

4MP Intelligent Traffic IP Camera, ANPR, Dual Illumination, Light+Sound



ANPR INTELLIGENT TRAFFIC CAMERA

EYEMAX

26 ~ 65ft Capture Distance • Vehicle speed up to 74 MPH • Dual Illuminators (IR + White Light) IR mode white light turns on motion detection • Red & Blue Warning Light + Siren(Sound Warning) • 2 Way Audio (Built-in Mic + Speaker) • Motorized 8 ~ 32mm VF Lens • 140dB WDR • IP67 + IK10 • 12VDC

Overview

Smart ANPR Camera utilizes deep learning algorithms for vehicle recognition, including license plates, brands, and colors. It serves in scenarios requiring vehicle detection and recognition, supporting IVS for event detection and sound and light alarms. The camera operates independently, enhancing security for factories and compounds, while simplifying the installation process. Additionally, it features dustproof, waterproof, and tamper-proof design, with IP67 and IK10 ratings.

Vivid Images

With its intuitive CMOS image sensor offers WDR, a high signal-to-noise ratio, and exceptional sensitivity,

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ensuring vivid 24/7 images. It's an ideal choice for the traffic industry.

Impressive Performance

The high-performance CPU processor analyzes motor and non-motor vehicles in real time, extracting valuable information on their features. This data empowers effective decision-making.

High-level Protection

Resilient and versatile camera boasts integrated features like an illuminator and junction box. With an IP67 rating and low power consumption, it excels in harsh environments.

Easy Installation

Easy to install and commission, the camera has an LED illuminator and motorized vari-focal lens embedded in its structure.

Multi-dimensional Data Sensing

Ideal choice for scenarios requiring license plate recognition. Capable of capturing over ten traffic violations and supporting traffic information collection and event detection, it's perfectly suited for road scenarios.

FEATURES

- High-performance CMOS image sensor and processor that supports continuously extracting metadata 24/7
- Adopts intelligent deep learning algorithms and supports recognition of unlicensed vehicles and the type, brand and color of vehicles
- Built-in signal port, data port, communication port and remote controllers assist in controlling external devices such as entry and exit barriers
- Built-in LED for simplified installation and commissioning
- All-in-one structure with junction box and bracket, and it is also low power consumption

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- IP67 and IK10 rated
- Supports intrusion and loitering detection and triggers light and voice alarms when perimeter events occur to actively deter targets. Custom audios can also be imported and edited.
- Easily adapts to scenarios through its motorized vari-focal lens

SPECIFICATIONS

Camera	
Image Sensor	1/1.8" CMOS
Image Resolution	2688 × 1520
Electronic Shutter Speed	Auto/Manual 1/25 s–1/100,000 s
Max. Detection Speed	74.56 mph (120 km/h)
Min. Illumination	0.001 Lux@F1.6 (Color, 30 IRE) 0.0002 Lux@F1.6 (B/W, 30 IRE) 0 Lux (Illuminator on)
ROM	4 GB
RAM	1 GB
S/N Ratio	>56 dB
Scanning System	progressive scanning
Lens	
Focal Length	8–32 mm
Field of View	H: 39.9° (W)—15.1° (T) V: 21.8° (W)—8.5° (T) D: 46.6° (W)—17.4° (T)
Focus Control	Auto, area focus, manual
Number of Lens	1
Lens Type	Motorized Vari-focal
Max. Aperture	1.6
Iris Control	P-Iris
DORI Distance (Wide)	Detect: 160.0 m (524.93 ft) Observe: 64.0 m (209.97 ft) Recognize: 32.0 m (104.99 ft) Identify: 16.0 m (52.49 ft)

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DORI Distance (Tele)	Detect: 406.9 m (1334.97 ft) Observe: 162.8 m (209.97 ft) Recognize: 81.4 m (267.06 ft) Identify: 40.7 m (133.53 ft)
Illuminator	
Illuminator Number	4
Illuminator On/Off Control	Auto, manual
Illuminator Type	Dual Illuminators (730 nm IR/warm light)
Illumination Distance	ANPR: 20 m (65.62 ft) Video monitoring: 60 m (196.85 ft)
Smart Illumination	According to the brightness of the environment, the camera automatically adjusts the intensity of its light to reveal the details of moving targets. Devices with warm light can automatically adjust the light intensity according to the time.
Infrared Wavelength	730 nm
Video	
Video	Main stream: 4M (2688 × 1520)/1080p (1920 × 1080)/720p (1280 × 720) Sub stream: 720p (1280 × 720)/960H (960 × 576, 960 × 480)/D1 (704 × 576, 704 × 480)/CIF (352 × 288, 352 × 240)
Stream	PAL: Main stream (2688 × 1520@25 fps, 1920 × 1080@25 fps, 1280 × 720@25 fps), sub stream (1280 × 720@25 fps, 960 × 576@25 fps, 704 × 576@25 fps, 352 × 288@25 fps) NTSC: Main stream (2688 × 1520@30 fps, 1920 × 1080@30 fps, 1280 × 720@30 fps), sub stream (1280 × 720@30 fps, 960 × 480@30 fps, 704 × 408@30 fps, 352 × 240@30 fps)
Video Compression	H.264H; H.264B; H.264M by default; H.265; MJPEG; H.264M
Video Bit Rate	H.264B: 2,179 kbps-13,074 kbps H.264M: 2,179 kbps-13,074 kbps H.264H: 2,179 kbps-13,074 kbps H.265: 2,179 kbps-13,074 kbps MJPEG: 6,537 kbps-39,223 kbps
Scene Self-adaptation (SSA)	Yes
Gain Control	Manual; Auto
Noise Reduction	3D NR
Region of Interest (RoI)	Yes, 3
Image Tampering Prevention	Yes. Watermarks can be added to videos and images. The watermark can also be verified.

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Bit Rate Control	CBR; VBR
Function	
Storage	Built-in TF card port. Supports Kingston 16 G, 32 G, 128 G, 256 G; Dahua card 16 G, 32 G, 128 G, 256 G; SanDisk 16 G, 32 G, 128 G, 256 G
Restricted List/Trusted List	Allowlist: 110,000 Blocklist: 110,000
IVS	Intrusion detection, loitering detection, up to 4 areas can be set.
Basic Event	Alarms for events of defocus, no storage card, storage card no space, storage card error, network disconnection, IP conflict, and illegal access.
Sound and Light Alarm	Yes, blue & red indicator, and supports broadcasting custom audio.
Alarm Linkage	Upload to FTP/Memory card, notify monitoring center, send e-mail, trigger alert output, snapshot and active deterrence
Capture Distance	8 m-20 m (26.25 ft-65.62 ft)
Detected Width	6 m-8 m (19.69 ft-26.25 ft)
Network	
Network Protocol	HTTP / Https / 802.1x / TCP / ARP / RTSP / RTP / UDP / RTCP / SMTP / FTP / DHCP / DNS / IPv4/v6 / NTP / SFTP / DDNS / SNMP / PPPoE
API	Yes
SDK	Yes
Interoperability	ONVIF (Profile S/Profile G/Profile T) / CGI / ITSAPI / P2P
Management Software	DSS Pro / DSS Express / Cybercity / Smart PSS
Security	Username and password; MAC address; HTTPS; IEEE 802.1x; network access control
Browser	Plug in: IE 9, 10, 11 / Chrome 52 and earlier versions / Firefox 42 and earlier versions No plug in: Chrome 92 and later versions
Image	
Image Encoding Format	JPEG
Image Setting	Brightness / contrast / saturation / gamma / sharpness / gain / white balance
Day/Night	IR filter, support three modes: color/B/W/auto
WDR	140 dB
HLC	Yes

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BLC	Yes
White Balance	Auto / Regional Custom / Manual / Outdoor / Natural / Street Lamp
Digital Detail Enhancement (DDE)	Yes
OSD Overlay	Supports overlay of time / address (position of channel) / lane (number/direction) / plate (number and color) / vehicle (speed / color / type)
Audio	
Audio Port	Yes
Built-in MIC	Yes; Pick-up distance: 3 m (9.84 ft), Sampling Rate: 48 k.
Built-in Speaker	Yes; Power: 2 W
Port	
Audio Output	1 channel (RCA port)
Network Port	RJ-45 (10/100/1000 self-adaptive Ethernet Port)
Alarm Input	2, optocoupler input (wet node on-off value: 5 V)
Alarm Output	2, relay output (2A 30 VDC/0.5A 125 VAC), which can connect to devices such as barriers
RS-485	2 (half duplex, Transparent, DHRS, Push Data through Serial Port)
Reset Button	Yes
Wiegand	1 channel, SHA-1 26 bit
Performance	
Maximum Number of Passed Vehicles	10,000
Max. Number of Connections	10
Intelligence	
AI Recognition	Recognizes vehicle types, vehicle signs, vehicle color, vehicle plate, plate, vehicle without plate.
Video Metadata	Displays the intelligent frame, plate and vehicle paths.
Vehicle Brand	Recognizes 147 vehicle logos.
Vehicle Color	Recognizes 12 colors: Grey, black, white, silver, blue, green, purple, red, orange, pink, brown, and yellow.
Vehicle Type Recognition	Recognizes 9 vehicle types: Large Bus, Heavy Truck, Medium Truck, Sedan, Van, Light Truck, Medium Bus, SUV, MPV, Pickup

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Country and Region Supported by ANPR	<p>Baseline support: GCC (U.A.E., Saudi Arabia, Morocco, Oman, Iraq, Egypt, Jordan, Qatar, Kuwait, Bahrain, Lebanon), Europe (Netherlands, France, Germany, Britain, Italy, Poland, Belgium, Bulgaria, Serbia, Slovakia, Spain, Denmark, Turkey, Israel, Czech Republic, Bosnia and Herzegovina, Switzerland, Austria, Hungary, Romania, Lithuania, Latvia, Sweden, Estonia, Portugal, Greece, Slovenia, Luxembourg, Palestine, Lebanon, Ireland, Finland, Norway, Croatia, North Macedonia), Russian-speaking regions (Russia, Ukraine, Kyrgyzstan, Uzbekistan, Moldova, Lithuania, Latvia, Georgia, Azerbaijan, Turkmenistan) SADC (Uruguay, Paraguay, Brazil, Argentina, Chile, Colombia, Peru, Ecuador, Guyana) North America (United States, Canada)</p> <p>Can be customized: Mongolia, Japan, Philippines, Vietnam, Laos, Cambodia, Myanmar, Thailand, Malaysia, Singapore, Indonesia, Bangladesh, India, Pakistan, Curacao, Mexico, Guatemala, Costa Rica, Australia, New Zealand, Tunisia, Algeria, Ethiopia, Tanzania, Uganda, Equatorial Guinea, Japan, Zambia, Mozambique, South Africa, Mauritius</p>
Capture Rate	In the recommended installation and lighting condition, the vehicle capture rate $\geq 99\%$
Recognition Rate	In the recommended installation and lighting condition, the recognition rate for positive and departing vehicles $\geq 96\%$; the recognition rate for European vehicle plates $\geq 98\%$
General	
Remote control	Yes
Communication Band	433 MHz; 868 MHz
Remote Control Distance	15 m (49.21 ft) (In an open, undisturbed environment)
Power Supply	12 VDC, 2 A and POE:802.3at, Type 2, Class 4, (44V to 57V), 0.455A to 0.351A, max.20W
Power Consumption	Power consumption in different conditions: No lighting < 6 W / Lighting < 12 W / Speaker and Red/Blue Light Warning on < 17 W
Protection	IK10; IP67
Material	Aluminum alloy body+Plastic
Product Dimensions	396.0 mm × 120.8 mm × 127.8 mm (15.59" × 4.76" × 5.03") (L × W × H)
Packaging Dimensions	445.0 mm × 238.0 mm × 229.0 mm (17.52" × 9.37" × 9.02")
Net Weight	2.3 kg (5.07 lb)
Gross Weight	3.2 kg (7.05 lb)
Storage Humidity	-40°C to +70°C (-40°F to +158°F)
Storage Temperature	$\leq 95\%$ (non-condensing)

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Operating Temperature	-30°C to +65°C (-22°F to +149°F)
Operating Humidity	10%-90% (non-condensing)
Certifications	CE-EMC; CE-LVD; CE-RED; FCC