**CP PLUS**

# CP-UNR-4K564R8-FI

## 64Ch. AI Network Video Recorder

- Up to 64 channel IP camera input
- Max. 384 Mbps incoming/recording/outgoing bandwidth
- Instastream/H.265/Smart H.264+/H.264/MJPEG codec decoding
- AI by Recorder: 2-channel face detection and recognition, 4-channel perimeter protection, and 8-channel SMD Plus
- Support 8 SATA HDDs up to 16TB Each, 4 USB Ports (2 USB 3.0)
- AI by Camera: Face detection and recognition, perimeter protection, SMD Plus, metadata, ANPR, stereo analysis, heat map, and people counting
- Support RAID 0/1/5/6/10
- Support N+M cluster
- Mobile Software: iCMOB, gCMOB
- CMS Software: KVMS Pro

| 64 Ch | LINUX POWERED | H.265 COMPRESSION | HI-SPEED CERTIFIED USB | GUI | CMS |

## System Overview

The CP Plus this 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

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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## 64Ch. AI Network Video Recorder

| Feature | Specification |
|---|---|
| Processor | Industrial-grade processor |
| IP Camera Input | 64 Channel |
| Operating System | Embedded LINUX |
| User Interface | Web, Local GUI |
| Video Output | 2 VGA, 2 HDMI<br>VGA: 1920 × 1080, 1280 × 1024, 1280 × 720<br>HDMI: 3840 × 2160, 1920 × 1080, 1280 × 1024, 1280 × 720<br>Heterogeneous video source output for HDMI1 and HDMI2<br>Simultaneous video source output for VGA1 and HDMI1<br>Simultaneous video source output for VGA2 and HDMI2 |
| Compression | H.265; Smart H.264+; H.264; MJPEG |
| Encode Strategy | Instastream |
| Decoding Capability | AI disabled: 2-channel 32 MP@20 fps; 2-channel 24 MP@20 fps; 4-channel 16 MP@30 fps; 5-channel 12 MP@30 fps; 8-channel 8 MP@30 fps; 12-channel 5 MP@30 fps; 16-channel 4 MP@30 fps; 32-channel 1080p@30fps<br>AI enabled: 1-channel 32 MP@20 fps; 1-channel 24 MP@20 fps; 2-channel 16 MP@30 fps; 4-channel 12 MP@30 fps; 4-channel 8 MP@30 fps; 8-channel 5 MP@30 fps; 12-channel 4 MP@30 fps; 24-channel 1080p@30fps |
| AI by NVR | Face detection; face recognition; perimeter protection; SMD Plus |
| AI by Camera | Face detection; face recognition; video metadata (human, motor vehicles, and non-motor vehicles); perimeter protection; SMD Plus; stereo analysis; crowd distribution; people counting; ANPR; vehicle density; heat map |
| Resolution | 32MP; 24MP; 16MP; 12MP; 8MP; 5MP; 4MP; 1080p; 720p; D1; CIF; QCIF |
| Network Bandwidth | AI disabled: 384 Mbps incoming, 384 Mbps recording and 384 Mbps outgoing<br>AI enabled: 200 Mbps incoming, 200 Mbps recording and 200 Mbps outgoing |
| Video Display Split | Main screen: 1/4/8/9/16/25/36/64, Sub screen: 1/4/8/9/16 |

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| Feature | Specification |
|---|---|
| Perimeter Performance AI by NVR (Number of Channels) | 4 channels, 10 IVS rules for each channel |
| Perimeter Performance of AI by Camera (Number of Channels) | 16 channels |
| Face Attributes | Gender; age group; glasses; expressions; face mask; beard |
| Face Detection Performance of AI by Recorder (Number of Channels) | 2 channels (up to 12 face images/s each channel) |
| Face Detection Performance of AI by Camera (Number of Channels) | 16 channels |
| Face Database Capacity | Up to 20 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 Performance of AI by NVR (Number of Channels) | 1. 16-channel FD (by camera) + FR (by nvr), image stream: 16 face images/s<br>2. 2-channe FD (by nvr) + FR (by nvr), video stream: 12 face images/s |
| Face Recognition Performance of AI by Camera (Number of Channels) | 16 channels |
| SMD Plus by NVR | 8 channels: Secondary filtering for human and motor vehicle, reducing false alarms caused by leaves, rain and lighting condition change |
| SMD Plus by Camera | 16 channels |
| Metadata Performance of AI by Camera (Number of Channels) | 8 channels |
| Human Attributes | Top color, top type, bottom color, bottom type, hat, bag, age, gender and umbrella |
| Motor Vehicle Attributes | License plate, plate color, vehicle body, vehicle model, vehicle logo, calling, seatbelt, vehicle interior, vehicle registration location |
| Non-motor Vehicle Attributes | Vehicle model, vehicle color, number of persons, helmet |
| ANPR by Camera (Number of Channels) | 8 channels |

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| Feature | Specification |
|---|---|
| License Plate Database Capacity | 1. Create up to 20,000 plate numbers. 2. Blocklist and allow list |
| Anomaly Alarm | Camera offline; storage error; disk full; IP conflict; MAC conflict; login lock; abnormal behaviour of fan; cybersecurity exception |
| Intelligent Alarm | Face detection; perimeter protection; face recognition; video metadata (human, motor vehicles, and non-motor vehicles); SMD Plus; stereo analysis; crowd distribution; people counting; ANPR; vehicle density; heat map |
| General Alarm | Motion detection; privacy masking; local alarm |
| Alarm Linkage | Record; snapshot (panoramic); local alarm output; IPC external alarm output; access controller; audio; buzzer; log, preset; email |
| Audio Input | 1-channel RCA |
| Audio Output | 2-channel RCA |
| Audio Compression | G.711a; G.711u; PCM; G726 |
| Disk Group | Support |
| Alarm Input | 16 channel |
| Alarm Output | 8 channels (1-channel 12 V 1 A output) |
| Hard Disk | 8 SATA ports, up to 16TB Each. The maximum HDD capacity varies with environment temperature |
| Multi-channel Playback | Up to 16 channels |
| Record Mode | General, motion detection; intelligent; alarm; POS |
| Backup Method | USB device and network |
| Playback Mode | Instant playback, general playback, event playback, tag playback, smart playback (face and motion detection) |
| Smart Phone | iPhone, iPad, Android Phone |
| RAID | RAID 0/1/5/6/10 |
| Backup Mode | USB Device/Network |
| Interface Ports | 4 (2 front USB 2.0 ports, 2 rear USB 3.0 ports), 2 HDMI, 2 VGA, 1 eSATA Port, 1 RS232, 2 RS485 (1 port for half-duplex serial communication, 1 port for full-duplex serial communication) |

# CP PLUS

| Feature | Specification |
|---|---|
| Protocols | HTTP; HTTPS; TCP/IP; IPv4/IPv6; UDP; SNMP; NTP; DHCP; DNS; SMTP; UPnP; IP Filter; PPPoE; FTP; DDNS; Alarm Server; IP Search (Supports CP Plus IP camera, DVR, NVS, etc.); Multicast; InstaOn; Auto Registration; iSCSI, ONVIF 22.06 (Profile T; Profile S; Profile G); CGI; SDK |
| Network Mode | Multi-address mode, load balance, fault tolerance and other network port binding modes |
| Ethernet | 2 x (10/100/1000 Mbps Ethernet port, RJ-45) |
| Power Supply | 100–240 VAC, 50-60 Hz |
| Power Consumption | Total output of NVR is ≤ 13 W (without HDD) |
| Operating Temperature | -10 °C to +55 °C (14 °F to +131 °F) |
| Operating Humidity | 10%–93% (RH) |
| Storage Temperature | -20 °C to +60 °C (–4 °F to +140 °F) |
| Dimensions | 439.9 mm × 457.9 mm x 89.0 mm (17.32" × 18.03" × 3.50") (W ×D × H) |
| Weight | 6.4 kg |

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*Product casing and specifications are subject to change without prior notice*