

CP-UNR-4K5164-16EV2

16Ch. 4K AI Network Video Recorder with 16PoE Ports

- 16 Channel IP video access
- Instastream /H.265/Smart H.264+ /H.264/MJPEG
- Max 320 Mbps incoming bandwidth
- Up to 24MP resolution for live view and playback
- 1-channel fisheye dewarping (AI by NVR)
- AI by Camera: Perimeter protection; face detection and recognition; SMD Plus; video metadata; ANPR; people counting; stereo analysis; crowd distribution; heat map
- Support 4 SATA HDDs up to 10TB each, 3 USB Ports
- 2 HDMI/ 2 VGA simultaneous video output
- Support Multi-brand network cameras
- Support IPC UPnP, 16 PoE ports
- Mobile Software: iCMOB, gCMOB
- CMS Software: KVMS Pro



System Overview

This highly intelligent video surveillance server is now combining the latest video management features to the authentic video storage functions within a single device, making this Series surpass all ordinary NVR products. This NVR works effectively in detecting and recognizing faces and can be installed in a wide-variety of situations. The deep learning artificial intelligence technology in this product uses the video image metadata technology, which offers you highly accurate face recognition and efficient perimeter protection at all times.

This product has been given the revolutionary UI design that allows you to operate and manage your device with increased ease and comfort, improving the value and experience of the surveillance conducted by you.



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Functions

Face Recognition By Camera

This technology is just the most proficient element of the current video surveillance industry as the NVRs that have been integrated with the real-time face recognition technology accurately detects facial attributes in the video stream in real-time. The technology analyzes every facial attribute ranging from gender, age, expression to wearing glasses, mask, and even mustaches.

ANPR Technology By Camera

The automatic number plate recognition technology is being widely used these days as this enables accurate, automatic reading of every vehicle's number plate that is crossing a border or an entrance and then automatically runs that number through the system to detect if the vehicle should be allowed to enter or not.

Instastream

This camera has been designed with the latest and most efficient innovation among the standard video compression designs. Smart encoding algorithms developed by CP PLUS help in saving up to 70% more bandwidth than H.265 along with making it more beneficial for minimizing bandwidth and storage costs. It enhances video coding efficiency while providing high resolution and the rate of frame in the video using Intelligent Region Perception to detect motion in each frame.

gCMOB/ iCMOB

Designed to allow users to access and control live streaming from CP PLUS IP Cameras, DVRs/ NVRs and Video Door Phones, the CP PLUS gCMOB/ iCMOB application offers a host of features such as Easy GUI, up to 16 live viewing split-ups; InstaOn cloud support; Playback; digital zoom ins; two-way talk, and more.

KVMS Pro

The KVMS Pro is a hybrid security management software that allows the management of various surveillance devices such as cameras, DVRs/ NVRs, encoders/ decoders, etc. It is released with the surveillance hardware and exclusively supports CP PLUS devices.

About CP PLUS

The brand that is on its way to lead the world when it comes to the security and surveillance industry, CP PLUS, keeps bombarding the market with the most reliable range of products that have been designed carefully and methodically to automate the whole surveillance and security process, no matter how big your premises are.

It was the initiative to help the public in the area where they are the most vulnerable and to empower the sense of safety in our hearts that had conceptualized CP PLUS. And embarking on its mission to make the world a safer and more secure place has taken the brand's journey to unprecedented levels even when compared to international competitors.



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16Ch. 4K AI Network Video Recorder with 16PoE

Ports

Feature	Specification
Processor	Industrial embedded micro-processor
IP Camera Input	16 channel
Operating System	Embedded LINUX
User Interface	Web; local GUI
Performance Perimeter Protection	16 channel
AI Search	Search for pictures by channel, time and event type
Face Recognition Performance	14 channels
Face Attributes	6 attributes: Gender; age; glasses; expression; mouth mask; beard
AI Search	Search for pictures by channel, time and face attributes
Compression	Instream/H.265/Smart H.264+/H.264/MJPEG
Video Output	HDMI1: 3840 × 2160; 1920 × 1080; 1280 × 1024; 1280 × 720 VGA1: 1920 × 1080; 1280 × 1024; 1280 × 720 HDMI2/VGA2: 1920 × 1080 VGA1/HDMI1 homologous output, VGA2/HDMI2 homologous output, and VGA1/HDMI1 and VGA2/HDMI2 supports heterogeneous output
Video Output	2 HDMI, 2 VGA
SMD Plus Performance	16 Channels
AI Search	Search by target classification (human, vehicle)
Video Metadata Performance	16 channels
Human Body	Top; top color; bottom; bottom color; hat; bag; gender; age; umbrella
Vehicle	Plate No.; type; color; vehicle type; logo; plate color; ornament; calling; seatbelt; region
Non-motor Vehicle	Type; color; number of passengers; helmet
AI Search	Supports searching for target video by metadata
Video Display Split	1/4/8/9/16

Feature	Specification
Performance ANPR	4 channels
Performance Stereo Analysis	16 channels
AI Search	Search by target classification (fall detection; people approach detection; people No. exception detection; people staying detection; violence detection)
Network Bandwidth	320 Mbps for access, 320 Mbps for storage and 320 Mbps for forwarding
Resolution	12MP, 8MP, 6MP, 5MP, 4MP, 3MP, 1080p, 1.3MP, 720p, D1, and more
Decoding Capability	16-channel@1080P (30 fps)
Multi-screen Display	1st Screen: 1/4/8/9/16 ; 2nd screen: 1/4/8/9/16
Audio Compression	PCM; G.711A; G.711U; G.726
Audio Input	1 channel, RCA connector
Audio Output	2 channels, RCA connector, which supports voice intercom output
Alarm Input	16 Channel
Alarm Output	6 Channel
Disk Group	Yes
General Alarm	Motion detection; privacy masking; video loss; local alarm; PIR alarm; IPC alarm
Anomaly Alarm	Camera offline; storage error; full storage; IP conflict; MAC conflict; login lock; network security anomaly
Intelligent Alarm	Perimeter protection; face detection; face recognition; SMD; video metadata (human; motor-vehicle; non-motor vehicle) ; ANPR; people counting; stereo analysis; crowd distribution; heat map
Alarm Linkage	Record; snapshot; IPC external alarm output; buzzer; log; preset; email
Smart Phone	iPhone, iPad, Android Phone
Hard Disk	4 SATA III ports, up to 10 TB for a single HDD. The maximum HDD capacity varies with environment temperature
Multi-channel Playback	1/4/9/16
Playback Function	1. Play; pause; stop; fast forward; fast backward; rewind; play by frame 2. Full screen; backup (cut/file) ; partially enlarge; audio on/off
Record Mode	Manual; schedule (general; MD; alarm; MD & alarm; intelligent; POS)
Storage Method	Local HDD and network

Feature	Specification
Backup	USB device
Interface Ports	3 USB Ports (1 front USB 2.0 port, 2 rear USB 3.0 ports), 1 RS232, 1 RS485
Ethernet	1 RJ-45 10/100/1000 Mbps self-adaptive Ethernet port , 1 eSATA Port
PoE	16 ports (IEEE802.3af/at) ; 1-8 ports support ePoE & EoC
Protocols	HTTP; HTTPS; TCP/IP; IPv4/IPv6; UPnP; SNMP; RTSP; UDP; SMTP; NTP; DHCP; DNS; IP Filter; PPPoE; DDNS; FTP; Alarm Server; IP Search; InstaOn; ONVIF (profile T/S/G); CGI; SDK
Power Supply	Single, 100V–240V AC, 50 Hz–60 Hz
Power Consumption	NVR: < 17.5W (without HDD) ; PoE: Max 25.5W for single port
Working Temperature	-10°C to +55°C (+14°F to +131°F)
Storage Temperature	0°C to +40°C (+32°F to +104°F)
Operating Altitude	3,000 m
Dimensions	440 mm × 412.2 mm × 76.0 mm (17.3" × 16.2" × 3.0")
Weight	4.65kg (without HDD)