

# CP-UNR-4K4082-V4

## 8CH 1U 2HDDs Network Video Recorder

- Up to 8 Channel IP Camera input
- Instastream, H.265, H.264, MJPEG
- Up to 12 MP resolution preview and playback
- AI disabled: 160 Mbps incoming, AI enabled: 80 Mbps incoming
- Support 2 SATA HDDs up to 20TB, 2 USB ports(2.0)
- HDMI / VGA simultaneous video output
- 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 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 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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## 8CH 1U 2HDDs Network Video Recorder

Feature	Specification
Processor	Industrial-grade processor
IP Camera Input	8 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 NVR	SMD Plus
Perimeter Performance of AI by Camera	6 channels
Video Output	Simultaneous :1 HDMI: 3840 × 2160, 1920 × 1080, 1280 × 1024, 1280 × 720 1 VGA: 1920 × 1080, 1280 × 1024, 1280 × 720 Heterogeneous: 1 HDMI: 1920 × 1080, 1280 × 1024, 1280 × 720 1 VGA: 1920 × 1080, 1280 × 1024, 1280 × 720
Abnormality Alarm	Camera disconnection, Storage error, Disk full, IP conflict, MAC conflict, Login locked and cybersecurity exception
Face Attributes	Gender, age group, glasses, expressions, face mask, beard
SMD Plus by Camera	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
Face Recognition AI by Camera	6 channels
Face Detection AI by Camera	6 channels
Encode Strategy	Instream, H.264+
Resolution	12 MP, 8 MP, 6 MP, 5 MP, 4 MP, 3 MP, 2 MP, 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
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

Feature	Specification
Video Display Split	Main screen: 1/4/8/9 Sub screen: 1/4/8/9
Audio Input	1-channel RCA
Audio Output	1-channel RCA
Audio Compression	G.711a, G.711u, PCM, G726, AAC
Video Compression	H.265, H.264
Alarm Input	4 channels
Alarm Output	2 channels (1-channel 12 V 1 A output )
Disk Group	Support
Record Mode	General, motion detection, intelligent, alarm
Smart Phone	iPhone, iPad, Android Phone
Hard Disk	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
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
Browser	Chrome, IE9 and later, Firefox, Edge
Playback Mode	Instant playback, general playback, event playback, tag playback, smart playback
Multi-Channel Playback	Up to 8 channels
Interface Ports	2 (1 front USB 2.0 port, 1 rear USB 2.0 port), 1 HDMI, 1 VGA
Ethernet	1 (10/100/1000 Mbps Ethernet port, RJ-45)
Protocols	HTTP, HTTPS, TCP/IP, IPv4, IPv6, UDP, NTP, DHCP, DNS, SMTP, UPnP, IP Filter, FTP, DDNS, SNMP, Alarm Server, P2P, Auto Registration, ONVIF 2.2(Profile T, Profile S, Profile G), CGI, SDK
Backup Method	USB device and network
Power Supply	12 VDC, 4 A
Power Consumption	<10 W (Without HDD)
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)
Dimensions	375.0mm × 282.9mm × 53.0mm
Weight	1.49 kg