DHI-IPMECS-3624-E44-F4

Dahua 4MP Access ANPR Kit



Series Overview

The Integrated Smart ANPR Camera (Cabin-style) integrates a camera, LED screen, illuminator, and speaker into a single, compact unit. It utilizes advanced deep learning parking algorithms to provide 24/7 monitoring, automatically detecting violations and capturing snapshots of both motor and non-motor vehicles. The system is equipped to extract detailed vehicle attributes, including license plates, models, brands and colors. You can fully customize the content displayed on the screen and set up voice broadcasts. Additionally, its all-in-one design simplifies installation and significantly reduces cabling costs.

Functions

Smart Illumination

The software can control the illuminator by turning it on and off and adjusting its brightness level based on the environment, reducing light pollution and power consumption.

Intelligent Defog

Adopts intelligent heating technology, effectively preventing fogging on glass, and ensuring reliable operation in all weather conditions.

Brightness Adjustment

Supports manual screen brightness adjustment via the device webpage or automatic adaptive brightness based on ambient light levels, ensuring use for both daytime and nighttime.

- Integrates a camera, LED screen, illuminator, and speaker into a single, compact unit. Its all-in-one design simplifies installation and significantly reduces cabling costs.
- Extracts detailed vehicle attributes including license plates, models, brands and colors through its third-generation deep learning parking algorithms with the vehicle capture rate ≥ 99%.
- Features a P3.0 LED screen that clearly shows text and numbers, and offers auto-brightness adjustment.
- Supports audio broadcast with fully customizable messages.
- Equipped with 9 LEDs that emit infrared and white light, and uses smart illumination with time and brightness controls.
- The lens can be tilted and rotated for flexible positioning.
- Adopts intelligent defogging technology to quickly remove ice and mist from the glass, allowing the camera to work in all weather conditions.



Remote Management and Maintenance

Supports connecting peripherals such as barriers and radars via RS-485, to monitor the device status in real time. This facilitates remote device management and maintenance, enhances debugging and operational efficiency, and reduces construction and maintenance costs.

Scene

It is ideal for use at the entrances and exits of shopping malls, hospitals, schools, residential communities, office buildings and parking lots.

Technical Specification

Camera

Image Sensor	1/2.9" CMOS
Pixel	4 MP
Image Resolution	2688 (H) × 1520 (V) (This resolution does not account for the OSD black border.)
Electronic Shutter Speed	Auto/Manual 1/25 s–1/10,000 s
Max. Detection Speed	30 km/h
ROM	4 GB
RAM	1 GB
S/N Ratio	39.03 dB

Scanning System	Progressive scanning

Lens

Focal Length	3.6 mm
Field of View	3.6 mm: H: 86.6°; V: 46.2°; D: 103.4°
Focus Control	Manual
Number of Lens	1
Lens Type	Fixed-focal
Max. Aperture	F1.6
Iris Control	Fixed

Illuminator

Illuminator Number	9 (Dual light, IR/White light)
Illuminator Color Temperature	3000 K
Illuminator Brightness Adjustment	Adjustable
Illuminator On/Off Control	Auto; Manual
Illumination Distance	3.6 mm: 8 m (26.25 ft)
Smart Illumination	Supports automatic adjustment based on ambient brightness, and the warm light device also supports automatic adjustment based on time
Infrared Wavelength	850 nm

Video

Video Resolution	Main stream: 4MP (2688 × 1520); 1080p (1920 × 1080); 720p (1280 × 720); Sub stream: 720P (1280 × 720); 960H (960 × 576); D1 (704 × 576); CIF (352 × 288)
Video Frame Rate	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 × 576@30 fps, 704 × 576@30 fps, 352 × 288@30 fps)
Video Compression	H.265;H.264B;H.264M;H.264H;MJPEG
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.
Privacy Masking	Yes
Bit Rate Control	VBR;CBR

Network

Network Protocol	HTTP;HTTPS;RTSP;UDP;SMTP;NTP;DHCP;DNS;DDNS;802.1x;FTP;SNMP;ARP;RTCP;RTP;PPPoE;TCP;SFTP;IPv4/IPv6
API	Yes
SDK	Yes
Interoperability	CGI;P2P;ITSAPI;ONVIF (Profile M & Profile S & Profile T)
Security Mode	Username and password; MAC address; HTTPS; IEEE 802.1x; network access control
Browser	With plug-ins: Supports IE 9, 10 and 11, Firefox 52 and earlier versions, and Chrome 42 and earlier versions. Without plug-ins: Supports Chrome 92 and later versions.

Image

Image Encoding Format	JPEG
Image Setting	Brightness; Contrast; Saturation; Gamma; Sharpness; Gain; White Balance
Day/Night	Features IR filter and 3 modes: color, black and white and auto
WDR	100 dB
HLC	Yes
BLC	Yes
White Balance	Auto;Manual;Regional Custom;Outdoor;Natural;Street Lamp
OSD Overlay	Supports overlay of time; address (position of channel), lane (number/direction), plate (number and color), vehicle (color and model)

Audio

Built-in Speaker	Yes, 10 W

Port

Network Port	1, 100 Mbps Ethernet port (RJ-45)
Storage	TF card slot
Alarm Input	2-channel opto-isolated input (digital quantity)
Alarm Output	2-channel relay output, which can connect to devices such as barriers
RS-485	1 (connecting the barriers, radars, and other peripheral devices, and supporting remote viewing of the operation status)
Reset Button	Yes

Performance

Maximum Number of Passed Vehicles	10000
Max. Number of Connections	20

Function

Storage	Built-in 1 TF card port. Supports Kingston 16 GB, 32 GB, 64 GB, 128 GB, 256 GB; Dahua 16 GB, 32 GB, 64 GB, 128 GB, 256 GB; SanDisk 16 GB, 32 GB, 64 GB, 128 GB, 256 GB
Restricted List/Trusted List	Allowlist: 110,000; Blocklist: 110,000

Basic Event	Triggers alarms such as no SD card, low SD card space, SD card error, offline, IP conflict, and unauthorized access
Voice Broadcast	Yes
Alarm Linkage	Uploads to FTP/memory card, notifies monitoring center, sends email, triggers alarm output and snapshots
Capture Distance	2.5 m–6 m (8.20 ft–19.69 ft)
Detected Width	4 m (13.12 ft)

Intelligence

AI Recognition	Recognizes the models, brands, colors and plates of vehicles. It also recognizes vehicles that do not have plates.
Video Metadata	Yes
Vehicle Brand	Recognizes 147 vehicle brands.
Vehicle Color	Recognizes 12 colors: Grey, black, white, silver, blue, green, purple, red, orange, pink, brown, and yellow.
Vehicle Type Recognition	Recognizes 10 vehicle models, including large bus, heavy truck, medium truck, sedan, van, light truck, medium bus, SUV, MPV, and pickup
Country and Region Supported by ANPR	Baseline support：10 options (85 countries) General: Supports universal characters GCC (U.A.E., Saudi Arabia, Morocco, Oman, Iraq, Egypt, Jordan, Qatar, Kuwait, Bahrain, Palestine, Lebanon) South Africa: South Africa, Tanzania, Mozambique, Zambia, Uganda, Equatorial Guinea, Mauritius, Kenya South Asia Region (India Region): India, Maldives 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, Ireland, Finland, Norway, Croatia, North Macedonia) South American Economies Collection (Uruguay, Paraguay, Brazil, Argentina, Chile, Colombia, Peru, Ecuador, Guyana, Bolivia) Mexico and other countries: Mexico, Costa Rica, Curacao, Guatemala Eurasian Collection (Russia, Ukraine, Kazakhstan, Kyrgyzstan, Uzbekistan, Tajikistan, Moldova, Georgia, Azerbaijan, Turkmenistan) North America (United States, Canada) North Africa Region Collection: Tunisia, Morocco, Algeria, Libya The baseline algorithm is supported for the following 19 countries: Republic of Korea, Indonesia, Singapore, Cambodia, Australia, Thailand, Brazil, Nigeria, Pakistan, Vietnam, Mongolia, Bangladesh, Myanmar, Philippines, Laos, Iraq, Japan, Maldives, Nepal
Capture Rate	When used according to the recommended installation requirements and lighting conditions, the vehicle capture rate ≥ 99%.
Recognition Rate	When used according to the recommended installation requirements and lighting conditions, the recognition rate for vehicles departing in the assigned direction≥ 96%, and the recognition rate for European vehicle plates ≥ 98%.

Screen

Display Screen Type	LED (4 lines, 4 letters each line)
Display Screen Dimensions	191.7 mm × 191.7 mm × 14.5 mm (7.55" × 7.55" × 0.57") (H × W × H)
Display Color	Red, green, and yellow
Display Contents	Text and numbers
Pixels Configuration	1R1G
Screen Resolution	64 × 64
Display Screen Brightness	2000 cd/m²

General

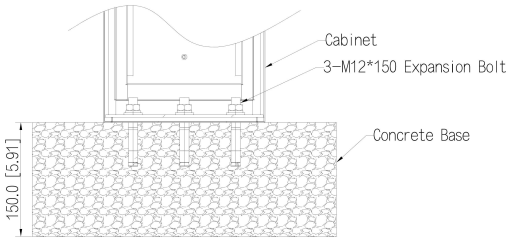
Power Supply	110–230 VAC
Power Consumption	<70 W
Defog (Glass Heating)	Supports auto defogging
Protection	IP54
Anti-corrosion Level	Basic Protection *The products are designed for general use and are applicable even in areas with no specific requirements for anti-corrosion protection.
Material	Metal and glass
Product Dimensions	1360 mm × 242 mm × 200 mm (53.54" × 9.53" × 7.87") (L × W × H)
Packaging Dimensions	1480 mm × 354 mm × 270 mm (58.27" × 13.94" × 10.63") (L × W × H)
Net Weight	16.5 kg (36.38 lb)
Gross Weight	19 kg±1 kg (41.89 lb±2.20 lb)
Storage Humidity	10%–90% (RH), non-condensing
Storage Temperature	–40 °C to +70 °C (–40 °F to +158 °F)
Operating Temperature	–30 °C to +65 °C (–22 °F to +149 °F)
Operating Humidity	10%–90% (RH), non-condensing
Certifications	CE-EMC; CE-LVD;

Ordering Information

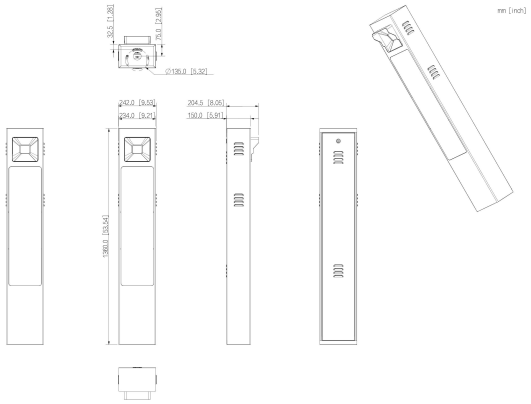
Type	Model	Description
Access ANPR Kit	DHI-IPMECS-3624-E44-F4	Dahua 4MP Access ANPR Kit

Installation

mm [inch]



Dimensions (mm[inch])



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