

# CP-UNC-TT41L3-VMD-Q

## 4MP IR AI Enforcement Camera

- 1/1.8" 4 MP CMOS sensor (1.411 Centimeters)
- Max. 4MP (2688 × 1520)@30fps
- H.265, H.264M, H.264H, H.264B, MJPEG
- 10 mm–50 mm Motorized Lens
- WDR(140dB), Day/Night(ICR), 3D NR, BLC, HLC
- IR Range of 30 Mtr., IP67, IK10



### 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.

### CTC Technology

CP PLUS Trusted Core Technology is a multi-layered security architecture that brings together the best of cyber security practices and technological intelligence. It is not just an enhancement; it is a complete redefinition of how surveillance should function in today's digital landscape - more intelligent, more secure, and more reliable than ever before.



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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.

#### 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.

#### 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 parking detection.

### 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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## 4MP IR AI Enforcement Camera

Feature	Specification
Image Sensor	1/1.8" 4 MP CMOS sensor (1.411 Centimeters)
Effective Pixels	2688 (H) × 1520 (V)
Minimum Illumination	0.0001 Lux
Shutter Speed	Auto/Manual 1/50 s–1/100,000 s
White Balance	Auto, Manual, Outdoor, Natural, Street Lamp, Partial white balance
Lens Type	Motorized vari-focal
Max. Aperture	Max. F1.2
Lens	10 mm-50 mm
Video Compression	H.265, H.264M, H.264H, H.264B, MJPEG
Back Light Compensation	BLC/ HLC/ WDR(140dB)
S/N Ratio	> 56 dB
Angle of View	Horizontal: 10°–44°, Vertical: 6°–24°, Diagonal: 12°–51°
Resolution	4M (2688 × 1520), 1080p (1920 × 1080), UXGA (1600 × 1200), 720p (1280 × 720), D1 (704 × 576), CIF (352 × 288)
Frame Rate	Max. 30 fps Main stream (2688 × 1520@30 fps), sub stream (1600 × 1200@30 fps)
Noise Reduction	2D NR, 3D NR
Video format	PAL/ NTSC
IR Led	Support
IR	IR Range of 30 Mtr.
IR lane covered	1–2 lanes
IR Number	4 IR (850 nm LED illuminators, adjustable brightness)
Day/Night	Supports ICR auto switch: IR cut-off filter (IRCF) with the polarizing filter is used during the daytime, and switches to the IR transmitting filter at night
Image Resolution	2688 (H) × 1520 (V) (OSD black background is not calculated in the pixels)
Protocol	SFTP, IPv6, IPv4, DNS, RTCP, NTP, RTP, HTTP, HTTPS, SNMP V3, TCP/IP, PPPoE, NFS, UDP, ICMP, SSL, DHCP, SMTP, RTSPS, ONVIF (Profile S, Profile G, Profile T), unicast, multicast

Feature	Specification
Bit Rate	H.264: 32 kbps–32767 kbps, H.265: 32 kbps–32767 kbps, MJPEG: 512 kbps–32767 kbps
Bit Rate Control	CBR/VBR
Exposure Mode	Auto, Manual (Select from shutter values or customize shutter range)
Speed Detection Range	0 km/h–180 km/h
SDK and API	Support
Ethernet	1 × RJ-45 Ethernet port, 10/100M network transmission
Security	Authorized username and password, MAC address binding, HTTPS encryption, and network access control
Alarm Event	Storage full, Storage error, External alarm, No storage card, License plate blocklist, Illegal access, Network disconnection, IP conflict
Cyber Security	AES 256-bit Encryption, Configuration encryption, trusted execution, Digest, security logs, WSSE, account lockout, syslog, video encryption, IP/MAC filtering, HTTPS, trusted upgrade, trusted boot
OSD	Camera title, Date & Time
Motorcycle vehicle Violation Capture	Captures traffic violations including carrying passenger, not wearing helmet, and wrong-way driving
Motor Vehicle Violation Snapshot	Speeding, driving slow, wrong-way driving, illegal lane change
Defog	Support
Edge Enhancement	Support
Traffic Event	Motor vehicle illegal stopping on the roadway, traffic congestion
Traffic Flow Detection	Statistics on vehicle flow, average speed, vehicle type, lane occupancy, average time headway, average queue length, and road status
Positioning	GPS
Image Tampering	Verifies watermarks in videos and images
Image Encoding Format	JPEG
Gain Scope	0–100
Time Synchronization	NTP, GPS
Target detection	Motor vehicle, Motorcycle
Auto Connect	Support

Feature	Specification
Vehicle Color Recognition	White, Pink, Black, Red, Yellow, Gray, Blue, Green, Deep orange, Purple, Brown, and silver Gray (color recognition is not supported during nighttime)
Trigger Mode	Video trigger/ Radar trigger
Vehicle logo	Acura, Alfa Romeo, Ashok Leyland, Aston martin, Audi, Bentley, Benz, BMW, Cadillac, Chevrolet, Citroen, Dacia, Daihatsu, Datsun, Ferrari, Fiat, Force, Ford, GMC, Honda, Hyundai, Infiniti, Iveco, Jaguar, Jeep, Kia, Land, Lexus, Mahindra, Maserati, Mazda, Mercury, MG, Mini, Mitsubishi, Nissan, Peugeot, Porsche, Renault, Rolls-Royce, Seat, Skoda, Smart, Suzuki, Tata, Tesla, Toyota, Volkswagen, Volvo
Composite Image	Support combining up to 3 source images, and 1 closeup image into a composite image
Bad Pixel Correction	Support
ANPR Technology	Adopts developed algorithms to recognize license plate numbers and letters
RS-485	2, connects to devices such as radars
Vehicle Type Recognition	Vehicle head: SUV, Large bus, Sedan, Light truck, Pickup, Heavy truck, Medium truck, Van, Medium bus, MPV Vehicle tail: SUV, Large bus, Sedan, Light truck, Pickup, Heavy truck, Medium truck, Van
RS-232	2, connects is used for serial debugging and R T G is for connecting to radars
Automatic Network Recovery (ANR)	Platform and FTP (SD card is required)
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)
Audio Input	1 Channel
Audio Output	1 Channel
Alarm IN	3 Channel
Alarm Out	2 Channels 2 for relay
Browser	Microsoft Edge, Chrome: Chrome 41 and earlier, Firefox: Firefox 49 and earlier For Win 10 users, run the browser as administrator
Certificates	ISO9001
Power Source	12-36 VDC 3.33A, PoE
Power Consumption	≤ 13 W

Feature	Specification
Storage	SFTP, NAS, Mirco SD card (Max. 512GB)
Weatherproof Standard	IP67 & IK10
Operating Temperature	−40 °C to +65 °C (−40 °F to +149 °F)
Operating Humidity	10%-90% (RH)
Storage Temperature	−40 °C to +65 °C (−40 °F to +149 °F)
Storage Humidity	0%-90% (RH)
Dimension	466.4 mm × 135.8 mm × 134.1 mm
Weight	3.9 kg

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**Company Name:**

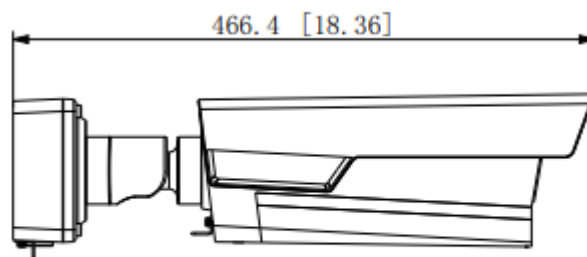
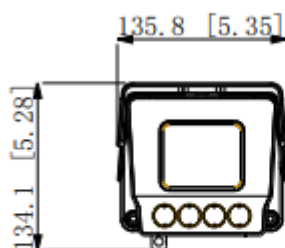
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Dimensions (mm/inch)



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