

# DH-XVR5104HS-X1

# 4 Channel Penta-brid 1080P Compact 1U Digital Video Recorder



- · H.265+/H.265 dual-stream video compression
- · Supports HDCVI/AHD/TVI/CVBS/IP video inputs
- · Max 6 channels IP camera inputs, each channel up to 6MP; Max 24Mbps 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 Lite 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 XVR can auto recognize the signal of front-camera without any setting. It makes operation more friendly and convenient.

#### High Definition Camera Input

The XVR supports up to 5MP HDCVI camera and 6MP 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.



#### **POS Functionality**

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

#### 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.

#### 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 predetermined 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.



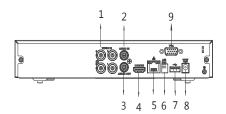
Main Processor   Embedded Indus	Technical Specification		Video Detection and Alarm	
Departure   Debedded LMUX	System		Trigger Events	Recording, PTZ, Tour, Video Push, Email, FTP, Snapshot, Buzzer and Screen Tips
Marris Imput   N/A	Main Processor		Video Detection	Motion Detection, MD Zones: 396 (22 × 18), Video Loss, Tampering and Diagnosis
Wideo and Audio         Annalog Camera Input         A Channel, BNC         Palyback and Backup           INCOVICIAmera         566, 448, 1000 PB2/520, 720 PB2/520 Pb         149 Palyback and Backup           INC Camera         566, 448, 1000 PB2/520, 720 PB2/520 Pb         149 Palyback and Backup           INC Camera         566, 448, 1000 PB2/520, 720 PB2/520 Pb         149 Palyback Function         184 Palyback Function           PLANTISC         PLANTISC         Play, Pause, 500, Pewrid, Fast plus, 500 PBw, Next Tile Palyback Function         Play, Pause, 500, Pewrid, Fast plus, 500 PBw, Next Tile Palyback Function           POLATISC         PLANTISC         Play, Pause, 500, Pewrid, Fast plus, 500 PBw, Next Tile Palyback Function         Play, Pause, 500, Pewrid, Fast plus, 500 PBw, Next Tile Palyback Function           Nov wy rilk         Reuse audio in/out, RCA         Backup Mode         USB Divice/Palyback Function           Record Recording         Males asserted the statement	Operating System	Embedded LINUX	Alarm input	
Playback and Backup	Video and Audio			
MAY	Analog Camera Input	4 Channel, BNC		ın
Search Mode	HDCVI Camera	5MP, 4MP, 1080P@25/30fps, 720P@50/60fps, 720P@25/30fps	•	
Manual   See   S	AHD Camera	5MP, 4MP, 1080P@25/30, 720P@25/30fps	·	
Pamback Function   Province Size, Rest Camera, Full Screet Reports, Smith Lay Selection, Digital Zoom Number of Storage   Pamback Function   Pam	TVI Camera	5MP, 4MP, 1080P@25/30, 720P@25/30fps	Search Mode	
P. Camera Input	CVBS Camera	PAL/NTSC	District Comption	Play, Pause, Stop, Rewind, Fast play, Slow Play, Next File, Previous File, Next Camera, Previous Camera, Full Screer Repeat, Shuffle, Backup Selection, Digital Zoom
Storage	IP Camera Input	4+2 Channel, each channel up to 6MP	Playback Function	
Storage	Audio In/Out	1/1, RCA	Backup Mode	USB Device/Network
Internal HDD   1 SATA Port, up to 6TB capacity	Two-way Talk	Reuse audio in/out, RCA	Storage	
Second Rate   Main streamthe 1st channel   SM-N, 4M-N, 1880B, 1080N, 720P, 960H, DI, CIF   Auxiliary Interface   SM-N, 4M-N, 1880B, 1080N, 720P, 960H, DI, CIF   Auxiliary Interface   USB   2 USB 2.0   RS232   N/A   RS485   1 Port, for PTZ Control   SM-N, 4M-N, 1080B, 1080N, 720P, 960H   DI, CIF (1-25/30Fs)   SUSB 12 USB 2.0   RS232   N/A   RS485   1 Port, for PTZ Control   SM-N, 4M-N, 1080B, 1080N, 720P, 960H   DI, CIF (1-25/30Fs)   RS232   N/A   RS485   1 Port, for PTZ Control   SM-N, 4M-N, 1080B, 1080N, 700P, 960H   DI, CIF (1-25/30Fs)   RS232   N/A   RS485   1 Port, for PTZ Control   SM-N, 4M-N, 1080B, 1080N, 700P, 960H   DI, CIF (1-25/30Fs)   Power Consumption   DI, CIF (1-25/30Fs)   Power Consumption   CIP (1-25/30Fs)   CIP (1-25/30F	Recording		<u> </u>	
Resolution SM-N, 4M-N, 1080P, 1080N, 720P, 960H, D1, GIF  Main stream:the 1st channel 5M-N(1=10fps), other channels  Auxiliary Interface  USB 2USB 2.0  Auxiliary Interface  USB 2USB 2.0  N/A  SS232	Compression	H.265+/H.265/H.264+/H.264		
Main streamthe 1st channel 5M-N(1-10/ps), other channels   10/58   2 USB 2.0		5M-N 4M-N 1080P 1080N 720P 960H D1 CIE	eSATA	N/A
### AM-M/JOSP(F1-5f)spk; 1080N/720P/960H/ DI/LEF (F2/530F)s Sub stream: DI/LEF (F2/50F)s Sub stream: DI/	Resolution		Auxiliary Interface	
Sub stream: DIZCIE(T-15fps) Bit Rate  32kbps ~ 6144kbps Per Channel  Record Mode  Manual, Schedule (General, Continuous), MD (Video detection: Motion Detection, Video Loss, Tampering), Alarm, Stop Power Supply  DC12V/1.5A  Power Consumption (without HDD)  AC(only for the 1st channel), G.711A, G.711U, PCM  Audio Sample Rate  8KHz, 16 bit Per Channel  Bit Rate  64kbps Per Channel  Dimensions  Compact 1U, 260×236×48mm(10.2"×9.3"×1.9")  Audio Bit Rate  64kbps Per Channel  Dimensions  Compact 1U, 260×236×48mm(10.2"×9.3"×1.9")  Audio Sample Rate  Audio Bit Rate  64kbps Per Channel  Dimensions  Compact 1U, 260×236×48mm(10.2"×9.3"×1.9")  Audio Tiray  Audio Tiray  Net Weight (without HDD)  O.9kg (2.0 lb)  Gross Weight  1.6kg (3.5 lb)  Installation  Desktop installation  Environmental  Operating Conditions  Power Supply  Construction  AC(only for the 1st channel), G.711A, G.711U, PCM  Construction  Dimensions  Compact 1U, 260×236×48mm(10.2"×9.3"×1.9")  483mmx281mmx56mm (19.0"x11.1"x2.2")  Alam mx281mmx56mm (19.0"x11.1"x2.2")  Net Weight (without HDD)  O.9kg (2.0 lb)  Gross Weight  1.6kg (3.5 lb)  Installation  Desktop installation  Environmental  Operating Conditions  Compact 1U, 260×236×48mm(10.2"×9.3"×1.9")  Audio Sampa Rate  Audio Sampa Rate  Audio Sample Rate  Audio Sampl	Record Rate	4M-N/1080P(1~15fps); 1080N/720P/960H/	USB	2 USB 2.0
Bit Rate 32kbps ~6144kbps Per Channel Manual, Schedule (General, Continuous), MD (Video detection: Motion Detection, Video Loss, Tampering), Alarm, Stop Power Supply DC12VJ1.5A  Record Interval 1~60 min (default: 60 min), Pre-record: 1~30 sec, Post-record: 10~30 sec, Po				
Manual, Schedule (General, Continuous), MD (Video detection) Motion Detection, Video Loss, Tampering), Alarm, Stop Power Supply DC12V/1.5A  Power Consumption (without HDD)  Audio Compression AAC(only for the 1st channel), G.711A, G.711U, PCM Construction  Dimensions Compact 1U, 260×236×48mm(10.2"×9.3"×1.9") Audio Sample Rate Audio Bit Rate 64Kbps Per Channel Display Interface 1 HDMI, 1 VGA Resolution 1920×1080, 1280×1024, 1280×720 Gross Weight When IP extension mode not enabled: 1/4 When IP extension mode not enabled: 1/4/6 OSD Camera title, Time, Video loss, Camera lock, Motion detection, Recording Network Interface 1 RI-45 Port (100M) HTTP, HTTP, TCP/IP, IPv4/IPv6, Wi-Fi, 3G/4G, SNMP, UPP, RTSP, UDP, SMTP, NTP, DHCP, DNS, IP Filter, PPP0E, DDNS, FTP, Alarm Server, P2P, P Search (Supports Dahua IP camera, DVR, NVS etc.)  Max. User Access 128 users Certifications  Power Supply DC12V/1.5A  Power Consumption (without HDD) 100W  **COOSTUCKION  Construction  Dimensions Compact 1U, 260×236×48mm(10.2"×9.3"×1.9")  A83mmx281mmx281mmx56mm (19.0"x11.1"x2.2")  A83mmx281mmx261mmx56mm (19.0"x11.1"x2.2")  A83mmx281mmx56mm (19.0"x11.1"x2.2")  A83mmx281mmx56mm (19.0"x11.1"x2.2")  A83mmx281mmx56mm (19.0"x11.1"x2.2")  A84mmx281mmx56mm (19.0"x11.1"x2.2")  A85mmx281mmx56mm (19.0"x11.1"x2.2")  A85mmx281mmx	Bit Rate	32Kbps ~ 6144Kbps Per Channel	RS485	1 Port, for PTZ Control
Record Interval 1.~60 min (default: 60 min), Pre-record: 1~30 sec, Post-record: 10~300 sec  Audio Compression AAC(only for the 1st channel), G-711A, G-711U, PCM  Audio Sample Rate 8KHz, 16 bit Per Channel  Dimensions Compact 1U, 260×236×48mm(10.2"×9.3"×1.9")  Audio Bit Rate 64Kbps Per Channel  Display  Interface 1 HDMI, 1 VGA  Resolution 1920×1080, 1280×1024, 1280×720  When IP extension mode not enabled: 1/4 When IP extension mode enabled: 1/4/6  DSD Camera title, Time, Video loss, Camera lock, Motion detection, Recording  Network  Interface 1 RJ-45 Port (100M)  HTTP, HTTPS, TCP/IP, IPV4/IPV6, Wi-Fi, 3G/4G, SNMP, UPPP, RTSP, UDP, SMTP, NTP, DHCP, DNS, IP Filter, PPP6, DONS, FTP, Alms Server, P2P, IP Search (Supports Dahua IP camera, DVR, NVS, etc.)  Max. User Access 128 users  Certifications  Power Consumption (without HDD)  Construction  Dimensions Compact 1U, 260×236×48mm(10.2"×9.3"×1.9")  A83mmx281mmx26mm(19.0"×11.1"x2.2")  A83mmx281mmx56mm (19.0"×11.1"x2.2")  Net Weight (without HDD)  O9kg (2.01b)  Gross Weight  1.6kg (3.5 lb)  Installation  Desktop installation  Desktop installation  Desktop installation  Desktop installation  Desktop installation  Third-party Support  Storage Conditions  2.0"C ~ 45"C (+14"F ~ + 113"F), up to 55"C/131"F with critical fam, 10" 90 MR H  Third-party Support  Third-party Support  Third-party Support  Dahua, Arecont Vision, AXIS, Bosch, Brickcom, Canno,	Record Mode			DC12V/1 FA
Audio Compression AAC(only for the 1st channel), G.711A, G.711U, PCM  Audio Sample Rate AC(only for the 1st channel), G.711A, G.711U, PCM  Audio Sample Rate AC(only for the 1st channel) Audio Sample Rate Action Sample Rate			.,,	DC12V/1.5A
Audio Sample Rate  Audio Sample Rate  Audio Sample Rate  Audio Bit Rate  64Kbps Per Channel  Device with PFH101 Rack Mount Tray  Net Weight (without HDD)  Audio Bit Rate  1 HDMI ,1 VGA  Resolution  1920×1080, 1280×1024, 1280×720  Multi-screen Display  When IP extension mode not enabled: 1/4 When IP extension mode enabled: 1/4/6  DoSD  Camera title, Time, Video loss, Camera lock, Motion detection, Recording  NetWork  Network  Interface  1 RJ-45 Port (100M)  HTTP, HTTPS, TCP/IP, IPVA/IPV6, Wi-Fi, 3G/AG, SNMP, UPPP, RTSP, UDP, SMTP, NTP, DHCP, DNS, IP Filter, PPPoE, DDNS, FTP, Alarm Server, PZP, IP Search (Supports Dahua IP camera, DVR, NVS, etc.)  Max. User Access  128 users  Certifications  Compact 1U, 260×236×48mm(10.2"×9.3"×1.9")  A83mmx281mmx56mm (19.0"×11.1"x2.2")  A83mmx281mmx56mm (19.0"×11.1"x2.2")  Net Weight (without HDD)  O.9kg (2.0 lb)  Installation  Desktop installation  Environmental  Operating Conditions  -10°C~+45°C (+14°F~+113°F), up to 55°C/131°F with cate fan, 10°90% RH  Third-party Support  Third-party Support  Third-party Support  Dahua, Arecont Vision, AXIS, Bosch, Brickcom, Canon, Cano	Record Interval		·	<10W
Audio Bit Rate Device with PFH101 Rack Mount Tray  Net Weight (without HDD)  O.9kg (2.0 lb)  Multi-screen Display  Methous Pextension mode not enabled: 1/4 When IP extension mode enabled: 1/4/6  DSD Camera title, Time, Video loss, Camera lock, Motion detection, Recording  Network  Interface 1 RJ-45 Port (100M)  HTTP, HTTPS, TCP/IP, IPv4/IPv6, Wi-Fi, 3G/4G, SNMP, 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  Device with PFH101 Rack Mount Tray  Alam Server, P2P,IP Search (Supports Dahua IP camera, DVR, NVS, etc.)  Device with PFH101 Rack Mount Tray  Alam Server, P2P,IP Search (Supports Dahua IP camera, DVR, NVS, etc.)  Device with PFH101 Rack Mount Tray  Alam Server, P2P,IP Search (Supports Dahua IP camera, DVR, NVS, etc.)  Device with PFH101 Rack Mount Tray  Alam Server, P2P,IP Search (Supports Dahua IP camera, DVR, NVS, etc.)  Device with PFH101 Rack Mount Tray  Net Weight (without HDD) O.9kg (2.0 lb)  Installation Desktop installation  Environmental  Operating Conditions  -10°C ~ 45°C (+14°F ~ +113°F), up to 55°C/131°F with cannot be possible to the possible title of the possible title of the possible title of the possible title of the party Support  Third-party Support  Third-party Support  Third-party Support  Dahua, Arecont Vision, AXIS, Bosch, Brickcom, Canon, C	Audio Compression	AAC(only for the 1st channel), G.711A, G.711U, PCM	Construction	
Display Interface 1 HDMI,1 VGA Resolution 1920×1080, 1280×1024, 1280×720 Gross Weight 1.6kg (3.5 lb)  Multi-screen Display When IP extension mode not enabled: 1/4 When IP extension mode enabled: 1/4/6  DSD Camera title, Time, Video loss, Camera lock, Motion detection, Recording Power of the Company of the	Audio Sample Rate	8KHz, 16 bit Per Channel	Dimensions	Compact 1U, 260×236×48mm(10.2"×9.3"×1.9")
Net Weight (without HDD)  Resolution  1920×1080, 1280×1024, 1280×720  Multi-screen Display  When IP extension mode not enabled: 1/4 When IP extension mode enabled: 1/4/6  DSD  Camera title, Time, Video loss, Camera lock, Motion detection, Recording  Network  Interface  1 RJ-45 Port (100M)  HTTP, HTTPS, TcP/IP, IPv4/IPv6, Wi-Fi, 3G/4G, SNMP, UPnP, Alarm Server, P2P,IP Search (Supports Dahua IP camera, DVR, NVS, etc.)  Max. User Access  128 users  Certifications  NetWork Interoperability  Network interporability  Network interporation inte	Audio Bit Rate	64Kbps Per Channel		483mmx281mmx56mm (19.0"x11.1"x2.2")
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Multi-screen Display  When IP extension mode not enabled: 1/4 When IP extension mode enabled: 1/4/6  DSD  Camera title, Time, Video loss, Camera lock, Motion detection, Recording  Network  Interface  1 RJ-45 Port (100M)  HTTP, HTTPS, TCP/IP, IPV4/IPV6, WI-Fi, 3G/4G, SNMP, 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  Certifications  Tocc: Part 15 Subpart B  Certifications		·	(without HDD)	0.5Kg (2.0 lb)
When IP extension mode enabled: 1/4/6  Camera title, Time, Video loss, Camera lock, Motion detection, Recording  Network  Interface  1 RJ-45 Port (100M)  HTTP, HTTPS, TCP/IP, IPv4/IPv6, Wi-Fi, 3G/4G, SNMP, UPnP, RTSP, Upp, 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  Certifications  Environmental  Operating Conditions  -10°C ~ +45°C (+14°F ~ +113°F), up to 55°C/131°F with careful fan, 10~ 90% RH  Storage Conditions  -20°C ~ +70°C (-4°F ~ +158°F), 0~ 90% RH  Third-party Support  Third-party Support  Dahua, Arecont Vision, AXIS, Bosch, Brickcom, Canon, Ca	Resolution	1920×1080, 1280×1024, 1280×720	Gross Weight	1.6kg (3.5 lb)
Camera title, Time, Video loss, Camera lock, Motion detection, Recording  Network  Network  Interface  1 RJ-45 Port (100M)  HTTP, HTTPS, TCP/IP, IPv4/IPv6, Wi-Fi, 3G/4G, SNMP, UPnP, Alarm Server, P2P,IP Search (Supports Dahua IP camera, DVR, NVS, etc.)  Max. User Access  128 users  Certifications	Multi-screen Display			Desktop installation
Network  Interface  1 RJ-45 Port (100M)  HTTP, HTTPS, TCP/IP, IPv4/IPv6, Wi-Fi, 3G/4G, SNMP, 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  Certifications  Third-party Support  Dahua, Arecont Vision, AXIS, Bosch, Brickcom, Canon,	OSD			-10°C ~ +45°C (+14°F ~ +113°F), up to 55°C/131°F with ca
Interface 1 RJ-45 Port (100M)  HTTP, HTTPS, TCP/IP, IPv4/IPv6, Wi-Fi, 3G/4G, SNMP, 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  Certifications  Certifications  Third-party Support  Dahua, Arecont Vision, AXIS, Bosch, Brickcom, Canon, C Plus, Dynacolor, Honeywell, Panasonic, Pelco, Samsung Sanyo, Sony, Videotec, Vivotek, and more  Certifications  FCC: Part 15 Subpart B  Certifications  Certifications  Certifications	Network		Operating Conditions	
Network Function  HTTP, HTTPS, TCP/IP, IPv4/IPv6, Wi-Fi, 3G/4G, SNMP, UPnP, RTSP, UDP, SMTP, DHCP, DNS, IP Filter, PPPoE,DDNS, FTP, Alarm Server, P2P,IP Search (Supports Dahua IP camera, DVR, NVS, etc.)  Third-party Support  Third-party Support  Third-party Support  Certifications  Certifications  Third-party Support  Third-party Support  Third-party Support  Certifications  Certifications  Certifications  CE: CE-LVD: EN 60950-1/IEC 60950-1 CE-EMC: EN 61000-3-2, EN 61000-3-3, EN 55032, EN 50	Interface	1 RJ-45 Port (100M)		
Example 1 Phone, iPad, Android 5 FCC: Part 15 Subpart B FCC: Part 15	Network Function	RTSP, UDP, SMTP, NTP, DHCP, DNS, IP Filter, PPPOE, DDNS, FTP, Alarm Server, P2P, IP Search (Supports Dahua IP camera, DVR,		Dahua, Arecont Vision, AXIS, Bosch, Brickcom, Canon, Cl Plus, Dynacolor, Honeywell, Panasonic, Pelco, Samsung,
Smart Phone iPhone, iPad, Android FCC: Part 15 Subpart B  Interoperability ONVIF 16.12, CGI Conformant CE: CE-LVD: EN 60950-1/IEC 60950-1  CE-EMC: EN 61000-3-2, EN 61000-3-3, EN 55032, EN 50	Max. User Access	128 users	Certifications	
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 50	Smart Phone	iPhone, iPad, Android		FCC: Part 15 Subpart B
	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 50

# Lite Series | DH-XVR5104HS-X1

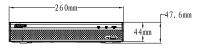
Ordering Information					
Туре	Part Number	Description			
4 Channel XVR	DH-XVR5104HS-X1	4 Channel Penta-brid 1080P Compact 1U Digital Video Recorder			
Accessory, optional	DH-PFH101	Rack Mount Tray			

#### **Rear Panel**

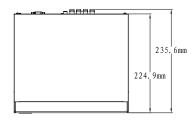
DH-XVR5104HS-X1



# Dimensions (mm)









- 1 VIDEO IN
- 2 AUDIO IN, RCA Connector
- 3 AUDIO OUT, RCA Connector
- 4 HDMI Interface
- 5 Network Interface
- 6 RS485 Interface
- 7 USB Interface
- 8 DC 12V Power Input
- 9 VGA Interface

# **Installation on Rack Mount Tray**

