

# CP-UNR-4K4162-V4

## 16 Ch. 4K 2HDDs Network Video Recorder

- Up to 16 channel IP camera input
- Max. decoding capability: 8 × 1080p@30 fps, 2 × 8 MP@30 fps
- Smart Instastream/H.265/H.264 /MJPEG
- Up to 12Mp resolution preview and playback
- Max. 160/160/80 Mbps incoming/recording/outgoing bandwidth.
- Support 2 SATA HDDs up to 20TB, 2 (1 front USB 2.0 port, 1 rear USB 2.0 port)
- HDMI / VGA simultaneous video output
- Support Multi-brand network cameras
- ONVIF Version 2.4 conformance
- Mobile Software: iCMOB, gCMOB
- CMS Software: KVMS, KVMS Pro



### 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

#### 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

#### 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.

#### 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.

#### 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.

### 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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## 16 Ch. 4K 2HDDs Network Video Recorder

Feature	Specification
Processor	Industrial-grade processor
IP Camera Input	16 channel
Operating System	Embedded LINUX
User Interface	Web, Local GUI
AI by Camera	Face detection; face recognition; perimeter protection; SMD Plus; people counting; stereo analysis; heat map
AI by Recorder	SMD Plus
Perimeter Performance of AI by Camera	6 ch.
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
Face Attributes	Gender; age group; glasses; expressions; face mask; beard
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 Ch.
Face Recognition Performance of AI Camera	6 ch.
Resolution	12 MP; 8 MP; 6 MP; 5 MP; 4 MP; 3 MP; 1080p; 960p; 720p; D1; CIF; QCIF
Network Bandwidth	AI disabled: 160 Mbps incoming, 160 Mbps recording and 80 Mbps outgoing AI enabled: 80 Mbps incoming, 80 Mbps recording and 60 Mbps outgoing
Multi Screen Preview	Main Screen: 1/4/8/9/16 Sub Screen: 1/4/8/9/16

Feature	Specification
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@30 fps
Record Mode	General, motion detection; intelligent; alarm
Video Compression	H.265; Smart H.264+; H.264
Encode Strategy	Smart Instastream;
Audio Compression	G.711a; G.711u; PCM; G726
Audio Input	1-channel RCA
Audio Output	1-channel RCA
Alarm Input	4 channels
Alarm Output	2 channels (1-channel 12 V 1 A output )
Smart Phone	iPhone, iPad, Android, Windows Phone
Disk Group	Support
Disk Interface	2 SATA ports. Each disk can contain up to 20 TB. This limit varies depending on the environment temperature.
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 cyber-security exception
Trigger Events	Recording, PTZ, Tour, Alarm, Video Push, Email, FTP, Spot, Buzzer & Screen
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
Recording Mode	Manual, Schedule(Regular(Continuous), MD, Alarm), Stop
Face Detection Performance	6 ch.
Browser	Chrome; IE; Safari; Edge; Firefox
Search Mode	Time/Date, Alarm, MD & Exact search (accurate to second), Smart search
Multi-Channel Playback	Up to 16 Ch.
Playback	Play, Pause, Stop, Rewind, Fast play, Slow play, Next file, Previous file, Next camera, Previous camera, Full screen, Repeat, Shuffle, Backup selection,Digital zoom
Playbackfunction	Instant playback, general playback, event playback, tag playback, smart playback

Feature	Specification
Backup Mode	USB device and network
Interface Ports	1 HDMI, 1 VGA, 2 USB2.0, 1 RJ45
Ethernet	1 RJ-45 port (10/100M/1000M)
Protocols	HTTP; HTTPS; TCP/IP; IPv4; IPv6; UDP; NTP; DHCP; DNS; SMTP; UPnP; IP Filter; FTP; DDNS; SNMP; Alarm Server; P2P; Auto Registration; IP Search (Supports IP camera, DVR, NVS, etc.) ONVIF 2.2(Profile T; Profile S; Profile G); CGI; SDK
Operating Temperature	−10 °C to +55 °C (14 °F to +131 °F)
Storage Temperature	−20 °C to +60 °C (−4 °F to +140 °F)
Operating Humidity	10%–93% (RH), non-condensing
Power Supply	12 VDC, 4 A
Power Consumption	Total output of NVR is <10 W(without HDD)
Dimensions	375.0 mm × 282.9 mm × 53.0 mm
Weight	1.49 kg