CP-UNR-4K6128R16-EI

128 Ch. 4K Network Video Recorder

- 32-channel 1080p self-adaptive decoding capability
- Max. 1024/1024/800Mbps incoming/recording/outgoing bandwidth
- Support 16 SATA HDDs up to 16TB Each, 4 USB Ports
- Supports N+M cluster
- Support Raid0/1/5/6/10
- Support Multi-brand network cameras
- AI by NVR: 4-channel face detection and recognition; 8-channel metadata; 24-channel perimeter protection; 32-channel SMD Plus.
- AI by Camera: Face detection and recognition, perimeter protection, SMD Plus, metadata, ANPR, and people counting.
- Mobile Software: iCMOB, gCMOB
- CMS Software: KVMS Pro

128 Ch | Linux POWERED | H.265 COMPRESSION | HI-SPEED CERTIFIED USB | GUI | CMS

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 Plus)

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

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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Feature	Specification
Processor	Industrial-grade embedded processor
IP Camera Input	128 channel
Operating System	Embedded LINUX
User Interface	Web; local GUI
Video Output	2-channel VGA, 4-channel HDMI video output. Simultaneous mode: max. resolution of VGA1 and VGA2 is 1080p, max. resolution of HDMI1 and HDMI2 is 4K max. resolution of HDMI3 is 8K max. resolution of HDMI4 is1080p Heterogeneous mode: Simultaneous video source output for VGA1 and HDMI1 Simultaneous video source output for VGA2 and HDMI2 max. resolution of VGA1 and VGA2 is 1080p, max. resolution of HDMI1, HDMI2 and HDMI3 is 4K max. resolution of HDMI4 is 1080p
Video Compression	H.265; Smart H.264+; H.264; MPEG4; MJPEG
Encode Strategy	Instastream
Audio Input/ Output	1 channel Input, 2 channel Output, RCA
Audio Compression	G.711a; G.711u; PCM; G726
ANPR by Camera (Number of Channels)	32 channels
License Plate Database Capacity	Blocklist and allowlist: 20,000
Perimeter Performance AI by Device (Number of Channels)	24 channels, 10 IVS rules for each channel
Perimeter Performance of AI by Camera	64 channels (Number of Channels)
SMD Plus by Device	32-channel: Secondary filtering for human and motor vehicle , reducing false alarms caused by leaves, rain and lighting condition change
SMD Plus by Camera	64 channels
AI by Camera	Face detection; face recognition; video metadata (human, motor vehicles, and non-motor vehicles); SMD Plus; stereo analysis; crowd distribution; people counting; ANPR; vehicle density; object monitoring

Feature	Specification
AI by Device	Face detection; face recognition; video metadata (human, motor vehicles, and non-motor vehicles); SMD Plus
Face Attributes	Gender; age group; glasses; expressions; face mask; beard
Face Detection Performance of AI by Device	4 channels (up to 12 face images/s each channel)
Face Detection Performance of AI by Camera	64 channels
Face Database Capacity	Up to 40 face databases with 300,000 images, with a total capacity of 48 G. Name, gender, birthday, address, credential type, credential No., countries & regions and state can be added to each face image.
Face Recognition Performance of AI by Device	1. 20 channels FD (by camera) + FR (by recorder), image stream: 20 face images/s 2. 4 channels FD (by recorder) + FR (by recorder), video stream: 12 face images/s
Face Recognition Performance of AI by Camera	64 channels
Metadata Performance of AI by Recorder	8 channels
Metadata Performance of AI by Camera	32 channels
Human Attributes	Top color, top type, hat, bag, age, gender and umbrella
Motor Vehicle Attributes	License plate, plate color, vehicle model, vehicle logo, plate color, ornament, calling
Non-motor Vehicle Attributes	Vehicle model, vehicle color, number of persons, helmet
Network Bandwidth	AI disabled: 1024 Mbps incoming, 1024 Mbps recording and 800 Mbps outgoing AI enabled: 512 Mbps incoming, 512 Mbps recording and 400 Mbps outgoing
Multi-screen Display	Main screen: 1/4/8/9/16/25/36/64 ; Sub screen: 1/4/8/9/16/25/36
Resolution	32 MP; 24 MP; 16 MP; 12 MP; 8 MP; 5 MP; 4 MP; 1080p; 720p; D1
Multi-channel Playback	Up to 16 channels
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
Decoding Capability	2-channel 32 MP@30 fps; 2-channel 24 MP@30 fps; 4-channel 16 MP@30 fps; 8-channel 8 MP@30 fps; 16-channel 4 MP@30 fps; 32-channel 1080p@30 fps; 72-channel 720P@30 fps 160-channel D1@30fps
Record Mode	Manual; alarm; motion detection; scheduled
Backup Method	Portable hard drive, eSATA disk, burner, USB device and network

Feature	Specification
Alarm Input	16 Channel
Alarm Output	8 Channel
General Alarm	Motion detection; video tampering; video loss; scene changing, PIR alarm, IPC external alarm
Anomaly Alarm	Camera offline; storage error; disk full; IP conflict; MAC conflict; login lock; abnormal behavior of fan
Intelligent Alarm	Face detection; face recognition; perimeter protection (intrusion and tripwire); SMD Plus alarms; 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
RAID	RAID 0/1/5/6/10
Hot Swapping	Support
Hard Disk	16 SATA ports, up to 16TB each. The maximum HDD capacity varies with environment temperature.
Interface Ports	4 (2 front USB 2.0 ports, 2 rear USB 3.0 ports), 1 × A/B RS485, 1 RS232, 1 eSATA port, 4 HDMI Port, 2 VGA Port
Disk Group	Support
Ethernet	4 (10/100/2500 Mbps Ethernet port, RJ-45)
Network Mode	Multi-address mode, load balance, fault tolerance and other network port binding modes
Protocols	HTTP; HTTPS; TCP/IP; IPv4; RTSP; UDP; NTP; DHCP; DNS; SMTP; UPnP; DDNS; Alarm Server; IP Search; Multicast; InstaOn cloud; Auto Registration; ISCSI; ONVIF 22.06(Profile S/profile T/ Profile G); CGI; SDK
Browser	Chrome, IE 9 or later, Firefox
Power Supply	100–240V AC, 50±2% Hz
Redundant Power	Support
Power Consumption	<18 W (without HDD)
Operating Temperature	-10 °C to +55 °C (14 °F to +131 °F)
Operating Humidity	10%–93%
Dimensions	444.0 mm × 476.0 mm x 95.0 mm (17.48" × 18.74" × 3.74") (W × D × H)
Weight	8.14kg (without HDD)

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