CP-UNR-4K4162-P16V4

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

- Up to 16 channel IP camera input
- Smart Instastream,H.265,Smart H.264+,H.264 and MJPEG decoding
- Max. decoding capability: 8 × 1080p@30fps or 2 × 8MP@30fps.
- Max. 160/160/80 Mbps incoming/recording/outgoing bandwidth
- 2 SATA ports. Each disk can contain up to 20TB, 2 USB Ports
- Supports IP cameras with a resolution up to 12MP
- AI by NVR supports 4-channel SMD Plus
- AI by Camera supports face detection and recognition, perimeter protection, SMD Plus, people counting, stereo analysis and heat map
- Supports EPTZ, and one-click arming and disarming
- Support 16 PoE Ports
- Mobile Software: iCMOB, gCMOB
- CMS Software: KVMS Pro

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

System Overview

CP Plus has introduced the new and impactful range of NVRs under the Lite Series which has been integrated with the 4K and H.265 encoding technology that provides you with an outstanding at a reasonably pocket-friendly price. The 4K resolution processors present in this product help in bringing out every little detail in the image. Along with that, this NVR uses the intuitive shortcut operation menu which lets you control and manage the system remotely as well and can work as edge storage, central storage, backup storage.

The highly compatible design of this NVR allows you to third-party devices. This makes this product the ideal solution to your surveillance requirements as it can run independently of video management systems. This NVR by CP Plus has wide-ranging applications such as in keeping the public safe, conserving the water, transportation, city centers, educational facilities, and other institutions.

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Functions

Smart Motion Detection (SMD Plus) by Camera

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.

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 Network Video Recorder with 16 PoE Ports

Feature	Specification
Processor	Industrial-grade processor
IP Camera Input	16 channel
Operating System	Embedded LINUX
Operation Interface	Web, Local GUI
AI by NVR	SMD Plus
AI by Camera	Face detection; face recognition; perimeter protection; SMD Plus; people counting; stereo analysis; heat map
Perimeter Performance of AI by Camera (Number of Channels)	6 channels
Face Attributes	Gender; age group; glasses; expressions; face mask; beard
Face Detection Performance of AI by Camera (Number of Channels)	6 channels
Face Recognition Performance of AI by Camera (Number of Channels)	6 channels
SMD Plus by NVR	4 channels: Secondary filtering for human and motor vehicle, reducing false alarms caused by leaves, rain and lighting condition change
SMD Plus by Camera	6 channels
Video Output	1 HDMI, 1 VGA Simultaneous HDMI: 3840 × 2160, 1920 × 1080, 1280 × 1024, 1280 × 720 VGA: 1920 × 1080, 1280 × 1024, 1280 × 720 Heterogeneous: HDMI: 1920 × 1080, 1280 × 1024, 1280 × 720 VGA: 1920 × 1080, 1280 × 1024, 1280 × 720
Compression	H.265; Smart H.264+; H.264
Encode Strategy	Instastream
Network Bandwidth	AI disabled: 160Mbps incoming, 160Mbps recording and 80Mbps outgoing AI enabled: 80Mbps incoming, 80Mbps recording and 60Mbps outgoing

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Feature	Specification
Resolution	12 MP; 8 MP; 6 MP; 5 MP; 4 MP; 3 MP; 1080p; 960p; 720p; D1; CIF; QCIF
Decoding Capability	AI disabled: 1-channel 12 MP@30 fps; 2-channel 8 MP@30 fps; 3-channel 5 MP@30 fps; 4-channel 4 MP@30 fps; 8-channel 1080p@30 fps AI enabled: 1-channel 12 MP@30 fps; 1-channel 8 MP@30 fps; 2-channel 5 MP@30 fps; 3-channel 4 MP@30 fps; 7-channel 1080p@30fps
Multi-screen Display	Main Screen: 1/4/8/9/16 Sub Screen: 1/4/8/9/16
Intelligent Alarm	Face detection; face recognition; perimeter protection; SMD Plus; people counting; stereo analysis; heat map
General Alarm	Motion detection; privacy masking; video loss; scene changing; PIR alarm; IPC external alarm
Anomaly Alarm	Camera disconnection; storage error; disk full; IP conflict; MAC conflict; login locked; and cybersecurity exception
Alarm Linkage	Record; snapshot; IPC external alarm output; audio; buzzer; log; preset; email
Audio Compression	G.711a; G.711u; PCM; G726
Audio Input	1-channel RCA
Audio Output	1-channel RCA
Alarm Input	4 Channel
Alarm Output	2 channels (1-channel 12 V 1 A output)
Record Mode	General, motion detection; intelligent; alarm
Smart Phone	iPhone, iPad, Android Phone
Hard Disk	2 SATA ports. Each disk can contain up to 20TB. This limit varies depending on the environment temperature.
Browser	Chrome; IE; Safari; Edge; Firefox
Disk Group	Support
Multi-channel Playback	Up to 16 channels
Playback Mode	Instant playback, general playback, event playback, tag playback, smart playback
Backup	USB device and network
Interface Ports	2 USB ports (1 front USB 2.0 port, 1 rear USB 2.0 port), 1 RS232 Port, 1 HDMI, 1 VGA Port
Ethernet	1 (10/100/1000 Mbps Ethernet port, RJ-45)

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Feature	Specification
PoE	16 ports, 10/100 Mbps, IEEE 802.3 af/at
Protocols	HTTP; HTTPS; TCP/IP; IPv4; IPv6; UDP; NTP; DHCP; DNS; SMTP; UPnP; IP Filter; FTP; DDNS; SNMP; Alarm Server; InstaOn cloud; Auto Registration; IP Search; ONVIF 22.12(Profile T; Profile S; Profile G); CGI; SDK
Power Supply	100–240 VAC, 50/60 Hz
Power Consumption	Total output of NVR is <10 W (without HDD) Total output power of PoE is 130W,the maximum output power of a single port is 25.5W
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	375.0 mm × 327.9 mm × 53.0 mm (14.76" × 12.91" × 2.09") (W × D × H)
Weight	2.60kg