

CP-UNC-TT41L3-VM

4MP IR AI Enforcement Camera

- 1/1.8" 4MP starlight CMOS sensor (1.411 cm)
- H.265 and H.264 dual codec.
- Maximum Resolution: 2688 × 1520@25/30fps.
- Built-in 10mm~50mm lens.
- The maximum illumination distance is 30 Mtr.
- IP67, IK10 rated.



System Overview

CP PLUS cameras and NVRs that come with the ANPR technology support different plate cut-outs, as well as overview picture snapshots and video recording. This enables you to monitor in real-time the various license plates in present in the vicinity. Being embedded with the Whitelist database adds further to these cameras because that lets them control the barriers automatically. These cameras have also been inculcated with the latest WDR technology.

Functions

Algorithmic Working

This design has been embedded with the ANPR algorithm inside the device to automatically and efficiently keep a track of the cars coming in and out of the premises.



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Functions

Automatic & Accurate

The automatic number plate recognition technology is being widely used these days as this enables accurate and automatic reading of every vehicle's number plate that is crossing a border or an entrance and then that reading is automatically run through the system to detect if the vehicle should be allowed to enter or not.

Live Viewing

Unlike some, this technology enables you to record the picture feed but view it live as well at your convenience. On top of that, the advantages of high-resolution video recording are numerous.

True Day/Night (ICR)

When the scene is too dark, the image is captured by illuminating an infrared light through the camera onto the scene that greatly helps with making the scene visible for the lens. It delivers color images during the day and automatically switches to the monochrome feature as the scene darkens.

Increased Efficiency

These products have proven to be so successful due to their multiple linkages to control barriers and other automation systems to increase the proficiency and keep you safe at all times.

Vehicle Detection

The intelligent detection technology that has been induced in this camera enables it to accurately detect the number of vehicles and humans in an image. This technology also comes in handy when one wants to detect motion in the camera's frame as well as video tempering, scene changing, people gathering, parking detection, and heat map.

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.

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
Main Processor	High-performance embedded processor
Image Sensor	1/1.8" CMOS (1.411 cm)
Shutter Mode	Single shutter
Electronic Shutter Speed	Auto/Manual 1/50 s–1/100,000 s
Image Resolution	2688 (H) × 1520 (V) (OSD black background is not calculated in the pixels)
Noise Reduction	3D NR
S/N Ratio	>56dB
Min. Illumination	0.0001 lux
Day/Night	Supports ICR auto switch: IR cut-off filter (IRCF) with the polarizing filter is used during the daytime, and switches to the common IR cut-off filter at night
Focal Length	10mm–50mm Motorized
Max. Aperture	Max. F1.33
Field of View	Horizontal: 9.4°–40.8° Vertical: 5.4°–22.9° Diagonal: 10.7°–46.9°
Exposure Mode	Auto; Manual (Select from shutter values or customize shutter range)
Gain Range	0-100
Bit Rate Control	CBR; VBR
Video Resolution	4M (2688 × 1520)/ 1080P (1920 × 1080)/ UXGA (1600 × 1200)/ 720P (1280 × 720)/ D1 (704 × 576)/CIF (352 × 288)
Video Frame Rate	Main stream (2688 × 1520@25/30fps), (1920 × 1080@50/60fps) Sub stream (1600 × 1200@25/30fps)
Video Bit Rate	H.264: 32kbps–32767kbps; H.265: 32kbps–32767kbps; MJPEG: 512kbps–32767kbps
Video Compression	H.265; H.264M; H.264H; MJPEG
Picture Encoding Format	JPEG
Auto Gain Control	Support

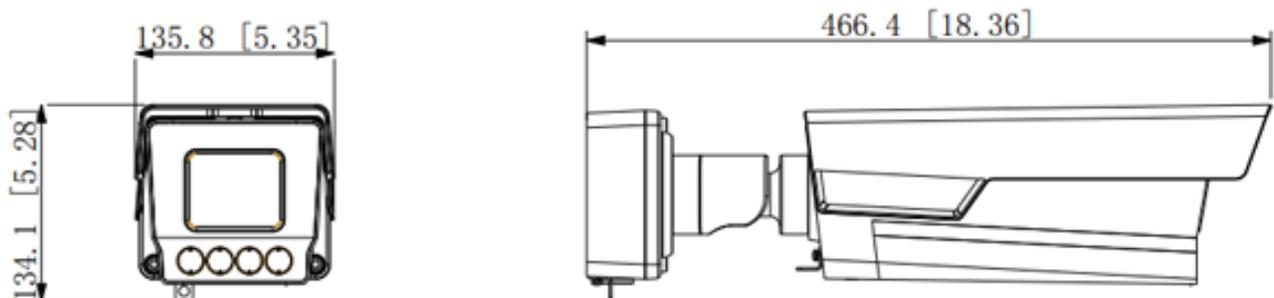
Feature	Specification
Signal Processing	Digital Signal Process
WDR	140dB
White Balance	Auto; Manual; Outdoor; Natural; Street Lamp; Partial white balance
BLC	Auto
HLC	Auto
Bad Pixel Correction	Yes
Edge Enhancement	Yes
Composite Image	Supports combining up to 3 source images, and 1 close-up image into a composite image
Trigger Mode	Video detection/radar*
OSD Overlay	Time, address, device SN, lane No., plate number, plate color, vehicle logo, vehicle type, vehicle color, vehicle size, vehicle speed, country/region, event (violation name), and motorcycle attributes (type, number of people, and helmet)
Storage	1, supports maximum 256 GB SD card local storage
Alarm Event	Storage full, storage error, external alarm, no storage space, license plate blocklist, illegal access, and security fault
Automatic Network Replenishment (ANR)	Platform, FTP (SD card is required)
Image Tampering Prevention	Verifies watermarks in videos and images
Time Synchronization	NTP; GPS
Security	Authorized username and password, MAC address binding, HTTPS encryption, and network access control
Positioning	GPS
Auto Registration	Yes
Vehicle with NO License Plate Detection	Support
Effective Range for ANPR	30mtr
Detection Accuracy (min)	98%
Speed Detection Range	0 km/h–180 km/h
Target Detection	Motor vehicle; motorcycle

Feature	Specification
Vehicle Brand/Logo Recognition	Acura; Alfa Romeo; Ashok Leyland; Aston Martin; Audi; Baic; Bentley; Benz; BMW; Buick; BYD; Cadillac; Chery; Chevrolet; Chrysler; Citroen; Dacia; Daihatsu; Datsun; Dodge; DS; Ferrari; Fiat; Force; Ford; Foton; Geely; GMC; Great Wall; Hino; Honda; Hyundai; Infiniti; Isuzu; Iveco; Jac; Jaguar; Jeep; Kia; Kinglong; Land; Lexus; Lifan; Lincoln; Mahindra; MAN; Maserati; Mazda; Mercury; MG; Mini; Mitsubishi; Nissan; Opel; Peugeot; Porsche; Renault; Rolls Royce; Saab; Scania; Seat; Skoda; Smart; Subaru; Suzuki; Tata; Tesla; Toyota; UD; Volkswagen; Volvo
Vehicle Color Recognition	White, pink, black, red, yellow, gray, blue, green, dark orange, purple, brown, and silver gray (color recognition is not supported during night time)
ANPR	Adopts CP Plus developed algorithms to recognize license plate numbers and letters
Vehicle Type Recognition	Vehicle head: Large bus, heavy truck, medium truck, sedan, van, light truck, medium bus, SUV, MPV, and pickup Vehicle tail: SUV, large bus, sedan, light truck, pickup, medium truck, van, and heavy truck
Motor Vehicle Violation Capture*	Speeding; driving slow; wrong-way driving; illegal lane change
Motorcycle Violation Capture*	Overloading, not wearing a helmet
Traffic Flow Detection*	Statistics on vehicle flow, average speed, vehicle type, lane occupancy, average time headway, average queue length, and road status
Traffic Event*	Motor vehicle illegal stopping on the roadway; traffic congestion
Network	1 × RJ-45 Ethernet port, 10/100/1000 M network transmission
SDK and API	Yes
RS-485	2, connecting to devices such as radar
RS-232	2, con is used for serial debugging and R T G is for connecting to radars
Alarm Input	3 channels
Alarm Output	2 channels. 1 for relay, and 1 for optocoupler
Audio Compression	G.711A; G.711Mu; G.726
Audio Input	1 Channel
Audio output	1 Channel
Lane Coverage	1–2 lanes
IR Distance	23 m–30 m (75.46 ft–98.43 ft) (adjustable brightness)
IR Light	Yes

Feature	Specification
IR Number	4 illuminators (830 nm LED illuminators, adjustable brightness)
Protocol	HTTP, HTTPS, TCP/IP, UDP, ICMP, IGMP, FTP, DHCP, DNS, DDNS, PPPoE, NTP, SSL, RTP, RTSP, RTCP, UPnP, SMTP, SNMP, IGMP, QoS, 802.1X, IPv4 and IPv6, ONVIF (Profile S, Profile G, Profile T)
Browser	IE: IE 9–11, Chrome: Chrome 41 and earlier, Firefox: Firefox 49 and earlier, For Win 10 users, run the browser as administrator
Power Supply	12–36 VDC, PoE
Power Consumption	≤ 13W
Operating Temperature	-40°C to +65°C (-40°F to +149°F)
Storage Temperature	-40 °C to +65 °C (-40 °F to +149 °F)
Operating Humidity	10%–90%
Storage Humidity	10%–90%
Protection Grade	IP67 & IK10
Dimensions	466.4 mm × 135.8 mm × 134.1 mm (18.36" × 5.35" × 5.28") (L × W × H)
Net Weight	3.9 kg
Installation	Supports installation with universal mounting bracket, or side-mounted on pole with mounting bracket

***Additional Hardware/Software Required**

Dimensions (mm/inch)



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