

CSP-XTRPOE16-4KS

16 Channel 1.5U 4HDDs 16PoE 4K & H.265 Lite Network Video Recorder



"EXTREME SERIES" NVR



-BLUE LINE

CSP-XTRPOE16-4KS network video recorder delivers excellent performance and high recording quality that is ideally suitable for IP video surveillance applications. This professional NVR adopts powerful processor, providing the capability of 4K resolution processing for applications where image details are highly required. Additionally, the NVR can be served as edge storage, central storage or backup storage with an intuitive shortcut operation menu for remote management and control.

Series Overview

The NVR is compatible with numerous third-party devices, which make it the perfect solution for surveillance systems that work independently of video management system (VMS). It features an open architecture that supports multi-user access and is compatible with ONVIF 2.4 protocol, enabling interoperability with 4K cameras.

Functions

Perimeter Protection by Camera

Automatically filters out false alarms caused by animals, rustling leaves, bright lights, and more. Enables system to act secondary recognition for the targets. Improving alarm accuracy.

SMD Plus by Camera

With intelligent algorithm, Smart motion detection technology can categorize the targets that trigger motion detection and filter the motion detection alarm triggered by non-concerned targets to realize effective and accurate alarm.

People Counting by Camera

With deep learning algorithm, People Counting technology can track and process moving human body targets to realize the accurate statistics of enter No., leave No., and In Area No. Working with management platform, it outputs yearly/monthly/weekly/daily reports to meet your requirements.

- · 16 channel IP video access
- Smart H.265+/Smart H.264+/H.265/H.264; H.265 auto switch
- · Max 200 Mbps incoming bandwidth
- Up to 8MP resolution for preview and playback
- · 8-channel decoding@1080p (30 fps)
- Al by Camera: Perimeter protection; SMD Plus; people counting; heat map
- · Support IPC UPnP, 16 PoE ports











Smart Codec

With advanced scene-adaptive rate control algorithm, Smart codec technology realizes the higher encoding efficiency than H.265 and H.264, provides high-quality video, and reduces the cost of storage and transmission.

ANR (Automatic Network Replenishment Technology)

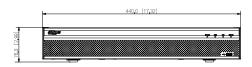
Video record in SD card in IP cameras when the network breaks down, and after the network recovered, the video will be transferred to device and then recorded in it.

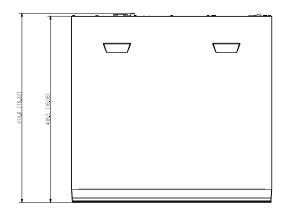
DMSS

The DMSS app is available on the iOS App Store and Google Play. It makes surveillance easy and simple, allowing you to remotely access back-end devices, view live video, receive event push notifications, and search for recorded videos from an iPhone, iPad, or Android phone at anytime from virtually anywhere.

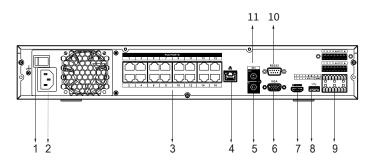
System	Technical Specification		Storage	
Operating System Probrided into a General Alarm Motion differency antway missing video loss into alarm. PC data in a family Completed interface Motion differency antway missing video loss into alarm. PC data in a family per per per missing video loss into alarm. PC data in a family per	System		Disk Group	Yes
Department refrace	Main Processor	Industrial embedded micro-processor	Alarm	
Perimeter Protection by Camera	Operating System	Embedded Linux	General Alarm	
Performance 16 channels Search for pictures by channel, time and event type SMD Plus by Carmera			Anomaly Alarm	conflict; MAC conflict; login lock; network security
Alsearch Search for pictures by channel, time and event type SMD Plus by Camera	·		Intelligent Alarm	Perimeter protection; SMD; people counting; heat
Marth Lineage Buzzer, lop, preset, email	Al Search	Search for pictures by channel, time and event type	-	
Addioinput	SMD Plus by Camera			
AS Search Search by target classification (human, vehicle) Audio Output 1 channel, RCA connector, which support voice intercon output Video 4.5C48 4.5	Performance	16 channels		
	Al Search	Search by target classification (human, vehicle)	Audio Input	
Access Channel 16 HDD maximum HDD capacity varies with environment temperature Network Bandwidth 200 Mbps for access, 200 Mbps for storage and 96 Mbps (or forwarding) Alarm Input 16 channels Resolution 8MP, 6MP, 5MP, 5MP, 3MP, 1080p, 1:3MP, 720p, DL, and more Alarm Output 4 channels Decoding Capability 8 channels@1080p (30 fps) RS-232 1 channel, used to debug and pass through serial data and more Multi-screen Display 1 G-channel: 1/4[8/9/16 USB 1 front USB 2.0 port, 1 rear USB 3.0 port Multi-screen Display 1 G-channel: 1/4[8/9/16 USB 1 front USB 2.0 port, 1 rear USB 3.0 port Third Party Camer Access NoW, Cannon and more WEB Association, Sony, Somsung, Axis, Pelco, Arecont, Own, Early Control (100 Mbps) and the port Not Work 1 Video Smart H 266+; Smart H 264+; H.265; H.264 Network 1 ftp orts (IEEE802 3at/4f) Not Work Network HTTP; HTTP; TEPP; IPPA/Piv6; UPB-; SMMP; RTSP; VPP, SMMP; RTSP; PPP, PPMP; SMMP; RTSP; PPMP; PPMP; SMMP;	Video		Audio Output	
Resolution Mbps for forwarding Alarm Input 16 channels	Access Channel		HDD	maximum HDD capacity varies with environment
Decoding Capability Schannels@1080p (30 fps) RS-232 1 channel, used to debug and pass through serial data 1 channel, used to certain place of the bug and pass through serial data 1 channel, used to certain place of the bug and pass through serial data 1 channel, used to centrol PTZ, and it supports multiple protocols RS-485 1 channel, used to centrol PTZ, and it supports multiple protocols RS-485 1 channel, used to centrol PTZ, and it supports multiple protocols RS-485 1 channel, used to centrol PTZ, and it supports multiple protocols RS-485 1 channel, used to centrol PTZ, and it supports multiple protocols RS-485 1 channel, used to centrol PTZ, and it supports multiple protocols RS-485 1 channel, used to centrol PTZ, and it supports multiple protocols 1 channel, used to centrol PTZ, and it supports multiple protocols 1 channel, used to centrol PTZ, and it supports multiple protocols 1 channel, used to centrol PTZ, and it supports multiple protocols 1 channel, used to centrol PTZ, and it supports multiple protocols 1 channel, used to centrol PTZ, and it supports multiple protocols 1 channel, used to debug and pass through serial data and the supports multiple protocols 1 channel, used to debug and pass through serial data and the supports multiple protocols 1 channel, used to centrol PTZ, and it supports multiple protocols 1 channel, used to centrol PTZ, and it supports multiple protocols 1 channel, used to centrol PTZ, and it supports multiple protocols 1 channel, used to centrol PTZ, and it supports multiple protocols 1 channel, used to centrol PTZ, and it supports multiple protocols 1 channel, used to centrol PTZ, and it supports multiple protocols 1 channel, used to centrol PTZ, and it supports multiple protocols 1 channel, used to centrol PTZ, and it supports multiple protocols 1 channel, used to centrol PTZ, and it supports multiple protocols 1 channel, used to centrol PTZ, and it supports and it supports 1 channel, used to centrol	Network Bandwidth		Alarm Input	16 channels
Video Output HOMI: 3840 x 2160; 1920 x 1080; 1280 x 1024; 1280 x 720 KS-485 1 channel, used to control PTZ, and it supports multiple protocols Multi-screen Display 16 channel: 1/4/8/9/16 USB 1 front USB 2.0 port, 1 rear USB 3.0 port HDMI	Resolution		Alarm Output	4 channels
Multi-screen Display 1280 × 720	Decoding Capability	8 channels@1080p (30 fps)	RS-232	
Multi-screen Display Panasonic, Sony, Samsung, Axis, Pelco, Arecont, ONVIF, Canon and more Panasonic, Sony, Samsung, Axis, Pelco, Arecont, ONVIF, Canon and more Video Smart H.265+; Smart H.264+; H.265; H.264 Audio PCM; G.711A; G.711U; G.726 Network HTTP; HTTPS; TCP/IP; IPW4/IPw6; UPnP; SMMP; RTSP; UDP; SMTP; NTP; DHCP; DNS; IP Tile; DNS; FTP; PAlms Server; IP Search (supports ONVIF IP camera, DVR, NVS, and more); P2P Mobile Phone Access Android; IOS Browser Chrome; IE9 or later; Firefox Multi-channel Playback Multi-channel Playback Multi-channel Playback Multi-channel Playback Manual; schedule (general; MD; alarm; MD & alarm; intelligent) Storage Method Local HDD and network Backup Lysia pase; stop; fast forward; fast backward; rewind; play by frame 1. Play; pause; stop; fast forward; fast backward; rewind; play by frame 2. Fell Storage backy (cut/file); partially enlarge; Certifications HDMI VGA 1. Rv4 vid 1. 1 Network Network Network Poe 16 ports (IEEE802.3at/af) Poe 16 ports (IE	Video Output	1280 × 720	RS-485	
Third Party Camera Access Panasonic, Sony, Samsung, Axis, Pelco, Arecont, ONVIF, Canon and more Video Smart H.265+; Smart H.264+; H.265; H.264 Audio PCM; G.7111; G.7111; G.726 Network Now, N.75, and more; P.2P Alarm Server; P. Search (supports ONVIF IP camera, DVR, NVS, and more); P.2P Mobile Phone Access Android; IOS Nov, NVS, and more); P.2P Nover Supply Single, 100V-240V AC, 50 Hz-60 Hz NVR. < 13.7W (without HDD) Poe: Max 25.5W for single port, 150W in total NVR, V13.7W (without HDD) Nover Consumption Nover Consumption Nover Consumption Nover (10.61%) (without HDD) Nover Weight A.7 kg (10.4lb) (without HDD) For Sweight Nover (10.4lb) (without HDD) Product Dimensions Adolom × 414.6 mm × 76.0 mm (17.3" × 16.3" × 3.0") Record Playback Multi-channel Playback Multi-channel Playback Manual; schedule (general; MD; alarm; MD & alarm; intelligent) Storage Method Local HDD and network Backup USB device Operating Humidity Nover Consumption Nover (10.4lb) (without HDD) Product Dimensions 440.0 mm × 414.6 mm × 76.0 mm (17.3" × 16.3" × 3.0") Storage Temperature -10"C to +55"C (+14"F to +131"F) Storage Temperature -10"C to +55"C (+14"F to +131"F) Operating Humidity 10%-93% (RH) Storage Humidity 30%-85% (RH) Operating Altitude 3,000 m (9,843 ft) CE: ENS5032; ENS5032; ENS50130-4; EN60950-1 For Policy Po	Multi-screen Display	16-channel: 1/4/8/9/16	USB	1 front USB 2.0 port, 1 rear USB 3.0 port
Compression Video Smart H.265+; Smart H.264+; H.265; H.264 Audio PCM; G.711A; G.711U; G.726 Network Network Network Network Protocol Nobje Protocol No	Third Party Camera Access		HDMI	1
Video Smart H.265+; Smart H.264+; H.265 H.264 Audio PCM; G.711A; G.711U; G.726 Network Network Network Network Protocol Network Protocol Now, Now, Smart H.265+; Smart H.264+; H.265 H.264 Network Protocol Network Protocol Network Protocol Now, Now, Smart H.264+; H.265 H.264 Network Protocol Network Protocol Now, Now, Smart H.264+; H.265+; H.264 Nower Supply Nower Consumption Now, Now, Consumption		ONVIF, Canon and more	VGA	1
Audio PCM; G.711A; G.711U; G.726 Network Network Protocol HTTP; HTTPS; TCP/IP; IPv4/IPv6; UPnP; SNMP; RTSP; UPP; SMTP; NTP; DHCP; DNS; IP Filter; DDNS; FTP; Alarm server; IP Search (supports ONVIF IP camera, DVR, NVS, and more); P2P Mobile Phone Access Android; iOS Interoperability ONVIF (profile T/S/G); CGI; SDK Browser Chrome; IE9 or later; Firefox Record Playback Multi-channel Playback 1/4/9/16 Record Mode Manual; schedule (general; MD; alarm; MD & alarm; intelligent) Storage Method Local HDD and network Playback Function 1. Play; pause; stop; fast forward; fast backward; rewind; play by frame 2. Full screen; backup (cut/file); partially enlarge; Partially enlarge; Product Directions Proved Pack (Service) and part 18, MNSI C63.4-2014 Poperating Altitude Single Ports (IEEE802.3at/af) Power Consumption NVR: < 13.7W (without HDD) Net Weight 4.7k g (10.4lb) (without HDD) Net Weight 7.5k g (16.5 lb) (without HDD) Advancy 25.5W for single port, 150W in total Poper. More Advancy (without HDD) Poer Consumption NVR: < 13.7W (without HDD) Net Weight 4.7k g (10.4lb) (without HDD) Fores: Max 25.5W for single port, 150W in total Poper. More Advancy (without HDD) Poer: Max 25.5W for single port, 150W in total Poper. More Advancy (without HDD) Net Weight 4.7k g (10.4lb) (without HDD) Fores: Max 25.5W for single port, 150W in total Poper. More Advancy (without HDD) Poer: Max 25.5W for single port, 150W in total Poper. More Advancy (without HDD) Poer: Max 25.5W for single port, 150W in total Poper. More Advancy (without HDD) Poer: Max 25.5W for single port, 150W in total Poper. More Advancy (without HDD) Poer: Max 25.5W for single port, 150W in total Poper. More Advancy (without HDD) Poer: Max 25.5W for single port, 150W in total Poper. More Advancy (without HDD) Poer: Max 25.5W for single port, 150W in total Poper. More Advancy (without HDD) Poer: Max 25.5W for single port Advancy (without HDD) Poer: Max 25.5W for single port Advancy (without HDD) Poer: Max 25.5W for single port Advancy (withou			Network	
Network Network Protocol Android; IOS Interoperability ONVIF (profile T/S/G); CGI; SDK Record Playback Multi-channel Playback Manual; schedule (general; MD; alarm; MD & alarm; intelligent) Storage Method Local HDD and network Playback Function Power Supply Single, 100V-240V AC, 50 Hz-60 Hz Power Consumption NVR: < 13.7W (without HDD) Not Weight A.7 kg (10.4lb) (without HDD) Net Weight A.7 kg (10.4lb) (without HDD) Net Weight A.7 kg (10.4lb) (without HDD) Poc: Max 25.5W for single port, 150W in total Not Weight A.7 kg (10.4lb) (without HDD) Poc: Max 25.5W for single port, 150W in total Not Weight A.7 kg (10.4lb) (without HDD) Poc: Max 25.5W for single port, 150W in total Not Weight A.7 kg (10.4lb) (without HDD) Poc: Max 25.5W for single port, 150W in total Not Weight A.7 kg (10.4lb) (without HDD) Poc: Max 25.5W for single port, 150W in total Not Weight A.7 kg (10.4lb) (without HDD) Poc: Max 25.5W for single port, 150W in total Not Weight A.7 kg (10.4lb) (without HDD) Poc: Max 25.5W for single port, 150W in total Not Weight A.7 kg (10.4lb) (without HDD) Poc: Max 25.5W for single port, 150W in total Not Weight A.7 kg (10.4lb) (without HDD) Poc: Max 25.5W for single port, 150W in total Not Weight A.7 kg (10.4lb) (without HDD) Poc: Max 25.5W for single port, 150W in total Not Weight A.7 kg (10.4lb) (without HDD) Poc: Max 25.5W for single port, 150W in total Power Consumption NVR: < 13.7W (without HDD) Not Weight A.7 kg (10.4lb) (without HDD) Poc: Max 25.5W for single port, 150W in total Not Weight A.7 kg (10.4lb) (without HDD) Poc: Max 25.5W for single port, 150W in total Not Weight A.7 kg (10.4lb) (without HDD) Poc: Max 26.5W for single port, 150W in total Not Weight A.7 kg (10.4lb) (without HDD) Poc was 26.5W for single port, 150W in the total Not Weight A.7 kg (10.4lb) (without HDD) Poc was 26.5W for single port, 150W in total Not Weight A.7 kg (10.4lb) (without HDD) Poc was 26.5W for single port, 150W in the total A.7 kg (10.4lb) (without HD			PoE	16 ports (IEEE802.3at/af)
Network Protocol HTTP; HTTPS; TCP/IP; IPv4/IPv6; UPnP; SNMP; RTSP; UDP; SMTP; NTF; DHCP; DNS; IP Filter; DDNS; FTP; Alarm Server; IP Search (supports ONVIF IP camera, DVR, NVS, and more); P2P Mobile Phone Access Android; IOS Interoperability ONVIF (profile T/S/G); CGI; SDK Browser Chrome; IE9 or later; Firefox Multi-channel Playback Multi-channel Playback I/4/9/16 Record Mode Access Method Local HDD and network Backup USB device Playback Function HTTP; HTTPS; TCP/IP; IPv4/IPv6; UPnP; SNMP; RTSP; UDP; SNMP; RTSP; UDP; SNMP; RTSP; UDP; SNMP; RTSP; UDP; SNMP; RTSP; DHCP; DNS; IP Filter; DDNS; FTP; Alarm Server; IP Search (supports ONVIF IP camera, DVR, NVS, and more); P2P Power Consumption NVR: < 13.7W (without HDD) Net Weight 4.7 kg (10.4lb) (without HDD) Gross Weight 7.5 kg (16.5 lb) (without HDD) H40.0 mm × 414.6 mm × 76.0 mm (17.3" × 16.3" × 3.0") 3.0") Poduct Dimensions S22 mm × 492 mm × 200 mm (20.6" × 19.4" × 7.9") Operating Temperature 10°C to +55°C (+14°F to +131°F) Operating Humidity 10%-93% (RH) Storage Humidity 30%-85% (RH) Poperating Altitude 3,000 m (9,843 ft) Poperating Altitude CE: ENS5032; ENS5024; ENS50130-4; EN60950-1 FCC: Part 15 Subpart B; ANSI CG3.4-2014		PCM; G.711A; G.711U; G.726	General Parameter	
Network Protocol UDP; SMTP; NTP; DHCP; DNS; IP Filter; DDNS; FTP; Alarm Server; IP Search (supports ONVIF IP camera, DVR, NVS, and more); P2P Mobile Phone Access Android; IOS Interoperability ONVIF (profile T/S/G); CGI; SDK Browser Chrome; IE9 or later; Firefox Record Playback Multi-channel Playback Multi-channel Playback Manual; schedule (general; MD; alarm; MD & alarm; intelligent) Storage Method Local HDD and network Backup USB device Playback Function UDP; SMTP; NTP; DHCP; DNS; IP Filter; DDNS; FTP; Alarm SONVIF IP camera, DVR, NVS, and more); P2P Net Weight 4.7 kg (10.4lb) (without HDD) Gross Weight 7.5 kg (16.5 lb) (without HDD) Product Dimensions 440.0 mm × 414.6 mm × 76.0 mm (17.3" × 16.3" × 3.0") Package Dimensions 522 mm × 492 mm × 200 mm (20.6" × 19.4" × 7.9") Operating Temperature -10*C to +55*C (+14*F to +131*F) Storage Temperature O*C to +40*C (+32*F to +104*F) Operating Humidity 10%–93% (RH) Storage Humidity 30%–85% (RH) Operating Altitude Operating Altitude Playback Function CE: ENS5032; ENS5034; ENS5030-4; ENS60950-1 FCC: Part 15 Subpart B; ANSI C63.4-2014	Network	LITTE LITTES TODAY IS AND CAUSE OF CHARLES	Power Supply	Single, 100V–240V AC, 50 Hz–60 Hz
Mobile Phone Access Android; iOS Interoperability ONVIF (profile T/S/G); CGI; SDK Browser Chrome; IE9 or later; Firefox Multi-channel Playback Multi-channel Playback Record Mode Manual; schedule (general; MD; alarm; MD & alarm; intelligent) Storage Method Local HDD and network Backup USB device Playback Function Net Weight 4.7 kg (10.4lb) (without HDD) 7.5 kg (16.5 lb) (without HDD) 440.0 mm × 414.6 mm × 76.0 mm (17.3" × 16.3" × 3.0") Advioum × 492 mm × 200 mm (20.6" × 19.4" × 7.9") Package Dimensions 522 mm × 492 mm × 200 mm (20.6" × 19.4" × 7.9") Operating Temperature 10°C to +55°C (+14°F to +131°F) Storage Temperature 0°C to +40°C (+32°F to +104°F) Operating Humidity 10%-93% (RH) Storage Humidity 30%-85% (RH) Operating Altitude 2. Full screen; backup (cut/file); partially enlarge; Certifications Certifications Certifications	Network Protocol	UDP; SMTP; NTP; DHCP; DNS; IP Filter; DDNS; FTP; Alarm Server; IP Search (supports ONVIF IP camera,	Power Consumption	
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Browser Chrome; IE9 or later; Firefox Package Dimensions 440.0 mm × 414.6 mm × 76.0 mm (17.3" × 16.3" × 3.0") Record Playback Package Dimensions 522 mm × 492 mm × 200 mm (20.6" × 19.4" × 7.9") Multi-channel Playback 1/4/9/16 Operating Temperature -10°C to +55°C (+14°F to +131°F) Storage Temperature 0°C to +40°C (+32°F to +104°F) Operating Humidity 10%–93% (RH) Storage Method Local HDD and network Storage Humidity 30%–85% (RH) Backup USB device Operating Altitude 3,000 m (9,843 ft) Playback Function 1. Play; pause; stop; fast forward; fast backward; rewind; play by frame 2. Full screen; backup (cut/file); partially enlarge; Certifications Certifications Certifications			Gross Weight	7.5 kg (16.5 lb) (without HDD)
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Storage Humidity 30%–85% (RH) Backup USB device Operating Altitude 1. Play; pause; stop; fast forward; fast backward; rewind; play by frame 2. Full screen; backup (cut/file); partially enlarge; Certifications CE: EN55032; EN55024; EN50130-4; EN60950-1 FCC: Part 15 Subpart B; ANSI C63.4-2014	Storage Method		Operating Humidity	10%-93% (RH)
Operating Altitude 3,000 m (9,843 ft) 1. Play; pause; stop; fast forward; fast backward; rewind; play by frame 2. Full screen; backup (cut/file); partially enlarge; Certifications CE: EN55032; EN55024; EN50130-4; EN60950-1 FCC: Part 15 Subpart B; ANSI C63.4-2014	-		Storage Humidity	30%-85% (RH)
Playback Function rewind; play by frame CE: EN55032; EN55034; EN50130-4; EN60950-1 Certifications CC: Ent55032; EN55034; EN50130-4; EN60950-1 FCC: Part 15 Subpart B; ANSI C63.4-2014	Dackup		Operating Altitude	3,000 m (9,843 ft)
	Playback Function	rewind; play by frame 2. Full screen; backup (cut/file); partially enlarge;	Certifications	FCC: Part 15 Subpart B; ANSI C63.4-2014

Dimensions (mm[inch])





Panels



- 1 Power Switch
- 3 PoE Ports
- 5 AUDIO IN, RCA Connector
- 7 HDMI Port
- 9 Alarm In/Out
- 11 AUDIO OUT, RCA Connector
- 2 Power Input
- 4 Network Port
- VGA Port
- 8 USB Port
- 10 RS-232 Port