CP-UNC-BG81C-VMD

8MP AI Network Box Camera

- 1/1.8" 8MP PS CMOS Image Sensor (1.411 cm)
- Max. outputs 8MP(3840×2160)@25fps/30fps
- Instastream/H.265/Smart H.264+/H.264 coding
- Five streams for three-channel HD video
- WDR(120dB), Day/Night (ICR), 3D-DNR, EIS, Defog, ROI, AWB, AGC, BLC, HLC
- C/CS Mount lens
- Support Built-in Mic, Micro SD Card, PoE+
- With deep learning algorithm, it supports people counting, face recognition, perimeter protection etc
- Mobile Software: iCMOB, gCMOB
- CMS Software: KVMS Pro

1/1.8" CMOS	8MP 4K	WDR Wide Dynamic Range	I C R	AGC Auto Gain Control	Automatic White Balance	Backlight Compensation
CMOS	4K					

System Overview

Understanding the need of the hour in the security and surveillance industry, this series has been integrated with the starlight technology along with efficient and powerful deep-learning algorithms to make your life hugely easier. The numerous AI-based smart functions of this camera let you capture a face, protect the perimeter and even count people, greatly improving the accuracy of your video analysis. This camera also complies with international certification standards such as IP67 and IK10, as this camera is not just dust-proof and water-proof but also shock-proof and vandal-proof (which is given in selected models).

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.

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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 using Intelligent Region Perception to detect motion in each frame.

Wide Dynamic Range (WDR)

When a scene is partly dark and partly bright, that is the dynamic range that distorts images due to this difference in the lighting. WDR technology provides you balanced lighting for a clear and vivid image throughout the day. WDR technology can be installed at entry/exit points of any building structure, jewellery shops, outdoor location among so many other places.

ANPR Technology

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.

People Counting

The operator is required to set up a heat map and when the total heat in any given area crosses that threshold, alarms are generated. This technology is also useful in calculating the people quantity at the scene and density in selected areas. This function also comes in handy when one wants to detect motion in the camera's frame as well as in detecting video tempering, scene changing, and people gathering.

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.
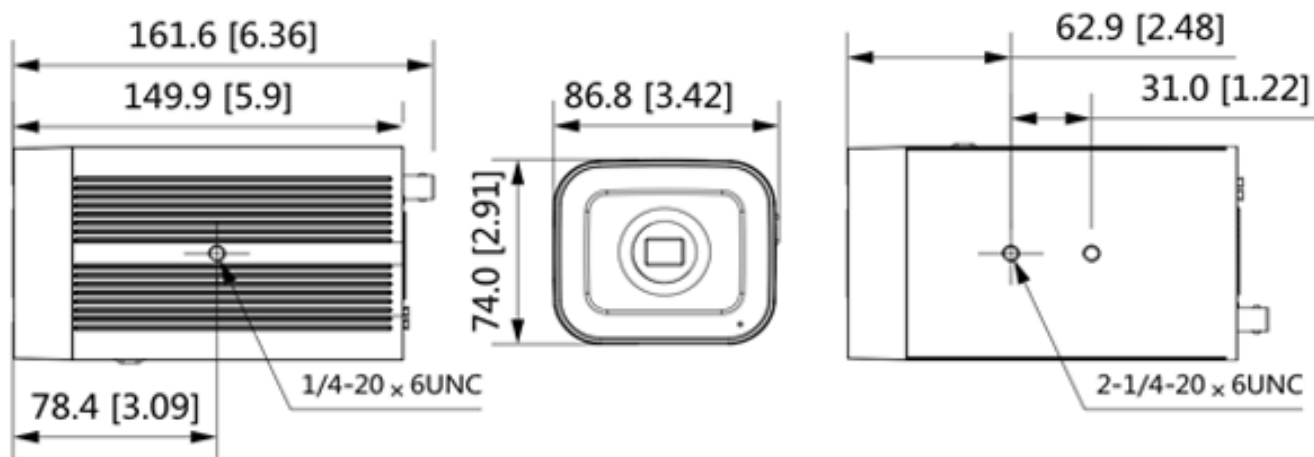
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8MP AI Network Box Camera

Feature	Specification
Image Sensor	1/1.8" 8Megapixel progressive CMOS (1.411 cm)
Effective Pixels	3840 (H) × 2160 (V)
Minimum Illumination	0.005 Lux@F1.5
Shutter Speed	Auto/Manual, 1/3~1/100000s
White Balance	Auto/natural/street lamp/outdoor/manual/regional custom
Lens	C/CS
Gain Control (AGC)	Auto/Manual
S/N Ratio	>56dB
Bit Rate Control	CBR/VBR
Privacy Mask	4 areas
ROM	4GB
RAM	2GB
Electronic Image Stabilization	Yes
Defog	Yes
Motion detection	OFF/ON (4 areas, rectangular)
Audio	Built-in Mic
Video Compression	H.265, Smart H.264+, H.264, H.264H, H.264B, MJPEG (only supported by sub stream)
Encode Strategy	Instastream
Back Light Compensation	BLC/ HLC/ WDR(120dB)
Video Streaming	Main Stream: 3840 × 2160 (1–25/30 fps) Sub stream: 704 × 576 (1–25fps);704 × 480 (1–30fps) Third stream: 1920 × 1080 (1–25/30 fps) Fourth stream: 1920 × 1080 (1–25/30 fps) Fifth stream: 704 × 576 (1–25fps); 704 × 480 (1–30fps)
Resolution	8MP (3840 × 2160), 6MP (3072 × 2048/3072 × 1728), 5MP (2592 × 1944), 4MP (2688 × 1520), 3MP (2048 × 1536/2304 × 1296), 1080P (1920 × 1080), 1.3MP (1280 × 960), 720P (1280 × 720), D1 (704 × 576/704 × 480), VGA (640 × 480), CIF (352 × 288/352 × 240)

Feature	Specification
ICR	Auto (ICR)/Color/B/W
ROI	Yes (4 areas)
Audio Input	2 channels (3.5mm JACK port)
Audio Compression	G.711a; G.711Mu; G726; AAC; G.723
Audio Output	1 channel (3.5mm JACK port)
Alarm IN	2 channel In: 5mA 5V DC
Alarm Out	2 channel Out: 1000mA 30V DC/500mA 50V AC
Face Detection	Face detection, track, priority, snapshot, Upload Optimized snapshot picture; face enhancement, face exposure, face attribute extract, 6 attributes and 8 expressions: Gender, age, glasses, expressions (anger, sadness, disgust, fear, surprise, calm, happiness and confusion), Mouth mask, beard; Face matting setting: face, single inch photo Three snapshot; methods: real-time snapshot, priority snapshot, quality priority; Face angle filter Priority time setting; Support Duration Optimal, Non-living Filtering;
People Counting	Support tripwire number counting, people counting in area, and displaying and outputting yearly/monthly/daily reports. Support queue management, and displaying and outputting monthly/daily reports. Support 4 tripwire rules configuration, people counting in 4 areas, and 4 queue management functions.
ANR Technology	ANPR, track, priority, snapshot Vehicle attributes: license plate, vehicle type, vehicle color, vehicle brand Other attributes: sun visor, seat belt, smoking, phoning, in-car accessories, annual vehicle inspection mark
Video Metadata	Support human body, human face, motor vehicle and non-motor vehicle image capture and attributes extraction.
Alarm Event	No SD card; SD card full; SD card error; network disconnection; IP conflict; illegal access; motion detection; video tampering; tripwire; intrusion; fast moving; abandoned object; missing object; loitering detection; people gathering; parking detection; scene changing; audio detection; defocus detection; external alarm; face detection; people counting in area; stay alarm; people counting; people counting exception detection; safety exception, Queue Management
Bit Rate	H.264: 32 kbps-16384 kbps ; H.265: 12 kbps-16384 kbps
Protocol	HTTP; HTTPS; 8021.x; TCP; ARP; RTSP; RTP; UDP; RTCP; SMTP; FTP; DHCP; DNS; DDNS; PPPoE; IPv4/v6; SNMP; QoS; UPnP; NTP; SFTP; RTMP; Genetec; Bonjour; Multicast; ONVIF (Profile S/Profile G/Profile T); CGI; Milestone; Genetec; InstaOn; RTMP
Smart Detection	Abandoned object, moving object
Perimeter Protection	Tripwire, intrusion, fast moving (the three functions support the classification and accurate detection of vehicle and human); parking detection, loitering detection, and people gathering.

Feature	Specification
Intelligent Search	Work together with Smart NVR to perform refine intelligent search, event extraction and merging to event videos.
Ethernet	RJ-45 (10/100/1000 Base-T)
User Account	20 (Total bandwidth: 160M)
Interface Ports	1 RS-485 (baud rate range: 1200 bps-115200 bps)
Mirror	Yes
Smart Phone	iPhone, iPad, Android Phone
Micro SD	FTP; Micro SD card (256 GB); NAS; SFTP
SDK and API	Yes
Scene Self-adaptation	Yes
Operating Temperature	-30°C to +60°C (-22°F to +140°F), /Less than 95% RH
Power Source	12V DC/24V AC/PoE+ (802.3at), max. current 165mA
Power Consumption	<14.4W
Browser	IE: IE9 and later, Chrome: Chrome 42 and later, Firefox: Firefox 48.0.2 and later
Weatherproof Standard	N/A
Dimension	86 mm×74 mm×150 mm (3.39" × 2.91" × 5.91") (L × W × H)
Casing	Metal
Weight	800g

Dimensions (mm/inch)

161.6 [6.36]
149.9 [5.9]
78.4 [3.09]
1/4-20 × 6UNC

86.8 [3.42]
74.0 [2.91]

62.9 [2.48]
31.0 [1.22]
2-1/4-20 × 6UNC

Accessories : Optional

CP-UA-B08W

CP-UML-4K-AL1042

CP-UML-4K-3716

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Product casing and specifications are subject to change without prior notice