THINK SECURITY
THINK CP PLUS

CP PLUS

CP-UNR-4K4164-FI

16Ch. 4K AI Network Video Recorder

- Up to 16 channel IP camera input
- Instastream, H.265, H.264+, H.264, MJPEG
- AI by Recorder: 1 Channel face detection and Recognition, 2 Channel perimeter protection, up to 10 face databases and 20,000 face images, 4 Channel SMD Plus
- AI by Camera: Face detection and Recognition, Perimeter protection, SMD Plus, ANPR, People counting, Stereo analysis, Heat map
- AI disabled: 256 Mbps incoming, AI enabled: 180 Mbps incoming
- Support 4 SATA ports, up to 16TB each, 2 USB (1 front USB 2.0 port, 1 rear USB 3.0 port), 1 RS232, 1 RS485
- 1 HDMI, 1 VGA Simultaneous/ Heterogeneous video output
- Mobile Software: iCMOB, gCMOB
- CMS Software: KVMS Pro Lite

16 Ch | Linux Powered | H.265 Compression | Hi-Speed USB Certified | GUI | CMS

System Overview

The CP Plus Pro Series of NVRs have been meticulously designed for providing you with upgraded performance and higher recording quality in your IP video surveillance solution. The robust processor that has been inculcated in this NVR lets you enjoy 4K resolution and brings out every little detail from the picture in a clear view. This NVR is being used worldwide at a variety of places because of its easy-to-install design. This NVR also supports the features of open architecture that enable multi-user access and is also compatible with ONVIF 2.4 protocol which makes it interoperable with 4K cameras.

Functions

ANPR 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.

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Functions

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.

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.

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.

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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16Ch. 4K AI Network Video Recorder

Feature	Specification
Processor	Industrial-grade processor
IP Camera Input	16 Channels
Operating System	Embedded LINUX
User Interface	Web, Local GUI
AI by Camera	Face detection, Face recognition, Perimeter protection, SMD Plus, ANPR, People counting, Stereo analysis, Heat map
AI by NVR	Face detection, Face recognition, Perimeter protection and SMD Plus
Perimeter Performance AI by NVR	2 channels, 10 IVS rules for each channel
Perimeter Performance of AI by Camera	All channels (8 targets/s)
Face Detection AI by NVR	1 Channel (up to 12 face images/s each channel)
Video Output	1 HDMI: 3840 × 2160, 1920 × 1080, 1280 × 1024, 1280 × 720; 1 VGA: 1920 × 1080, 1280 × 1024, 1280 × 720
Face Attributes	Gender, Age group, Glasses, Expressions, Face mask, Beard
Abnormality Alarm	Camera disconnection, Storage error, Disk full, IP conflict, MAC conflict, Login locked, Cybersecurity exception
Face Database Capacity	Up to 10 face databases with 20,000 images, with a total capacity of 2.5 G. Name, Gender, Birthday, Address, Credential type, Credential No., Countries & Regions and state can be added to each face image
Face Recognition AI by NVR	8 Channel FD (by camera) + FR (by NVR), image stream: 12 face images/s 1 Channel FD (by NVR) + FR (by NVR), video stream: 12 face images/s
Face Recognition AI by Camera	All Channels (8 targets/s)
Face Detection AI by Camera	All Channels (8 targets/s)
Network Bandwidth	AI disabled: 256 Mbps incoming, 256 Mbps recording and 256 Mbps outgoing AI enabled: 180 Mbps incoming, 180 Mbps recording and 180 Mbps outgoing

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Feature	Specification
Video Display Split	1st Screen: 1/4/8/9/16; 2nd Screen: 1/4/8/9/16
ANPR by Camera (Number of Channels)	All Channels (4 targets/s)
Decoding Capability	AI disabled: 2 Channel 16 MP@30 fps, 2 Channel 12 MP@30 fps, 4 Channel 8 MP@30 fps, 4 Channel 6 MP@30 fps, 6 Channel 5 MP@30 fps, 8 Channel 4 MP@30 fps, 16 Channel 1080p@30 fps AI enabled: 1 Channel 16 MP@30 fps, 2 Channel 12 MP@30 fps, 3 Channel 8 MP@30 fps, 3 Channel 6 MP@30 fps, 4 Channel 5 MP@30 fps, 6 Channel 4 MP@30 fps, 12 Channel 1080p@30 fps, 16 Channel 720p@30 fps
Record Mode	General, Motion detection, Intelligent, Alarm
License Plate Database Capacity	1. Create up to 20,000 plate numbers; 2. Blocklist and allowlist
Audio Input	1 Channel RCA
Audio Output	1 Channel RCA
Video Resolution	16 MP, 12 MP, 8 MP, 6 MP, 5 MP, 4 MP, 3 MP, 2MP, 960p, 720p, D1, CIF
Video Compression	Instastream, H.265, H.264+, H.264, MJPEG
Audio Compression	G.711a, G.711u, PCM, G726, AAC
Alarm Input	16 Channel
Alarm Output	4 Channels
Disk Group	Support
Hard Disk	4 SATA ports, up to 16 TB each. The maximum HDD capacity varies with environment temperature
General Alarm	Motion detection, Privacy masking, Video loss, Scene changing, PIR alarm, IPC external alarm
Intelligent Alarm	Face detection, Face recognition, Perimeter protection, SMD Plus, People counting, Stereo analysis, Heat map
Alarm Linkage	Record, Snapshot, IPC external alarm output, Audio, Buzzer, Log, Preset, Email
Playback Mode	Instant playback, General playback, Event playback, Tag playback, Smart playback
Multi-Channel Playback	Up to 16 Channels
Interface Ports	2 (1 front USB 2.0 port, 1 rear USB 3.0 port), 1 HDMI, 1 VGA, 1 RS232, 1 RS485
Ethernet	2 (10/100/1000 Mbps Ethernet port, RJ-45)
Protocols	HTTP, HTTPS, TCP/IP, IPv4/IPv6, UPnP, SNMP, RTSP, UDP, SMTP, NTP, DHCP, DNS, IP Filter, PPPoE, DDNS, FTP, Alarm Server, P2P, auto register, ONVIF 22.06(Profile T, Profile S, Profile G), CGI, SDK
Backup Method	USB device and network

Feature	Specification
SMD Plus by Camera	All Channels (16 targets/s)
SMD Plus by NVR	4 channels: Secondary filtering for human and motor vehicle, reducing false alarms caused by leaves, Rain and lighting condition change
Smart Phone	iOS, Android
Browser	Chrome, IE9 and later, Firefox
Power Supply	100–240 VAC, 50-60Hz
Power Consumption	<10 W (without HDD)
Operating Temperature	–10 °C to +55 °C (14 °F to +131 °F)
Operating Humidity	10%–93% (RH), non-condensing
Storage Temperature	–20 °C to +60 °C (–4 °F to +140 °F)
Dimensions	440.0 mm × 415.6 mm x 76.0 mm
Weight	4.25 kg

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