

8 Channel Penta-brid 1080P Mini 1U Digital Video Recorder



















- Embedded processor
- H.264+/H.264 dual-stream video compression
- Support HDCVI/AHD/TVI/CVBS/IP video inputs
- Max 12 channels IP camera inputs, each channel up to 5MP; Max 48Mbps Incoming Bandwidth
- Smart Search and Intelligent Video System

# XVR521H-8



## 8 Channel Penta-brid 1080P Mini 1U Digital Video Recorder

#### **System Overview**

BLUE | LINE continues to offer the latest technology in the security industry ,and now we present XVR-S2 Series. As the perfect solution to upgrade existing video surveillance systems, XVR supports penta-brid access technology such as HDCVI, AHD, TVI, CVBS and IP to effortlessly integrate with popular industry formats, offering an affordable solution loaded with flexible options. It supports up to 8 channels of HDCVI/AHD/TVI/CVBS inputs, and 4 channels IP camera additionally, 8 channels local live-view channels, and 9 playback channels.

Designed as a full compatibility product, XVR is able to provide end user the simplicity of analog system, namely lower system cost, simple installation and use of existing cable. It is ideal for a wide range of applications such as public safety, retail store, transportation, home protection and education.

#### **Functions**

#### Smart H.264+

Smart Codec, H.264+ can reduce up to 70% bit rate and storage requirements 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.

#### 5MP Resolution

The XVR supports up to 5MP HD resolution (2560  $\times$  1920) IPC input for recording, live viewing.

#### Coaxial Audio/Upgrade/Alarm

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

#### Smart Fan

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 while extending the life of the fan at the same time.

#### Spot Output (XVR521H-8)

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 type technology being used in a variety of applications that search or identify individuals which show front cameras.

#### **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.

#### Perfect Image Quality

High performance chip provides perfect image quality with better color reproduction.

# XVR521H-8



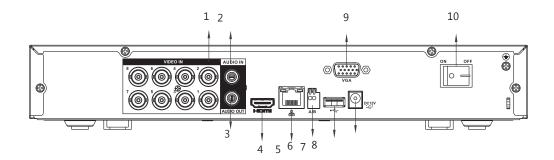
## 8 Channel Penta-brid 1080P Mini 1U Digital Video Recorder

Operating System         Embedded UNUX         Video and Audio         Analog Camera Input         8 Chamed, BNC         MA           Analog Camera Input         8 Chamed, BNC         Playback and Backup           HDCVI Camera         4MP, 1080P@25/30ps, 720P@50/50ps, 720P@50/50ps         Playback and Backup           AIID Camera         4MP, 1080P@25/30, 720P@50/50ps         Playback         8 Cht 1/4/9           VICamera         4MP, 1080P@25/30, 720P@25/30/ps         Search Mode         Time/Dark, Alarm, MD and Facet Search faccurate for exceed           VICamera Input         84 Channel, each channel up to 5MP         Playback Function         Time/Dark, Alarm, MD and Facet Search faccurate for exceed           PCamera Input         84 Channel, each channel up to 5MP         Playback Function         Playback Function         Playback Function         Playback Function         Screen, Repeat, Shuffle, Backup, Seelection, Digital Zoom           Recording         174, RCA         8 Sackup Mode         USB Device/Network         Screen, Repeat, Shuffle, Backup, Seelection, Digital Zoom           Record Rate         Main stream INA-NJBBODYT-15fps1, 2080N/720/9050Hy         Screen, Repeat, Shuffle, Backup Seelection, Digital Zoom         Auxiliary Interface         Script         N/A           Record Backup         Membras Schedig Regular, Continuously, MD (Video         Scs22         N/A         Script Script         Script	Technical Specifica	tion	Video Detection ar	nd Alarm	
Video Detection	System		Trigger Events		
Alarm input   NA   NA	Main Processor		Video Detection		
National Audion   Relay Output   National Audional Audi	Operating System	Embedded LINUX	Alarm input		
HOCV Camera	Video and Audio				
HOCK Camera	Analog Camera Input	8 Channel, BNC	Playback and Back	qu	
AR-D Camera   AMM_1880P(25/50, 720P(25/50)Pps   CVBS Camera   AMM_1880P(25/50, 720P(25/50)Pps   CVBS Camera   AMM_1880P(25/50, 720P(25/50)Pps   CVBS Camera   AMM_1880P(25/50, 720P(25/50)Pps   Audio In/Out   3/1, RCA   Playhack Function   Playhack Function   Playhack Function   Screen, Repeat, Shuffle, Backup Selection, Digital Zoom Proway Talk   Revea audio In/Out, RCA   Backup Mode   USB Device/Network   Screen, Repeat, Shuffle, Backup Selection, Digital Zoom Proway Talk   Reveal of In/Out, RCA   Backup Mode   USB Device/Network   Screen, Repeat, Shuffle, Backup Selection, Digital Zoom Proway Talk   Reveal Mode   USB Device/Network   Screen, Repeat, Shuffle, Backup Selection, Digital Zoom Proway Talk   Reveal Mode   USB Device/Network   USB Device/Network   Screen, Repeat, Shuffle, Backup Selection, Digital Zoom Proway Talk   Reveal Mode   USB Device/Network   USB Device/Netw	HDCVI Camera	4MP, 1080P@25/30fps, 720P@50/60fps, 720P@25/30fps	,		
CVBS Camera         PAL/NTSC         Search Mode         playback Function         Score Function         Playback Function         Playback Function         Score Function         Playback Function         Playback Function         Score Function         Playback Function         Playbac	AHD Camera	4MP, 1080P@25/30, 720P@25/30fps	Playback	8CH: 1/4/9	
CVBS Camera         PAL/NTSC         Second           IP Camera Input         34 Channel, each channel up to 5MP         Playback Function         Playback Function <td>TVI Camera</td> <td>4MP, 1080P@25/30, 720P@25/30fps</td> <td>Soarch Mode</td> <td>Time /Date, Alarm, MD and Exact Search (accurate to</td>	TVI Camera	4MP, 1080P@25/30, 720P@25/30fps	Soarch Mode	Time /Date, Alarm, MD and Exact Search (accurate to	
Audio In/Out	CVBS Camera	PAL/NTSC	Search Mode	second)	
Audio In/Out         1/1, RCA         Screen, Repeat, Shuffle, Backup Selection, Digital Zoom           Two-way Talk         Reuse audio in/out, RCA         Backup Mode         USB Device/Network           Recording         Storage         Storage           Compression         4M-M, 1080P, 1080N, 720P, 960H, D1, HD1, RCIF, CIF, CIF.         e5ATA         N/A           Resolution         Minis stream, 4M-M, 1080P, 125(p1); 155(p1); 1080N, 720P/950H/9         Auxiliary Interface         Auxiliary Interface           Bit Rate         116bs ~ 0144Kbps Per Channel         USB         BCH2 USB 2.0           Record Mode         Amount, Schedule (Regular, Continuous), MD (Video detection, Motion Detection, Video Loss, Tampering), Alarm, Stoo defection, Motion Detection, Video Loss, Post Provided Loss, Post	IP Camera Input	8+4 Channel, each channel up to 5MP	Dlayback Function		
Storage	Audio In/Out	1/1, RCA	Playback Puliction		
Compression	Two-way Talk	Reuse audio in/out, RCA	Backup Mode	USB Device/Network	
Resolution	Recording		Storage		
Resolution         4M-N, 1080P, 1080N, 720P, 960H, D1, HD1, BCIF, CIF, QCIF         eSATA         N/A           Record Rate         Main stream 4M-N/1080P(1-15fps): 1080N/720P/960H/ D1/PD/BCIF/CIF/COF(1-75f30P): Sub steram: D1/CIF/QCIF(1-15fps): Sub steram: D1/CIF/QCIF/QCIF(1-15fps): Sub steram: D1/CIF/QCIF/QCIF/QCIF/QCIF/QCIF/QCIF/QCIF/	Compression	H.264+/H.264	_	1 SATA Port up to 8TR capacity	
Main stream: MA-M/1080P(1-15fps): 1080N/720P(960H/ 5/05P(15/45/Cc)F(1-25/30P(95) 5/05NP(960H/ 5/05P(15/45/Cc)F(1-25/30P(95) 5/05NP(960H/ 5/05P(15/45/Cc)F(1-25/30P(95) 5/05NP(960H/ 5/05P(15/45/65) 5/05NP(15/45/65) 5/05NP(960H/ 5/05P(15/45/65) 5/0	Resolution	4M-N, 1080P, 1080N, 720P, 960H, D1, HD1, BCIF, CIF, QCIF			
Bit Rate         1Kbps ~ 6144kbps Per Channel         USB         8CH:2 USB 2.0           Record Mode         Manual, Schedule (Regular, Continuous), MD (Video detection; Wideo Loss, Tampering), Allam, stop         RS232         N/A           Record Interval         1~ 60 min (default: 60 min), Pre-record: 1~ 30 sec, Post-record: 10~ 30 sec         Electrical           Display         Power Supply         DC12V/2A           Interface         1 HDM J. VGA         40W (Without HDD)           Resolution         1920×1080, 1280×1024, 1280×720, 1024×768         Construction           Multi-screen Display         When IP extension mode not enabled: 8CH: 1/4/R/9/16         Dimensions         Mini 1U, 325mmx255mmx55mm (12.8° x 10° x 2.2°)           Multi-screen Display         When IP extension mode enabled: 8CH: 1/4/R/9/16         Dimensions         Mini 1U, 325mmx255mmx55mm (12.8° x 10° x 2.2°)           Multi-screen Display         When IP extension mode enabled: 8CH: 1/4/R/9/16         Power Supply         2kg (4.4lb)           MSCH: 1/4/R/9/16         Gross Weight         2kg (4.4lb)           Network         Camera title, Time, Video loss, Camera lock, Motion detection, Recording         For print Conditions         -10°C ~ 155°C (14°F ~ 158°F), 0~ 90% RH           Network         Hottp. T.Ce/IP, IPv4/IPv6, UPPR, RTSP, UPP, SMTP, NTP, DHCP, DNS, IP Filter, PPPGD, DDNS, FTP, Alarm Server, P2P, P2P, P2P, P2P, P2P, P2P, P2P, P2	Record Rate	D1/HD1/BCIF/CIF/QCIF(1~25/30fps)		· ·	
Record Mode Alarm, Stop Alarm,	Bit Rate		USB	8CH:2 USB 2.0	
Record Interval   1-60 min (default: 60 min), Pre-record: 1~30 sec, Postrecord: 10~300 sec   Power Supply   Power Supply   Power Supply   Power Consumption   Cl2V/2A   Cl0V (Without HDD)   Claver Consumption   Clover Consump	0 104 1		RS232	N/A	
Power Supply DC12V/2A  Power Consumption C10W (Without HDD)  Interface 1 HDMI ,1 VGA  Resolution 1920x1080, 1280x1024, 1280x720, 1024x768  When IP extension mode not enabled: 8CH: 1/4/8/9  Multi-screen Display 2 When IP extension mode enabled: 8CH: 1/4/8/9/16  Multi-screen Display 3 Camera title, Time, Video loss, Camera lock, Motion detection, Recording C12,8" x 10" x 2.2")  OSD Camera title, Time, Video loss, Camera lock, Motion detection, Recording C12,8" x 10" x 2.2")  Net Weight 1.5kg (3.3 lb) (without HDD)  For sweight 2kg (4.4 lb)  Installation Desktop installation  Environmental  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  Certifications  FCC: Part 15 Subpart B	Record Mode		RS485	1 Port, for PTZ Control	
Interface 1 HDMI ,1 VGA  Resolution 1920×1080, 1280×1024, 1280×720, 1024×768  When IP extension mode not enabled: 8CH: 1/4/8/9  Multi-screen Display 8CH: 1/4/8/9/16  Multi-screen Display 8CH: 1/4/8/9/16  Multi-screen Display 8CH: 1/4/8/9/16  Camera title, Time, Video loss, Camera lock, Motion detection, Recording 9CP and detection, Part 9CP and de	Record Interval	· · · · · · · · · · · · · · · · · · ·	Electrical		
Resolution 1920x1080, 1280x1024, 1280x720, 1024x768 Construction  When IP extension mode not enabled: 8CH: 1/4/8/9 When IP extension mode enabled: 8CH: 1/4/8/916  Gross Weight 1.5kg (3.3 lb) (without HDD)  Environmental OSD Camera title, Time, Video loss, Camera lock, Motion detection, Recording  Network  Interface  4/8CH: 1 RJ-45 Port (100M) Third-party Support  When IP, PPOE, 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 2.42, CGI Conformant  Construction  Mini 10, 325mmx255mmx255mmx55mm (12.8" x 10" x 2.2")  Mini 10, 325mmx255mmx255mmx55mm (12.8" x 10" x 2.2")  Dimensions  Mini 10, 325mmx255mmx255mmx55mm (12.8" x 10" x 2.2")  Net Weight 1.5kg (3.3 lb) (without HDD)  Pesktop in the support and be support and	Display		Power Supply	DC12V/2A	
When IP extension mode not enabled: 8CH: 1/4/8/9/16  Multi-screen Display When IP extension mode enabled: 8CH: 1/4/8/9/16  SCH: 1/4	Interface	1 HDMI ,1 VGA	Power Consumption	<10W (Without HDD)	
Multi-screen Display When IP extension mode enabled: 8CH: 1/4/8/9/16 When IP extension mode enabled: 8CH: 1/4/8/9/16  Gross Weight 2kg (4.4lb) Desktop installation Desktop installation  Environmental Operating Conditions Operating Conditions -10°C ~ +55°C (+14°F ~ +131°F), 0~ 90% RH  Third-party Support  Network  Network Function  Max. User Access 128 users  Max. User Access 128 users  Smart Phone Interoperability OnviF 2.42, CGI Conformant  Net Weight 1.5kg (3.3 lb) (without HDD)  A kg (4.4 lb)  A kg (4.4 lb	Resolution	1920×1080, 1280×1024, 1280×720, 1024×768	Construction	Construction	
Multi-screen Display When IP extension mode enabled: 8CH: 1/4/8/9/16  Camera title, Time, Video loss, Camera lock, Motion detection, Recording  Network  Network  Interface  4/8CH: 1 RJ-45 Port (100M)  Network Function  Max. User Access  Smart Phone  iPhone, iPad, Android  Interoperability  Net Weight  1.5kg (3.3 lb) (without HDD)  2kg (4.4lb)  1.5kg (4.4lb)  2kg (4.4			Dimensions	Mini 1U, 325mm×255mm×55mm (12.8" x 10" x 2.2")	
Scross Weight 2kg (4.4lb)    Installation   Desktop installation		When IP extension mode enabled:	Net Weight	1.5kg (3.3 lb) (without HDD)	
Environmental  Camera title, Time, Video loss, Camera lock, Motion detection, Recording  Operating Conditions  -10°C ~ +55°C (+14°F ~ +131°F), 0~ 90% RH  Network  Interface  4/8CH: 1 RJ-45 Port (100M)  Third-party Support  Third-party Support  Third-party Support  Third-party Support  Third-party Support  Third-party Support  Certifications  Max. User Access  128 users  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		Gross Weight	2kg (4.4lb)	
OSD Camera title, Time, Video loss, Camera lock, Motion detection, Recording 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  A/8CH: 1 RJ-45 Port (100M) Third-party Support  Third-party Support  Third-party Support  Third-party Support  Third-party Support  Third-party Support  Certifications  Max. User Access 128 users  Smart Phone iPhone, iPad, Android Interoperability ONVIF 2.42, CGI Conformant  Certifications  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  Third-party Support  Certifications  Certifications  Certifications  Certifications  CE: CE-LVD: EN 60950-1/IEC 60950-1  CE: CE-LVD: EN 60950-1/IEC 60950-1  CE: CE-LVD: EN 61000-3-2, EN 61000-3-3, EN 55032, EN 61000-3-3,			Installation	Desktop installation	
Dahua, Arecont Vision, AXIS, Bosch, Brickcom, Canon, Can			Environmental		
Interface  4/8CH: 1 RJ-45 Port (100M)  Third-party Support  Plus, Dynacolor, Honeywell, Panasonic, Pelco, Samsung, Sanyo, Sony, Videotec, Vivotek, and more  Certifications  Max. User Access  128 users  Smart Phone  iPhone, iPad, Android  Interoperability  ONVIF 2.42, CGI Conformant  Third-party Support  Certifications  Third-party Support  Certifications  Third-party Support  Certifications  Certifications  Certifications  Certifications	OSD		Operating Conditions	-10°C ~ +55°C (+14°F ~ +131°F), 0~ 90% RH	
Network Function  HTTP, 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 2.42, CGI Conformant  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	Network		Storage Conditions	-20°C ~ +70°C (-4°F ~ +158°F) , 0~ 90% RH	
Network Function  HTTP, 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 2.42, CGI Conformant  Third-party Support  Certifications  Plus, Dynacolor, Honewell, 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	Interface	4/8CH: 1 RJ-45 Port (100M)	Third-party Suppor		
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Smart Phone iPhone, iPad, Android FCC: Part 15 Subpart B  CE: CE-LVD: EN 60950-1/IEC 60950-1  Interoperability ONVIF 2.42, CGI Conformant Certifications CE-EMC: EN 61000-3-2, EN 61000-3-3, EN 55032, EN	Max. User Access	128 users	Certifications		
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## 8 Channel Penta-brid 1080P Mini 1U Digital Video Recorder

### **Rear Panel**



1	VIDEO IN	6	RS485 Interface
2	AUDIO IN, RCA Connector	7	USB Interface
3	AUDIO OUT, RCA Connector	8	DC 12V Power Input
4	HDMI Interface	9	VGA Interface
5	Network Interface	10	Power Switch