

CP-UNR-4K664R16-EI

64Ch. 4K AI Network Video Recorder

- Supports Instastream and MJPEG decoding formats
- Max. decoding capability: 32 × 1080p@30fps
- Support Intelli check with up to 64 channels
- Max. 1280/1280/1024 Mbps incoming/recording/outgoing bandwidth.
- Supports redundant power, N+M cluster, Raid 0/1/5/6/10, ISCSI, HDD hot swapping.
- Supports EPTZ, One-click Arming and Disarming
- 4 HDMI / 2 VGA Video output
- AI by NVR supports 8-channel face detection and recognition, up to 40 face databases and 300,000 face images; 8-channel metadata, 32-channel perimeter protection, 32-channel SMD Plus
- AI by Camera: face detection and recognition, perimeter protection, SMD Plus, metadata, ANPR, stereo analysis, heat map, and people counting
- Mobile Software: iCMOB, gCMOB
- CMS Software: KVMS Pro



System Overview

This highly intelligent video surveillance server is now combining the latest video management features to the authentic video storage functions within a single device, making this Series surpass all ordinary NVR products. This NVR works effectively in detecting and recognizing faces and can be installed in a wide-variety of situations. The deep learning artificial intelligence technology in this product uses the video image metadata technology, which offers you highly accurate face recognition and efficient perimeter protection at all times.

This product has been given the revolutionary UI design that allows you to operate and manage your device with increased ease and comfort, improving the value and experience of the surveillance conducted by you.



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Function

4k Resolution

Created ideally for covering every inch of the space that is under surveillance, the 4K resolution technology lets you enjoy complete clarity in a magnified image. This technology has proven to be the most beneficial for image processing

ANPR Technology

The automatic network replenishment technology has eased conducting surveillance manifolds by automatically storing the video data on an IP Camera SD card when the network is disconnected to prevent losing the video feed even for a single second. And so, whenever the network has been recovered next, the data is automatically transferred to the NVR.

N+M Hot Standby

Understanding the need of the hour, this NVR has been crafted through using the greatly-reliable redundant N+M Hot Standby design which presents a secure, failsafe way of ensuring immediate backup of the video from your security solution.

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.

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 de

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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Feature	Specification
Processor	Industrial-grade processor
Operating System	Embedded Linux
IP Camera Input	64 channel
User Interface	Web, Local GUI
AI by Camera	Face detection, face recognition, video metadata (human, motor vehicles, and non-motor (vehicles) perimeter protection, SMD stereo analysis, crowd distribution, people counting, ANPR, heat map, PPE detection
AI by NVR	Face detection, face recognition, video metadata (human, motor vehicles, and non-motor vehicles), perimeter protection, SMD, ANPR
Perimeter Performance AI by NVR	Simultaneous mode: 32 channels, 10 IVS rules for each channel Heterogeneous mode: 24 channels, 10 IVS rules for each channel
Perimeter Performance of AI by Camera	64 channels
Video Output	2 VGA, 4 HDMI: VGA:1920×1080, 1280×1024, 1280×720 HDMI1&2: 3840×2160, 1920×1080, 1280×1024,1280×720 HDMI3: : 7680 × 4320, 3840 × 2160, 1920 × 1080, 1280 × 1024, 1280 × 720 HDMI4: 1920 × 1080, 1280 × 1024, 1280 × 720 Simultaneous mode: max. resolution of VGA1 and VGA2 is 1080p max. resolution of HDMI1 and HDMI2 is 4K max. resolution of HDMI3 is 8K max. resolution of HDMI4 is 1080p Heterogeneous mode: Simultaneous video source output for VGA1 and HDMI1. Simultaneous video source output for VGA2 and HDMI2 max. resolution of VGA1 and VGA2 is 1080p max. resolution of HDMI1, HDMI2 and HDMI3 is 4K max. resolution of HDMI4 is 1080p
Face Detection Performance of AI by NVR	Simultaneous mode: 8 channels (up to 12 face images/s each channel) Heterogeneous mode: 5 channels (up to 12 face images/s each channel)
Face Attributes	6 attributes
SMD Plus by NVR	32 channels: Secondary filtering for human and motor vehicle, reducing false alarms caused by leaves, rain and lighting condition change

Feature	Specification
Face Recognition Performance of AI NVR	<p>Simultaneous mode: 32-channel FD (by camera) + FR (by recorder), image stream: 32 face images/s 8-channel FD (by recorder) + FR (by recorder), video stream: 16 face images/s</p> <p>Heterogeneous mode: 16-channel FD (by camera) + FR (by recorder), image stream: 16 face images/s 5-channel FD (by recorder) + FR (by recorder), video stream: 10 face images/s</p>
SMD By Camera	64 channels
Face Recognition Performance of AI Camera	64 channels
Resolution	32 MP, 24 MP, 16 MP, 12 MP, 8 MP, 6 MP, 5 MP, 4 MP, 3 MP, 1080p, 960p, 720p, D1, CIF
Network Bandwidth	<p>AI Disabled: 1280 Mbps incoming, 1280 Mbps recording and 1024 Mbps outgoing</p> <p>AI Enabled: 640 Mbps incoming, 640 Mbps recording and 512 Mbps outgoing</p>
Network Mode	Multi-address, load balance, fault tolerance
Motor Vehicle Attributes	9 attributes
People Attributes	9 human body attributes
Video Metadata By Camera for Non Vehicle	4 attributes
ANPR By Camera	64 channels
Decoding Capability	<p>AI Disabled: 2-channel 32 MP@30 fps; 2-channel 24 MP@30 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@30 fps; 64-channel D1@30 fps AI enabled: 1-channel 32 MP@30 fps; 1-channel 24 MP@30 fps; 2-channel 16 MP@30 fps; 2-channel 12 MP@30 fps; 4-channel 8 MP@30 fps; 6-channel 5 MP@30 fps; 8-channel 4 MP@30 fps; 16-channel 1080p@30 fps; 64-channel D1@30 fps</p>
Audio Input	1-channel RCA
Audio Output	2-channel RCA
Encode Strategy	Instastream
Video Compression	H.265, H.264
Audio Compression	G.711a, G.711u, PCM, G726

Feature	Specification
Alarm Input	32 channels
Alarm Output	16 channels
Hot Swapping	Support
Smart Phone	iOS, Android
Disk Interface	16 SATA ports, each disk can contain up to 20TB. This limit varies depending on the environment temperature.
Disk Group	Support
General Alarm	Motion detection, local alarm, alarm box, camera external alarm, network alarm, scene changing, PIR alarm, thermal alarm
Anomaly Alarm	Error (no disk, disk error, low space, RAID exception, low quota space, abnormal disk health, network disconnection, IP conflict, MAC conflict, abnormal fan speed), video loss; video tampering, camera offline, audio detection
Intelligent Alarm	Face detection, face and body detection, face recognition, perimeter protection, SMD, video metadata, stereo analysis, crowd distribution, ANPR, heat map
Alarm Linkage	Record, snapshot (panoramic), local alarm output, IPC external alarm output, access controller, audio, buzzer, log, preset, email
RAID	RAID 0/1/5/6/10
Recording Mode	General, Motion Detection, Intelligent, Alarm, POS
Playback Mode	Instant playback, General playback, Event playback, Tag playback, Smart playback
Browser	Chrome, IE, Safari, Edge, Firefox
Metadata Performance of AI by Camera	64 channels
Metadata Performance of AI by NVR	8 channels, 23 attributes extraction
Multi-Channel Playback	Up to 16 channels
Backup Mode	USB device and network
Ethernet Port	4 (10/100/2500 Mbps Ethernet port, RJ-45)
Protocols	HTTP, HTTPS, TCP/IP, IPv4/IPv6, UDP, SNMP, NTP, DHCP, DNS, SMTP, UPnP, IP Filter, PPPoE, FTP, DDNS, Alarm Server, IP Search Multicast, Instaon cloud, Auto Registration, iSCSI, ONVIF 22.06 (Profile T; Profile S; Profile G); CGI; SDK
Power Supply	100–240 VAC, 50±2% Hz

Feature	Specification
Power Redundancy	Support
Power Consumption	<25W (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), non-condensing
Dimensions	3U, 485.0 mm × 529.0 mm × 133.2 mm(19.09" × 20.83" × 5.24") (W × D × H)
Weight	13.03 kg (without HDD)

Dimensions (mm/inch)

