MP(1=20fps); 5M	Compression	H.265+/H.265/H.264+/H.264	eSATA	N/A	
Main stream: 44(1"-15fps): 6MP(1"-20fps): 5MP(1"-25fps): 4MP/3MP/1080P/720P/960H/D1/CIF/QCIF (1"-25/30fps)	Resolution	4K, 6MP, 5MP, 4MP, 3MP, 1080P, 720P, 960H, D1, CIF, QCIF	Auxiliary Interface		
RS232   N/A			USB	2 USB Ports (1 USB 2.0 , 1 USB 3.0)	
Sub sterams-60H[^15fps]; D1/CIF/QCIF[12-25/30fps]  Bit Rate  1Kbps ~ 8192kbps Per Channel  Record Mode  Manual, Schedule (General, Continuous), MD (Video detection: Motion Detection, Video Loss, Tampering), Alarm, Stop Power Consumption  1° 60 min (default: 60 min), Pre-record: 1° 30 sec, Post-record: 10° 300 sec Post Construction  Display  Interface  1 HDMI, 1 VGA  HDMI: 3840×2160, 2560×1440, 1920×1080, 1280×1024, 1280×220 VGA: 1920×1080, 1280×1024, 1280×220 VGA: 1920×1080, 1280×1024, 1280×220  Multi-screen Display  When IP extension mode enabled: 1/4/8/9 When IP extension mode enabled: 1/4/8/9/16 OSD  Camera title, Time, Video loss, Camera lock, Motion detection, Recording  Network  Interface  1 RJ-45 Port (1000M)  HTTP, HTTPS, TCP/IP, IPv4/IPv6, UPnP, RTSP, UDP, SMTP, NTP, DHCP, DNS, IP Filter, PPP6L, DNS, FTP, Alarm Server, P2P, IP Search (Support Dahua IP camera, DVR, NVS, etc.)  Max. User Access  1 28 users  Smart Phone  Interoperability  ONVIF 16.12, CGI Conformant  Record Mode  Interoperability  Power Consumption  Clettifications  Electrical  Power Supply DC12V/2A Power Consumption  Ct-EMC Support Continued (1500)  DC12V/2A Power Consumption  Ct-EMC Support Continued (1500)  Also (1500) Also			RS232	N/A	
Manual, Schedule (General, Continuous), MD (Video detection: Motion Detection, Video Loss, Tampering), Alarm, Stop  Record Interval  1~60 min (default: 60 min), Pre-record: 1~30 sec, Post-record: 10~300 sec  Display  Dimensions  Mini 1U, 325mm×255mm×55mm (12.8" x 10" x 2.2")  Net Weight  1.45kg (3.2lb) (without HDD)  Gross Weight  1.820x720  Multi-screen Display  When IP extension mode not enabled: 1/4/8/9 When IP extension mode enabled: 1/4/8/9 When IP extension mode enabled: 1/4/8/9/16  OSD  Camera title, Time, Video loss, Camera lock, Motion detection, Recording  Network  Interface  1 RJ-45 Port (1000M)  HTTP, HTTPS, TCP/IP, IPv4/IPv6, UPnP, RTSP, UDP, SMTP, NTP, DHCP, DNS, IP, Filter, PPP06, IDNS, ITP, Alarm Server, P2P, IP Search (Support Dahua IP camera, DVR, NVS, etc.)  Certifications  Power Consumption  Construction  Dimensions  Mini 1U, 325mm×255mm×55mm (12.8" x 10" x 2.2")  Alaba (3.4 lb)  1.45kg (3.2lb) (without HDD)  Gross Weight  1.45kg (3.2lb) (without HDD)  Desktop installation  Desktop installation  Desktop installation  Environmental  Operating Conditions  Storage Conditions  -10°C ~ +55°C (+14°F ~ +131°F), 0~ 90% RH  Third-party Support  Third-party Support  Third-party Support  Third-party Support  Certifications  FCC: Part 15 Subpart B  FCC: Part 15 Subpart B  FCC: Part 15 Subpart B  Certifications  FCC: FINE: EN 61000-3-3, EN 55032, EN	Record Rate	Sub steram:960H(1~15fps);	RS485	1 Port, for PTZ Control	
Manual, Schedule (General, Continuous), M0 (Video detection: Motion Detection, Video Loss, Tampering), Alarm, Stop  Record Interval  1 ~ 60 min (default: 60 min), Pre-record: 1 ~ 30 sec, Post-record: 10 ~ 300 sec  Display  Dimensions  Mini 1U, 325mm×255mm×55mm (12.8" x 10" x 2.2")  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: 1/4/8/9 When IP extension mode not enabled: 1/4/8/9/16  OSD  Camera title, Time, Video loss, Camera lock, Motion detection, Recording  Network  Interface  1 RJ-45 Port (1000M)  Network Function  Phicp, DNS, IP Filter, PPOE, DDNS, FTP, Alarm Server, P2P, IP Search (Support Dahua IP camera, DVR, NVS, etc.)  Max. User Access  128 users  Certifications  NOVIF 16.12, CGI Conformant  NOVIF 16.12, CGI Conformant  Novige Celection: Note of the post-record of the post-r	Bit Rate	1Kbps ~ 8192Kbps Per Channel	Electrical		
Motion Detection, Video Loss, Tampering), Alarm, Stop  Power Consumption  1 **60 min (default: 60 min), Pre-record: 1 **30 sec, Post-record: 10 **30 sec  Display  Interface  1 HDMI, 1 VGA  HDMI:3840v2160, 2560v1440, 1920v1080, 1280v1024, 1280v720  VGA: 1920v1080, 1280v1024, 1280v720  Multi-screen Display  When IP extension mode not enabled: 1/4/8/9 When IP extension mode enabled: 1/4/8/9/16  OSD  Camera title, Time, Video loss, Camera lock, Motion detection, Recording  NetWork  Interface  1 RJ-45 Port (1000M)  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 (Support Dahua IP camera, DVR, NVS, etc.)  Max. User Access  128 users  Smart Phone  iPhone, iPad, Android  Interoperability  ONUF 16.12, CGI Conformant  Certifications  Construction  Construction  Mini 1U, 325mm×255mm×255mm (12.8" x 10" x 2.2")  Mini 1U, 325mm×255mm×255mm (12.8" x 10" x 2.2")  Mini 1U, 325mm×255mm×555mm (12.8" x 10" x 2.2")  Mini 1U, 325mm×255mm×255mm (12.8" x 10" x 2.2")  Met Weight  1.45kg (3.2lb) (without HDD)  2kg (4.4lb)  2kg (4.4lb)	December 1	Manual, Schedule (General, Continuous), MD (Video detection:	Power Supply	DC12V/2A	
Display  Dimensions  Mini 1U, 325mmx255mmx55mm (12.8" x 10" x 2.2")  Net Weight  1.45kg (3.2lb) (without HDD)  Resolution  HDMI:3840×2160, 2560×1440, 1920×1080, 1280×1024, 1280×720  VGA: 1920×1080, 1280×1024, 1280×720  VGA: 1920×1080, 1280×1024, 1280×720  Multi-screen Display  When IP extension mode not enabled: 1/4/8/9 When IP extension mode enabled: 1/4/8/9/16  OSD  Camera title, Time, Video loss, Camera lock, Motion detection, Recording  Network  Interface  1 RJ-45 Port (1000M)  HTTP, HTTPS, TCP/IP, IPv4/IPv6, UPnP, RTSP, UDP, SMTP, NTP, DHCP, DNS, IP Filter, PPP0E, DDNS, FTP, Alarm Server, P2P, IP Search (Support Dahua IP camera, DVR, NVS, etc.)  Max. User Access  128 users  Certifications  Certifications  Certifications  Certifications  Mini 1U, 325mmx255mmx55mm (12.8" x 10" x 2.2")  Mini 1U, 325mmx255mmx55mm (12.8" x 10" x 2.2")  Net Weight  1.45kg (3.2lb) (without HDD)  1.45kg (3.2lb) (	kecora Mode	Motion Detection, Video Loss, Tampering), Alarm, Stop	Power Consumption	<15W (Without HDD)	
Interface 1 HDMI, 1 VGA  Resolution HDMI:3840×2160, 2560×1440, 1920×1080, 1280×1024, 1280×720	Record Interval		Construction		
HDMI:3840×2160, 2560×1440, 1920×1080, 1280×1024, 1280×720 VGA: 1920×1080, 1280×1024, 1280×720 When IP extension mode not enabled: 1/4/8/9 When IP extension mode enabled: 1/4/8/9/16  OSD  Camera title, Time, Video loss, Camera lock, Motion detection, Recording  Network  Interface  1 RJ-45 Port (1000M)  HTTP, HTTPS, TCP/IP, IPv4/IPv6, UPnP, RTSP, UDP, SMTP, NTP, DHCP, DNS, IP Filter, PPPoE,DDNS, FTP, Alarm Server, P2P, IP Search (Support Dahua IP camera, DVR, NVS, etc.)  Max. User Access  Smart Phone  iPhone, iPad, Android  Interoperability  ONVIF 16.12, CGI Conformant  Gross Weight  2kg (4.4lb)  Installation  Desktop installation  Desktop installation  Environmental  Operating Conditions  -10°C ~ +55°C (+14°F ~ +131°F), 0~ 90% RH  For a string Conditions  -20°C ~ +70°C (-4°F ~ +158°F), 0~ 90% RH  Third-party Support  Third-party Support  Certifications  FCC: Part 15 Subpart B  CE: CE-LVD: EN 60950-1/IEC 60950-1  CE-EMC: EN 61000-3-2, EN 61000-3-2, EN 61000-3-2, EN 61000-3-2, EN 61000-3-2, EN 61000-3-3, EN 55032, EN	Display		Dimensions	Mini 1U, 325mm×255mm×55mm (12.8" x 10" x 2.2")	
Resolution  1280×720 VGA: 1920×1080, 1280×1024, 1280×720  Multi-screen Display  When IP extension mode not enabled: 1/4/8/9 When IP extension mode not enabled: 1/4/8/9/16  OSD  Camera title, Time, Video loss, Camera lock, Motion detection, Recording  Network  Interface  1 RJ-45 Port (1000M)  HTTP, HTTPS, TCP/IP, IPv4/IPv6, UPnP, RTSP, UDP, SMTP, NTP, DHCP, DNS, IP Filter, PPPoE,DDNS, FTP, Alarm Server,P2P, IP Search (Support Dahua IP camera, DVR, NVS, etc.)  Max. User Access  128 users  Interoperability  ONVIF 16.12, CGI Conformant  1 Certifications  Installation  Desktop installation  Plov*C ~ +55°C (+14°F ~ +131°F), 0~ 90% RH  Third-party Support  Third-party Support  Third-party Support  Certifications  Certifications	Interface	1 HDMI, 1 VGA	Net Weight	1.45kg (3.2lb) (without HDD)	
Well interpretability  VGA: 1920×1080, 1280×1024, 1280×720  Installation  Desktop installation  Descrete installation  Des	0 1	1280×720	Gross Weight	2kg (4.4lb)	
When IP extension mode enabled: 1/4/8/9/16  OSD  Camera title, Time, Video loss, Camera lock, Motion detection, Recording  Network  Interface  1 RJ-45 Port (1000M)  HTTP, HTTPS, TCP/IP, IPv4/IPv6, UPnP, RTSP, UDP, SMTP, NTP, DHCP, DNS, IP Filter, PPPoE,DDNS, FTP, Alarm Server, P2P, IP Search (Support Dahua IP camera, DVR, NVS, etc.)  Max. User Access  128 users  Smart Phone  iPhone, iPad, Android  Interoperability  When IP extension mode enabled: 1/4/8/9/16  Operating Conditions  -10°C ~+55°C (+14°F ~+131°F), 0~ 90% RH  Storage Conditions  -20°C ~+70°C (-4°F ~+158°F), 0~ 90% RH  Third-party Support  Third-party Support  Certifications  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	Resolution		Installation	Desktop installation	
Network  Interface 1 RJ-45 Port (1000M)  Network Function PhCP, DNS, IP Filter, PPPoE,DDNS, FTP, Alarm Server,P2P, IP Search (Support Dahua IP camera, DVR, NVS, etc.)  Max. User Access 128 users  Smart Phone iPhone, iPad, Android  Interoperability ONVIF 16.12, CGI Conformant  Storage Conditions -20°C ~ +70°C (-4°F ~ +158°F), 0~ 90% RH  Third-party Support  Third-party Support  Third-party Support  Third-party Support  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	Multi-screen Display		Environmental		
Storage Conditions  -20°C ~ +70°C (-4°F ~ +158°F), 0~ 90% RH  Third-party Support  Third-part	OSD		Operating Conditions	-10°C ~ +55°C (+14°F ~ +131°F), 0~ 90% RH	
Interface 1 RJ-45 Port (1000M)  HTTP, HTTPS, TCP/IP, IPv4/IPv6, UPnP, RTSP, UDP, SMTP, NTP, DHCP, DNS, IP Filter, PPPoE,DDNS, FTP, Alarm Server,P2P, IP Search (Support Dahua IP camera, DVR, NVS, etc.)  Max. User Access 128 users  Smart Phone iPhone, iPad, Android  Interoperability ONVIF 16.12, CGI Conformant  Third-party Support Phua, Arecont Vision, AXIS, Bosch, Brickcom, Canon, Plus, Dynacolor, Honeywell, Panasonic, Pelco, Samsun 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	Network		Storage Conditions	-20°C ~ +70°C (-4°F ~ +158°F) , 0~ 90% RH	
HTTP, HTTPS, TCP/IP, IPv4/IPv6, UPnP, RTSP, UDP, SMTP, NTP, DHCP, DNS, IP Filter, PPPOE, DDNS, FTP, Alarm Server, P2P, IP Search (Support Dahua IP camera, DVR, NVS, etc.)  Max. User Access  128 users  Smart Phone  iPhone, iPad, Android  Interoperability  ONVIF 16.12, CGI Conformant  Third-party Support  Third-party Support  Plus, Dynacolor, Honeywell, Panasonic, Pelco, Samsun 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	Interface	1 RJ-45 Port (1000M)	Third-party Suppo	ort	
Max. User Access 128 users  Smart Phone iPhone, iPad, Android  Interoperability ONVIF 16.12, CGI Conformant 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	Network Function	DHCP, DNS, IP Filter, PPPoE,DDNS, FTP, Alarm Server,P2P, IP	Third-party Support	Dahua, Arecont Vision, AXIS, Bosch, Brickcom, Canon, Plus, Dynacolor, Honeywell, Panasonic, Pelco, Samsun, Sanyo, Sony, Videotec, Vivotek, and more	
Smart Phone iPhone, iPad, Android  CE: CE-LVD: EN 60950-1/IEC 60950-1  Interoperability  ONVIF 16.12, CGI Conformant  Certifications  CE: CE-LVD: EN 60950-1/IEC 60950-1  CE-EMC: EN 61000-3-2, EN 61000-3-3, EN 55032, EN	Max. User Access	128 users	Certifications	Certifications	
Interoperability ONVIF 16.12, CGI Conformant Certifications CE-EMC: EN 61000-3-2, EN 61000-3-3, EN 55032, EN	Smart Phone	iPhone, iPad, Android		FCC: Part 15 Subpart B	
	Interoperability	ONVIF 16.12, CGI Conformant	Certifications		

# Pro Series | DH-XVR7108HE-4K-X

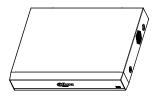
Ordering Information			
Туре	Part Number	Description	
8 Channel XVR	DH-XVR7108HE-4K-X	8 Channel Penta-brid 4K Mini 1U Digital Video Recorder	

## Dimensions (mm)



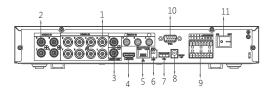






#### **Rear Panel**

DH-XVR7108HE-4K-X



- 1 VIDEO IN 7 USB port
- 2 AUDIO IN, RCA Connector 8 DC12V Power Input
- 3 AUDIO OUT, RCA Connector 9 ALARM IN / OUT
- 4 HDMI port 10 VGA port
- 5 Network port 11 Power Switch
- 6 RS485 port

