

CP-UNR-4K6128R16-EI

128 Ch. 4K Network Video Recorder

- Up to 128 Channels IP camera input
- Max. 1280/1280/1024 Mbps Incoming/Recording/Outgoing bandwidth
- Support 16 SATA HDDs up to 20TB Each, 4 USB Ports
- Supports N+M cluster
- Support Raid 0/1/5/6/10
- Support Intellicheck with up to 64 Channels
- AI by NVR: 8 Channels face detection and recognition, Up to 40 face databases and 300,000 face images, 8 Channels metadata, 32 Channels perimeter protection, 32 Channels SMD+
- AI by Camera: Face detection and recognition, Perimeter protection, SMD+, Metadata, ANPR, Stereo analysis, Heat map, and people counting
- Mobile Software: iCMOB, gCMOB
- CMS Software: KVMS Pro Lite



System Overview

This NVR has gathered momentum across the globe for its outstanding performance and premium recording quality as it can be applied in any situation for IP video surveillance. This Series of NVRs supports the input, recording and transmission functions. Along with that, this NVR also enjoys the help of a built-in deep learning module as this product adopts the video image that is structured on deep learning algorithms. This NVR lets you achieve high-precision human face-recognition and efficient perimeter protection.

This product has been crafted to pay attention to what matters the most through applying deep learning artificial intelligence, which makes it fasten the event response time and helps in making the video more actionable.



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Functions

Face Recognition

This technology can be used to extract faces from a range of cameras and is capable of processing large quantities of faces in real-time or post-event and can provide alerts to help with access and authentication, border security, and crowd control.

Smart Motion Detection (SMD+)

CPPLUS has introduced Smart Motion Detection, AI-based SMD, which use an advanced algorithm to differentiate human and vehicular shapes within a scene and send alarms only when a person or vehicle is detected.

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.

Face Detection

With the help of the deep learning algorithm that is used in this technology, people can easily be detected, tracked, recorded, and captured. It takes only a second to detect one human face. Face detection is useful in cameras to help with auto-focus. This technology is mainly used to identify the presence of a human face.

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 Lite

The KVMS Pro Lite 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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Feature	Specification
Processor	Industrial-grade processor
IP Camera Input	128 Channels
Operating System	Embedded Linux
User Interface	Web, Local GUI
Video Output	<p>2 VGA, 4 HDMI; VGA: 1920 × 1080, 1280 × 1024, 1280 × 720; HDMI 1&2: 3840 × 2160, 1920 × 1080, 1280 × 1024, 1280 × 720; HDMI 3: 7680 × 4320, 3840 × 2160, 1920 × 1080, 1280 × 1024, 1280 × 720; HDMI 4: 1920 × 1080, 1280 × 1024, 1280 × 720 Simultaneous mode (Simultaneously outputs video sources for all the HDMI 1-4 and VGA 1-2 ports) Max. resolution of VGA 1 and VGA 2 is 1080p; Max. resolution of HDMI 1 and HDMI 2 is 4K; Max. resolution of HDMI 3 is 8K; Max. resolution of HDMI 4 is 1080p Heterogeneous mode (simultaneously outputs video sources for the VGA 1 and HDMI 1, or VGA 2 and HDMI 2. It also outputs heterogeneous video sources for HDMI 1-4) Max. resolution of VGA 1 and VGA 2 is 1080p; Max. resolution of HDMI 1, HDMI 2 and HDMI 3 is 4K; Max. resolution of HDMI 4 is 1080p</p>
Video Compression	Instream, H.265, H.264+, H.264
AI by Camera	Face detection, Face recognition, Video metadata (Human, Motor vehicles, and non-motor vehicles), Perimeter protection, SMD, Stereo analysis, Crowd distribution, People counting, ANPR, Heat map, PPE detection
AI by NVR	Face detection, Face recognition, Video metadata (Human, Motor vehicles, and non-motor vehicles), Perimeter protection, SMD+
ANPR by Camera (Number of Channels)	All Channels (64 targets/s)
License Plate Database Capacity	<p>1. Up to 20,000 plate numbers. 2. Blocklist and allowlist</p>
Perimeter Performance AI by NVR	<p>Simultaneous mode: 32 Channels, 10 IVS rules for each channel Heterogeneous mode: 24 Channels, 10 IVS rules for each channel Refer to the information on video output for details on the mode</p>
Perimeter Performance of AI by Camera	All Channels (64 targets/s)
SMD+ by Camera	All Channels (128 targets/s)

Feature	Specification
SMD+ by NVR	32 Channels: Secondary filtering for human and motor vehicle, Reducing false alarms caused by leaves, Rain and lighting condition change
Resolution	32MP, 24MP, 16MP, 12MP, 8MP, 6MP, 5MP, 4MP, 3MP, 1080p, 960p, 720p, D1, CIF
Audio Input	1 Channel RCA
Audio Output	2 Channel RCA
Audio Compression	G.711a, G.711u, PCM, G726, AAC
Face Attributes	6 attributes
Face Detection Performance of AI by NVR	Simultaneous mode: 8 Channels (up to 12 face images/s each channel) Heterogeneous mode: 5 Channels (up to 12 face images/s each channel) Refer to the information on video output for details on the mode
Face Detection Performance of AI by Camera	64 Channels
Face Recognition Performance AI by NVR	Simultaneous mode: 32 Channel FD (by camera) + FR (by recorder), Image stream: 32 face images/s, 8 Channel FD (by recorder) + FR (by recorder), Video stream: 16 face images/s Heterogeneous mode: 16 Channel FD (by camera) + FR (by recorder), Image stream: 16 face images/s, 5 Channel FD (by recorder) + FR (by recorder), Video stream: 10 face images/s Refer to the information on video output for details on the mode
Face Database Capacity	Up to 40 face databases with 300,000 images, with a total capacity of 48 G
Face Recognition Performance of AI by Camera	64 Channels
Metadata Performance of AI by NVR	8 Channels, 23 attributes extraction
Metadata Performance of AI by Camera	64 Channels
Multi-channel Playback	Up to 16 Channels
Decoding Capability	AI disabled: 2 Channel 32MP@30 fps, 2 Channel 24MP@30 fps, 4 Channel 16 MP@30 fps, 5 Channel 12MP@30 fps, 8 Channel 8MP@30 fps, 11 Channel 6 MP@30 fps, 12 Channel 5MP@30 fps, 16 Channel 4MP@30 fps, 32 Channel 1080p@30 fps, 128 Channel D1@30 fps AI enabled: 1 Channel 32MP@30 fps, 1 Channel 24MP@30 fps, 2 Channel 16MP@30 fps, 2 Channel 12MP@30 fps, 4 Channel 8 MP@30 fps, 5 Channel 6 MP@30 fps, 6 Channel 5MP@30 fps, 8 Channel 4MP@30 fps, 16 Channel 1080p@30 fps, 80 Channel D1@30 fps
Multi-screen Display	Main Screen: 1/4/8/9/16/25/36/64
Playback Mode	Instant playback, General playback, Event playback, Tag playback, Smart playback

Feature	Specification
Motor Vehicle Attributes	9 Attributes
Non-motor Vehicle Attributes	4 Attributes
Network Bandwidth	AI disabled: 1280 Mbps incoming, 1280 Mbps recording and 1024 Mbps outgoing AI enabled: 640 Mbps incoming, 640 Mbps recording and 512 Mbps outgoing
People Attributes	9 human body attributes
Intelli check AI by Camera + NVR	Max. 64 Channel, 1 combined event per channel
Alarm Input	32 Channels
Alarm Output	16 Channels
General Alarm	Motion detection, Local alarm, Alarm box, Camera external alarm, Network alarm, Scene changing, PIR alarm, Thermal alarm
Abnormality Alarm	Error (No disk, Disk error, Low space, RAID exception, Low quota space, Abnormal disk health, Network disconnection, IP conflict, MAC conflict, Abnormal fan speed), Video loss, Video tampering, Camera offline, Audio detection
Intelligent Alarm	Face detection, Face and body detection, Face recognition, Perimeter protection, SMD, Video metadata, Stereo analysis, Crowd distribution, ANPR, Heat map
Alarm Linkage	Record, Snapshot (panoramic), Local alarm output, IPC external alarm output, Access controller, Audio, Buzzer, Log, Preset, Email
RAID	0/1/5/6/10
Hot Swapping	Support
Interface Ports	4 (2 front USB 2.0 ports, 2 rear USB 3.0 ports), 2 RS485 (1 port for half-duplex serial communication, 1 port for full-duplex serial communication), 1 RS232, 1 eSATA
Disk Group	Support
Protocols	HTTP, HTTPS, TCP/IP, IPv4, IPv6, UDP, SNMP, NTP, DHCP, DNS, SMTP, UPnP, IP Filter, PPPoE, FTP, DDNS, Alarm Server, IP Search (Supports IP camera, DVR, NVS, etc.), Multicast, InstaOn, Auto connect, Iscsi, ONVIF 22.06(Profile T, Profile S, Profile G), CGI, SDK
Record Mode	General, Motion detection, Intelligent, Alarm, POS
Hard Disk	16 SATA ports, each disk can contain up to 20 TB. This limit varies depending on the environment temperature
Backup Method	USB device and network

Feature	Specification
Smart Phone	iOS, Android
Ethernet	4 (10/100/2500 Mbps Ethernet port, RJ-45)
Network Mode	Multi-address, Load balance, Fault tolerance
Browser	Chrome, IE, Safari, Edge, Firefox
Power Supply	100–240 VAC, 50±2% Hz
Redundant Power	Support
Power Consumption	<25 W (without HDD)
Operating Temperature	–10 °C to +55 °C (14 °F to +131 °F)
Operating Humidity	10%–93% (RH), non-condensing
Dimensions	485.0 mm × 529.0 mm × 133.2 mm (W × D × H)
Weight	13030g

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