CSP-8/16PRO.4KL

8/16 Channel Penta-brid 4K 1U Digital Video Recorder



- · Embedded processor
- · H.264+/H.264 dual-stream video compression
- · Support HDCVI/AHD/TVI/CVBS/IP video inputs
- · Max 12/24 channels IP camera inputs, each channel up to 8MP
- · Max 48/96Mbps Incoming Bandwidth
- · Smart Search and Intelligent Video System













System Overview

Throughout the years, HDCVI technology gained international fame for becoming a brand new international standard for video surveillance, and has never stopped evolving. From 2MP to 4MP, now technology brings HDCVI into the 4K era. It presents a much clear and vivid world.

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.

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.

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.

Intelligent Fan Design

The intelligent 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

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 predetermined 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.

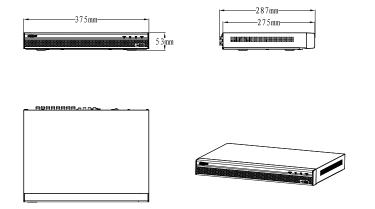


Impedided Processor	Technical Specifica	ition	Video Detection a	nd Alarm
Departing System	System		Trigger Events	Recording, PTZ, Tour, Video Push, Email, FTP, Snapshot, Buzz and Screen Tips
Video and Audio Relevo Dutout N/A	Main Processor	Embedded Processor	Video Detection	
Playback and Backup	Operating System	Embedded LINUX	Alarm input	N/A
### HDCVI Camera ### AK, 4MP, 1080P@25/301ps, 720P@55/301ps ### AID Camera ### AMP, 1080P@25/301ps, 720P@55/301ps ### AID Camera ### AMP, 1080P@25/30, 720P@55/301ps ### AID Camera ###	Video and Audio		Relay Output	N/A
AHD Camera SMP, 4MP, 1080 Pg.25/30, 720 Pg.25/30 ps TV Camera SMP, 3MP, 1080 Pg.25/30, 720 Pg.25/30 ps TV Camera SMP, 3MP, 1080 Pg.25/30, 720 Pg.25/30 ps PAL/NTSC PAL/NTSC PL Camera Input PL Camera Inp	Analog Camera Input	8/16 Channel, BNC	Playback and Back	cup
### AHO Camera	HDCVI Camera	4K, 4MP, 1080P@25/30fps, 720P@50/60fps, 720P@25/30fps	Dlanka di	8CH: 1/4/9
CVIS Camera input 84/16+8 Channel, each channel up to 8MP Playback Function Play Pause, Step, Revinid, Fast play, Stow May, Norst File, Perchange Ire, Mark Camera, Prenous Camera, Full Screen, Repeat, Shuffle, Backup Selection, Digital Zoom Norway Talk Reuse audio Infout, RCA Recording Storage Compression H; 264/H; 264 Recording Storage Compression H; 264/H; 264 Record Mark Record Rate	AHD Camera	5MP, 4MP, 3MP, 1080P@25/30, 720P@25/30fps	Playback	16CH: 1/4/9/16
Pay	TVI Camera	5MP, 3MP, 1080P@25/30, 720P@25/30fps	Search Mode	Time /Date, Alarm, MD and Exact Search (accurate to second
Planter Planter Playback Function Playback Function Playback Function Projection Playback Function Playback Function Projection Projection Playback Function Projection Projection Playback Function Projection Playback Function Projection Playback Function Playback Func	CVBS Camera	PAL/NTSC		Play Pauco Stop Powind Fast play Slaw Play Novt File
Audio Info	IP Camera Input	8+4/16+8 Channel, each channel up to 8MP	Playback Function	Previous File, Next Camera, Previous Camera, Full Screen,
Storage Storage Internal HDD 2 SATA Ports, up to 8TB capacity for each disk EsATA N/A N/A M/A M/	Audio In/Out	1/1, RCA		Repeat, Shuffle, Backup Selection, Digital Zoom
Compression	Two-way Talk	Reuse audio in/out, RCA	Backup Mode	USB Device/Network
Resolution 4K, SMP, 4MP, 3MP, 1080P, 720P, 960H, D1, CIF, QCIF	Recording		Storage	
Main stream: 4K[1-7fps]; 5MPI*-12fps]; 4MPJ3MP[1-15fps]; Substream: 5MPI*-12fps]; 4MPJ3MP[1-15fps]; USB 2USB Ports (1 USB 2.0., 1 USB 3.0)	Compression	H.264+/H.264	Internal HDD	2 SATA Ports, up to 8TB capacity for each disk
Substram@SGH(115/26/26/26/26) Substram@SGH(115/26/26/26) Substram@SGH(115/26/26/26) Substram@SGH(115/26/26) Substram@SGH(115/26/26/26) Substram@SGH(115/26/26/26) Substram@SGH(115/26/26/26) Substram@SGH(115/26/26/26) Substram@SGH(115/26/26/26) Substram@SGH(115/26/26/26) Substram@SGH(115/26/26/26/26/26/26/26/26/26/26/26/26/26/	Resolution	4K, 5MP, 4MP, 3MP, 1080P, 720P, 960H, D1, CIF, QCIF	eSATA	N/A
USB 2USP Ports (1 USB 2.0, 1 USB 3.0)		Main stream: 4K(1~7fps); 5MP(1~12fps); 4MP/3MP(1~15fps);	Auxiliary Interface	
D1/ClF/QClF[1"25/30fps] R5232 N/A R524 N/A	Record Rate		USB	2USB Ports (1 USB 2.0 . 1 USB 3.0)
Record Mode				
Record Mode 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 Interface 1 HDMI, 1 VGA HDMI:3840×2160, 2560×1440, 1920×1080, 1280×1024, 1280×720, 1024×768 Resolution VGA: 1920×1080, 1280×1024, 1280×720, 1024×768 Multi-screen Display When IP extension mode not enabled: 8CH: 1/4/8/9/16 When IP extension mode enabled: 8CH: 1/4/8/9/16 GH: 1/4/8/9/16/16 GH: 1/4/8/9/16/25 OSD Camera title, Time, Video loss, Camera lock, Motion detection, Recording Third-party Support Network Interface 1 RI-45 Port (1000M) Third-party Support Third-party Support Third-party Support Certifications FCC: Part 15 Subpart B	Bit Rate	1Kbps ∼ 6144Kbps Per Channel	RS485	1 Port, for PTZ Control
Record Mode 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 Interface 1 HDMI, 1 VGA HDMI:3840×2160, 2560×1440, 1920×1080, 1280×1024, 1280×720, 1024×768 Resolution VGA: 1920×1080, 1280×1024, 1280×720, 1024×768 Multi-screen Display When IP extension mode not enabled: 8CH: 1/4/8/9/16 When IP extension mode enabled: 8CH: 1/4/8/9/16 GH: 1/4/8/9/16/16 GH: 1/4/8/9/16/25 OSD Camera title, Time, Video loss, Camera lock, Motion detection, Recording Third-party Support Network Interface 1 RI-45 Port (1000M) Third-party Support Third-party Support Third-party Support Certifications FCC: Part 15 Subpart B		Manual. Schedule (Regular. Continuous). MD (Video	Flectrical	
Record Interval 1 ~ 60 min (default: 60 min), Pre-record: 1 ~ 30 sec, Post-record: 10 ~ 300 sec Power Consumption <15W (Without HDD) Construction Dimensions 1U, 375mm×287mm×53mm (14.8" x 11.3" x 2.1") Net Weight 2.35kg (5.2 lb) (without HDD) Gross Weight 3.2kg (7.05lb) When IP extension mode not enabled: 8CH: 1/4/8/9 16CH: 1/4/8/9/16 When IP extension mode enabled: 8CH: 1/4/8/9/16 When IP extension mode enabled: 8CH: 1/4/8/9/16 When IP extension mode enabled: 8CH: 1/4/8/9/16 Sort 2.14/8/9/16 Gross Weight 3.2kg (7.05lb) 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 Network Interface 1 RJ-45 Port (1000M) HTTP, TCP/IP, IP-4/IP-6, UP-P, 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 FCC: Part 15 Subpart B Third-party Entry Endogs -1/IEC 60950-1 CE-CE-LVD: EN 60950-1/IEC 60950-1 CE-ENC: EN 61000-3-2, EN 61000-3-3, EN 55032, EN 50130, E	Record Mode	detection: Motion Detection, Video Loss, Tampering), Alarm,		·
Interface 1 HDMI, 1 VGA Dimensions 1U, 375mm×287mm×53mm (14.8" x 11.3" x 2.1") Resolution 2180×720, 1024×768 When IP extension mode not 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), 0~ 90% RH Network 318.45 Port (1000M) Network 418.45 Port (1000M) Matureface 1 R1-45 Port (1000M) HTTP, TCP/IP, IP-VA/IPV6, UPPR, 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 5 Smart Phone IPhone, IPad, Android ONVIF 2.42, CGI Conformant Canada Ca	Record Interval		Power Consumption	
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Resolution 1280x720, 1024x768 VGA: 1920x1080, 1280x1024, 1280x720, 1024x768 Installation Desktop installation	Interface	1 HDMI, 1 VGA	Dimensions	1U, 375mm×287mm×53mm (14.8" x 11.3" x 2.1")
When IP extension mode not enabled: 8CH: 1/4/8/9 Multi-screen Display When IP extension mode not enabled: 8CH: 1/4/8/9/16 When IP extension mode enabled: 8CH: 1/4/8/9/16 When IP extension mode enabled: 8CH: 1/4/8/9/16 16CH: 1		HDMI:3840×2160, 2560×1440, 1920×1080, 1280×1024,	Net Weight	2.35kg (5.2 lb) (without HDD)
When IP extension mode not enabled: 8CH: 1/4/8/9 16CH: 1/4/8/9/16 When IP extension mode enabled: 8CH: 1/4/8/9/16 When IP extension mode enabled: 8CH: 1/4/8/9/16 When IP extension mode enabled: 8CH: 1/4/8/9/16 Storage Conditions -10°C ~ +55°C (+14°F ~ +131°F), 0~ 90% RH Operating Conditions -20°C ~ +70°C (-4°F ~ +158°F), 0~ 90% RH Third-party Support Network Interface 1 RJ-45 Port (1000M) HTTP, TCP/IP, IPv4/IPv6, UPnP, RTSP, UDP, SMTP, NTP, DHCP, DNS, IP Filter, PPP6_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 Interoperability ONVIF 2.42. CGI Conformant Interoperability Installation Desktop installation Environmental Operating Conditions -10°C ~ +55°C (+14°F ~ +131°F), 0~ 90% RH Dahua, Arecont Vision, AXIS, Bosch, Brickcom, Canon, CP Plu 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: CE-LVD: EN 60950-1/IEC 60950-1 CE: EMC: EN 61000-3-3, EN 55032, EN 50130,	Resolution		Gross Weight	3.2kg (7.05lb)
Multi-screen Display **BCH: 1/4/8/9 16CH: 1/4/8/9/16 When IP extension mode enabled: 8CH: 1/4/8/9/16 16CH:			Installation	Desktop installation
When IP extension mode enabled: 8CH: 1/4/8/9/16/25 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 Storage Conditions -20°C ~ +70°C (-4°F ~ +158°F), 0~ 90% RH Third-party Support Network Interface 1 RJ-45 Port (1000M) HTTP, TCP/IP, IPv4/IPv6, UPnP, RTSP, UDP, SMTP, NTP, DHCP, DNS, IP Filter, PPP6E,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 Operating Conditions -10°C ~ +55°C (+14°F ~ +131°F), 0~ 90% RH -10°C ~ +55°C (+14°F ~ +131°F), 0~ 90% RH -10°C ~ +55°C (+14°F ~ +131°F), 0~ 90% RH -10°C ~ +55°C (+14°F ~ +131°F), 0~ 90% RH -10°C ~ +55°C (+14°F ~ +131°F), 0~ 90% RH -10°C ~ +55°C (+14°F ~ +131°F), 0~ 90% RH -10°C ~ +55°C (+14°F ~ +131°F), 0~ 90% RH -10°C ~ +55°C (+14°F ~ +131°F), 0~ 90% RH -10°C ~ +55°C (+14°F ~ +131°F), 0~ 90% RH -10°C ~ +55°C (+14°F ~ +131°F), 0~ 90% RH -10°C ~ +55°C (+14°F ~ +131°F), 0~ 90% RH -10°C ~ +55°C (+14°F ~ +131°F), 0~ 90% RH -10°C ~ +55°C (+14°F ~ +131°F), 0~ 90% RH -10°C ~ +55°C (+14°F ~ +131°F), 0~ 90% RH -10°C ~ +55°C (+14°F ~ +131°F), 0~ 90% RH -10°C ~ +55°C (+14°F ~ +131°F), 0~ 90% RH -10°C ~ +55°C (+14°F ~ +131°F), 0~ 90% RH -10°C ~ +55°C (+14°F ~ +131°F), 0~ 90% RH -10°C ~ +55°C (+14°F ~ +131°F), 0~ 90% RH -10°C ~ +55°C (+14°F ~ +158°F), 0~ 90% RH -10°C ~ +55°C (+14°F ~ +131°F), 0~ 90% RH -10°C ~ +55°C (+14°F ~ +131°F), 0~ 90% RH -10°C ~ +55°C (+14°F ~ +131°F), 0~ 90% RH -10°C ~ +55°C (+14°F ~ +131°F), 0~ 90% RH -10°C ~ +55°C (+14°F ~ +131°F), 0~ 90% RH -10°C ~ +55°C (+14°F ~ +131°F), 0~ 90% RH -10°C ~ +55°C (+14°F ~ +131°F), 0~ 90% RH -10°C ~ +55°C (+14°F ~ +131°F), 0~ 90% RH -10°C ~ +55°C (+14°F ~ +131°F), 0~ 90% RH -10°C ~ +55°C (+14°F ~ +131°F), 0~ 90% RH -10°C ~ +158°F, 0~ 90	Multi caraca Dianlas	8CH: 1/4/8/9	Environmental	
Camera title, Time, Video loss, Camera lock, Motion detection, Recording Third-party Support Third-party Support Third-party Support Dahua, Arecont Vision, AXIS, Bosch, Brickcom, Canon, CP Plu Dynacolor, Honeywell, Panasonic, Pelco, Samsung, Sanyo, Sony, Videotec, Vivotek, and more 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 FCC: Part 15 Subpart B Smart Phone iPhone, iPad, Android CE: CE-LVD: EN 60950-1/IEC 60950-1 CE-EMC: EN 61000-3-2, EN 61000-3-3, EN 55032, EN 50130,	iviuiti-screen Display		Operating Conditions	-10°C ~ +55°C (+14°F ~ +131°F), 0~ 90% RH
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Smart Phone iPhone, iPad, Android CE: CE-LVD: EN 60950-1/IEC 60950-1 Interoperability ONVIF 2.42. CGI Conformant CE-EMC: EN 61000-3-2, EN 61000-3-3, EN 55032, EN 50130,	Network Function	DNS, IP Filter, PPPoE, DDNS, FTP, Alarm Server, P2P, IP Search	Certifications	son, needed, meter, and more
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 50130,	Max. User Access	128 users		FCC: Part 15 Subpart B
Interoperability ONVIF 2.42. CGI Conformant Ce-EMC: EN 61000-3-2, EN 61000-3-3, EN 55032, EN 50130,	Smart Phone	iPhone, iPad, Android		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 50130,

Pro Series | CSP-8/16PRO.4KLL

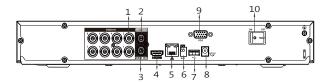
Ordering Information				
Туре	Part Number Description			
8/16 Channel	CSP-8PRO.4KL	8 Channel Penta-brid 4K 1U Digital Video Recorder		
XVR	CSP-16PRO.4KL	16 Channel Penta-brid 4K 1U Digital Video Recorder		

Dimensions (mm)



Rear Panel

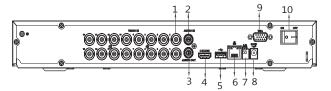
CSP-8PRO.4KL



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

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CSP-16PRO.4KL



- 1 VIDEO IN
- 6 Network Interface
- 2 AUDIO IN, RCA Connector
- 7 RS485 Interface
- 3 AUDIO OUT, RCA Connector
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