

DH-XVR7108/16HE-4KL-X

8/16 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 90% 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.

- \cdot H.265+/H.265 dual-stream video compression
- · Supports HDCVI/AHD/TVI/CVBS/IP video inputs
- Supports 16/32 channels of IPC access, each channel up to 8MP input; Max 64/128Mbps Incoming Bandwidth
- · IoT & POS functionalities
- \cdot 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 function 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.



Pro Series | DH-XVR7108/16HE-4KL-X

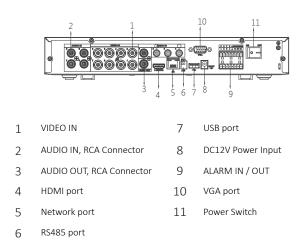
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Record Mode Manual, secure (seneral, continuous, MU (value) detection: record interval Power Supply RCH: DC12V/2A 1GCH: DC12V/3A Record Interval 1~60 min (default: 60 min), Pre-record: 1~30 sec, Post- record: 10~30 sec Power Supply RCH: DC12V/2A 1GCH: DC12V/3A Audio Compression AAC(only for the 1st channel), G.711A, G.711U, PCM Power Consumption (without HDD) RCH: DC12V/2A 1GCH: 220W Audio Bit Rate 64Kbps Per Channel Construction RCH: DC12V/2A 1GCH: 220W Display Multi JU 325mmx255mm/12.8*x 10* x 2.2*) Interface 1 HDMI, 1 VGA Multi JU 325mmx255mm/12.8*x 10* x 2.2*) Net Weight (without HDD) ScH: 14/8 (3.1 lb) 1260×700 1260×700 Gross Weight 1260×700 VGA: 1320×1204, 1320×1206, 1280×1204, 1320×1204, 1280×1204 Multi-screen Display ScH: 14/8/9/16/25 Multi-screen Display ScH: 14/8/9/16/25 Network Sch: 14/8/9/16/25 Oso Remert uits, Time, Video loss, Camera lock, Motion detection, Sch: 14/8/9/16/25 Network Third-party Support Interdace 18.45 Port (1000M) Network Storage Conditions Network Storage Conditions Network Function Storage Conditions Network Function Storage Conditions Network Function Stora	Bit Rate		Electrical		
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Audio compression AAC(anly for the 1st channel), G.711A, G.711U, PCM (without HDD) 16CH: 20W Audio Sample Rate 8KHz, 16 bit Per Channel Construction Audio Bit Rate 64Kbps Per Channel Dimensions Mni 1U, 325mmx255mmx152mm(12.8" x 10" x 2.2") Display Net Weight (without HDD) Rel-1.13kg (2.9 lb) 16CH: 14/kg (3.1 lb) Rel-1.13kg (2.9 lb) 16CH: 14/kg (3.1 lb) Resolution HDM,1 VGA Gross Weight 1280×220 8(4.4lb) Multi-screen Display When IP extension mode not enabled: Recht 14/kg/9/16 (without HDD) Resolutions 10°C ~ +55°C (+14″F ~ +131°F), 10% ~ 90% RH Sch: 14/kg/9/16 Sch: 14/kg/9/16 16CH: 14/kg/9/16 10°C ~ +55°C (+14″F ~ +131°F), 10% ~ 90% RH Sch: 14/kg/9/16 Sch: 14/kg/9/16 10°C ~ +55°C (+14″F ~ +131°F), 10% ~ 90% RH Sch: 14/kg/9/16/25 Constructions 10°C ~ +55°C (+14″F ~ +131°F), 10% ~ 90% RH Sch: 14/kg/9/16/25 Storage Conditions 10°C ~ +55°C (+14″F ~ +131°F), 10% ~ 90% RH Sch: 14/kg/9/16/25 Storage Conditions 10°C ~ +55°C (+14″F ~ +131°F), 10% ~ 90% RH Sch: 14/kg/9/16/25 Storage Conditions 10°C ~ +55°C (+14″F ~ +131°F), 10% ~ 90% RH Sch: 14/kg/9/16/25 Storage Conditions 10°C ~ +55°C (+14″F ~ +131°F), 10% ~ 90% RH Sch: 14/kg/9/16/25 Storage Conditions 10°C ~ +55°C (+14″F ~ +150°F), 0°C % RH	Record Interval		Power Consumption		
Audio Bit Rate 64kbps Per Channel Construction Display Jimensions Jimensions Muli 1U, 325mmx55mm(12.8" x10" x 2.7") Interface 1 HDMI, 1 VGA Resolution Gross Weight (without HDD) Ref 1.3kg (2.9 lb) 16CH: 1/4kg (3.1 lb) Resolution When IP extension mode not enabled: 80CH: 1/4kg/9/16 VGA: 1920x1080, 1280x1024, 1280x720 Gross Weight Installation 2kg (4.4lb) Multi-screen Display When IP extension mode not enabled: 80CH: 1/4kg/9/16 SCH: 1/4kg/9	Audio Compression	AAC(only for the 1st channel), G.711A, G.711U, PCM			
Display Dimensions Dimensions Net Weight (without HDD) 8CH: 13kg (2.9 lb) 16CH: 14kg (3.1 lb) 8CH: 13kg (2.9 lb) 16CH: 14kg (3.1 lb) Resolution 1BDMI, 1 VGA Gross Weight 8CH: 13kg (2.9 lb) 16CH: 14kg (3.1 lb) Multi-screen Display When P extension mode not enabled: 8CH: 14/8/9/16 16CH: 14/8/9/16 17CH: 150000-10 18CH: 14/8/9/16 18CH: 14/8/16 18CH: 14/8/9/16 18CH: 14/8/9/16 18CH: 14/8/9/16 18CH: 14/8/9/16 18CH: 14/8/16 18CH: 14/8/16 18CH: 14/8/16 18CH: 14/8/16 18CH: 14/8/16 18CH: 14/8/16 18CH: 14/8/16 18CH: 14/8/16 18CH: 14/8/	Audio Sample Rate	8KHz, 16 bit Per Channel	Construction	Construction	
Interface1 HDMI, 1 VGANet Weight (without HDD)8 CH: 1.3 kg (2.3 lb) 16 CH: 1 4 kg (3.1 lb)Resolution1280x720 VGA: 1920x1080, 1280x1024, 1280x720Gross Weight2 kg (4.4lb)Multi-screen DisplayWhen IP extension mode not enabled: 8 CH: 1/4/8/9/16 USA: 1/4/8/9/16 16 CH: 1/4/8/9/16 /25Gross Weight2 kg (4.4lb)Multi-screen DisplayWhen IP extension mode enabled: 8 CH: 1/4/8/9/16/25Third-party SupportDesktop installationOsDCamera title, Time, Video loss, Camera lock, Motion detection Recording-0°C ~ +55°C (+14°F ~ +131°F), 10% ~ 90% RHNetworkInterface1 RI-45 Port (1000M)Third-party SupportNetworkThird-party SupportDahua, Arecont Vision, AXIS, Bosch, Brickcom, Canon, CP Pus, Dynacolor, Honeywell, Panasonic, Pelco, Samsung, Samon, Sony, Videotec, Vivotek, and moreNetwork Function11 TP, HTTPS, TCP/IP, IPV4/IPV6, WI-FI, 3G/AG, UPPP, RTSP, UDP, MTP, NTP, DHCP, DNS, IP Filter, PPPo6, DDNS, FTP, Alarm Server, PUP, Psarch (Supports Dahua IP camera, DVR, NVS, etc.)CertificationsMax. User Access12 usersCertificationsEcc. Purp IS Subport 18 CE: CH: UD: IS 60950-11 CE: MI 15000-3-2, IN 61000-3-3, IS N55032, EN Si030, EN 55032, E	Audio Bit Rate	64Kbps Per Channel	Dimensions	Mini 1U, 325mm×255mm×55mm (12.8" x 10" x 2.2")	
Interface Index Index Index Resolution HDMI:3840x2160, 2560x1440, 1920x1080, 1280x1024, 1280x720 Gross Weight 2kg (4.4lb) Multi-screen Display Mem P extension mode not enabled: 8CH: 1/4/8/9/16 16CH: 1/4/8/9/16 16CH: 1/4/8/9/16/25 First and the f	Display				
Resolution 1280×720 VGA: 1920×1080, 1280×1024, 1280×720 Installation Desktop installation Multi-screen Display Ken: 1/4/8/9/16 SCH: 1/4/8/9/16 SCH: 1/4/8/9/16 SCH: 1/4/8/9/16 SCH: 1/4/8/9/16 SCH: 1/4/8/9/16/SC Furvironmental Furvironmental Operating Conditions -0°C ~ +55°C (+14°F ~ +131°F), 10% ~ 90% RH Operating Conditions -0°C ~ +55°C (+14°F ~ +131°F), 10% ~ 90% RH Sob Camera title, Time, Video loss, Camera lock, Motion detection Recording Third-party Support -0°C ~ +70°C (-4°F ~ +158°F), 0° 90% RH Network IRJ-45 Port (1000M) Third-party Support Phird-party Support Network Function 1RJ-45 Port (1000M), NJF, 13/G/GA, UPP, RTSP, UPP, SMTP, NTP, DHCP, DNS, IP Filter, PPPOE, DDNS, FTP, Alarm Server, P2PJ, PSaerch (Supports Dahua IP camera, DVR, NS, etc.) Certifications Max. User Access 128 users Certifications FC: Part 15 Subpart B Max. User Access 128 users Certifications CE: CE-LVD: EN 60950-1/EC 60950-1 CE: CE-LVD: EN 60050-3.2, EN 51002-3.3, EN 55032, EN Interoperability ONVIF 16.12, CGI Conformant ONVIF 16.12, CGI Conformant CE: CE-LVD: EN 60050-3.2, EN 51002-3.3, EN 55032, EN	Interface	1 HDMI, 1 VGA	(without HDD)	16CH: 1.4kg (3.1 lb)	
Multi-screen Display When IP extension mode not enabled: BCH: 1/4/8/9/16 When IP extension mode enabled: BCH: 1/4/8/9/16 Multi-Screen Display Environmental SCH: 1/4/8/9/16 Multi-Screen Display Gerating Conditions 10°C ~+55°C (+14°F ~ +131°F,) 10% ~ 90% RH SCH: 1/4/8/9/16/25 Storage Conditions 20°C ~+70°C (-4°F ~ +158°F,) 0~ 90% RH SDD Camera title, Time, Video loss, Camera lock, Motion detection Recording Third-party Support Dahua, Arecont Vision, AXIS, Bosch, Brickcom, Canon, CP Jus, Dynacolor, Honeywell, Panasonic, Pelco, Samsung, Sano, Sony, Videotec, Vivotek, and more Network Intr-fhartps, TCP//P, IPV4/IPV6, Wi-Fi, 3G/4G, UPPP, RTSP, UPPP, TPP, HTTP, DHCP, DNS, IP Filter, PPPOE, DDNS, FTP, Alarm Server P2P, IP Search (Supports Dahua IP camera, DVR, NS, etc.) Certifications Science Justice Conditions and Partice Conditions Max. User Access 128 users Isa users Ecrifications Science Justice Conditions and Partice Conditions and Partice Conditions Interoperability ONVIF 16.12, CGI Conformant Onvironmental Partice Conditions FC: Part 15 Subpart B	Resolution	1280×720 VGA: 1920×1080, 1280×1024, 1280×720	Gross Weight	2kg (4.4lb)	
BCH: 1/4/8/9 Environmental Multi-screen Display SCH: 1/4/8/9/16 Operating Conditions -10°C~+55°C (+14°F~+131°F), 10%~90% RH Multi-screen Display SCH: 1/4/8/9/16 Storage Conditions -20°C~+70°C (-4°F~+158°F), 0~90% RH SOD Camera title, Time, Video loss, Camera lock, Motion detection, Recording Third-party Support Third-party Support Network Third-party Support Third-party Support Bahua, Arecont Vision, AXIS, Bosch, Brickcom, Canon, CP Plus, Dynacolor, Honeywell, Panasonic, Pelco, Samsung, Sanyo, Sony, Videotec, Vivotek, and more Network INTP, HTTPS, TCP/IP, IPV4/IPv6, WI-Fi, 3G/4G, UPP, RTSP, UDP, Plus, Pynacolor, Honeywell, Panasonic, Pelco, Samsung, Sanyo, Sony, Videotec, Vivotek, and more Certifications Max. User Access I28 users Certifications Ec: CE-IVD: EN 60950-1/ICE 60950-1 CE: CE-IVD: EN 60950-1/ICE 60950-1 CE: CE-IVD: EN 60950-1/ICE 60950-1 CE: EE/IVD: EN 60950-1/ICE 60950-1 CE: EE/IVD: EN 60950-32, EN 55032, EN 550303, EN 55032, EN 550332, EN 55032, EN 55032, EN 55032, EN 55032, EN 55032			Installation	Desktop installation	
Multi-screen Display When IP extension mode enabled: 8CH: 1/4/8/9/16 16CH: 1/4/8/9/16/25 Operating Conditions -10°C ~ +55°C (+14°F ~ +131°F), 10% ~ 90% RH OSD Camera title, Time, Video loss, Camera lock, Motion detection, Recording Third-party Support Third-party Support Network 1 RJ-45 Port (1000M) Third-party Support Dahua, Arecont Vision, AXIS, Bosch, Brickcom, Canon, CP Plus, Dynacolor, Honeywell, Panasonic, Pelco, Samsung, Sanyo, Sony, Videotec, Vivotek, and more Network Function 1 RJ-45 Port (1000M) Certifications Certifications Max. User Access 1 28 users Certifications FC: Part 15 Subpart B Max. User Access IPhone, iPad, Android Certifications Certifications Interoperability ONVIF 16.12, CGI Conformant Certifications Certifications	Multi-screen Display	8CH: 1/4/8/9 16CH: 1/4/8/9/16 When IP extension mode enabled: 8CH: 1/4/8/9/16	Environmental		
Index Index Storage Conditions -20°C ~ +70°C (-4°F ~ +158°F), 0° 90% RH OSD Camera title, Time, Video loss, Camera lock, Motion detection, Recording Third-party Support Third-party Support Network Interface 1 RJ-45 Port (1000M) Third-party Support Dahua, Arecont Vision, AXIS, Bosch, Brickcom, Canon, CP Plus, Dynacolor, Honeywell, Panasonic, Pelco, Samsung, Sanyo, Sony, Videotec, Vivotek, and more Network Function HTTP, HTTPS, TCP/IP, IPV4/IPV6, Wi-Fi, 3G/4G, UPPR, RTSP, UDP, SMTP, NTP, DHCP, DNS, IP Filter, PPPoE, DDNS, FTP, Alarm Server, P2P, IP Search (Supports Dahua IP camera, DVR, NVS, etc.) Certifications Max. User Access 128 users Iz8 users Ecc E-LVD: EN 60950-1/IEC 60950-1 CE-EtWD: EN 61000-3-2, EN 61000-3-3, EN 55032, EN S1030, EN 55024 Interoperability ONVIF 16.12, CGI Conformant ONVIF 16.12, CGI conformant Ecc E-LVD: EN 60950-1/IEC 60950-1 CE-EtWD: EN 61000-3-2, EN 61000-3-3, EN 55032, EN S1030, EN 55024			Operating Conditions	-10°C ~ +55°C (+14°F ~ +131°F), 10% ~ 90% RH	
OSD Recording Initid-parity Support Network Interface 1 RI-45 Port (1000M) Network Function MTTP, 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 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	
Interface I RJ-45 Port (1000M) Imid-party Support Plus, Dynacolor, Honeywell, Panasonic, Pelco, Samsung, Sanyo, Sony, Videotec, Vivotek, and more Network Function HTTP, HTTPS, TCP/IP, IPV4/IPV6, Wi-Fi, 3G/4G, UPNP, RTSP, UPP, SMTP, DTP, DHCP, DNS, IP Filter, PPPoE, DDNS, FTP, Alarm Server, P2P,IP Search (Supports Dahua IP camera, DVR, NVS, etc.) Certifications Max. User Access 128 users FCC: Part 15 Subpart B Smart Phone iPhone, iPad, Android Certifications Interoperability ONVIF 16.12, CGI Conformant ONVIF 16.12, CGI Conformant	OSD		Third-party Suppor	t	
Interface 1 RJ-45 Port (1000M) Sanyo, Sony, Videotec, Vivotek, and more Network Function 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.) Certifications Max. User Access 128 users FCC: Part 15 Subpart B Smart Phone iPhone, iPad, Android Certifications Interoperability ONVIF 16.12, CGI Conformant ONVIF 16.12, CGI Conformant	Network		Third parts for		
Network Function SMTP, NTP, DHCP, DNS, IP Filter, PPPoE,DDNS, FTP, Alarm Server, P2P,IP Search (Supports Dahua IP camera, DVR, NVS, etc.) FCC: Part 15 Subpart B Max. User Access 128 users Ecrifications Smart Phone iPhone, iPad, Android Certifications Interoperability ONVIF 16.12, CGI Conformant Certifications	Interface	1 RJ-45 Port (1000M)	Third-party Support		
Max. User Access 128 users Smart Phone iPhone, iPad, Android Interoperability ONVIF 16.12, CGI Conformant	Network Function	SMTP, NTP, DHCP, DNS, IP Filter, PPPoE, DDNS, FTP, Alarm Server,	Certifications	ECC: Part 15 Subpart P	
Smart Phone iPhone, iPad, Android Certifications CE-EMC: EN 61000-3-2, EN 61000-3-3, EN 55032, EN 50130, EN 55024 Interoperability ONVIF 16.12, CGI Conformant ONVIF 16.12, CGI Conformant	Max. User Access	128 users			
Interoperability ONVIF 16.12, CGI Conformant UL: UL 60950-1	Smart Phone	iPhone, iPad, Android	Certifications	CE-EMC: EN 61000-3-2, EN 61000-3-3, EN 55032, EN	
	Interoperability	ONVIF 16.12, CGI Conformant		UL: UL 60950-1	

Pro Series | DH-XVR7108/16HE-4KL-X

Ordering Information					
Туре	Part Number	Description			
8/16 Channel XVR	DH-XVR7108HE-4KL-X	8 Channel Penta-brid 4K Mini 1U Digital Video Recorder			
	DH-XVR7116HE-4KL-X	16 Channel Penta-brid 4K Mini 1U Digital Video Recorder			

Rear Panel

DH-XVR7108HE-4KL-X





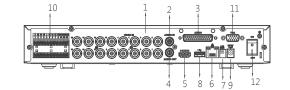
Dimensions (mm)



DH-XVR7116HE-4KL-X







1	VIDEO IN	7	RS485 port
2	AUDIO IN, RCA Connector	8	USB port
3	AUDIO IN	9	DC12V Power Input
4	AUDIO OUT	10	ALARM IN / OUT
5	HDMI port	11	VGA port
6	Network port	12	Power Switch



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