

DHI-IPMECS-2234-IZ

Dahua 4MP Access ANPR Kit



System Overview

The Access ANPR Kit Series contains AI chips and the advanced Starlight CMOS image sensor. Combined with the third-generation deep learning parking algorithms, cameras in this series perform detection 24/7 and take snapshots of motor and non-motor vehicles. They also extract attributes such as the model, logo, series and color of vehicles. They are ideal for scenes that use the same barrier to control vehicle entry and exit, as they take snapshots using video algorithms. These cameras are also easy to install and deploy. The integrated LED display further simplifies activities, as you can customize the content to be displayed on it, set up voice broadcasts and display QR codes that are sent from the platform. It is a great solution for scenes that require unattended management.

Functions

Vivid Images

With its intuitive CMOS image sensor, the camera has WDR, a high signal-to-noise ratio, and is highly sensitive, producing vivid images 24/7, making it ideal for use in the traffic industry.

Smart Illumination

The built-in 485 illuminator can be controlled through the webpage. It supports the normally open and normally closed alarm output modes, and easily adapts to scenes by adjusting itself according to the brightness of the environment.

- High-performance CMOS image sensor and processor that supports continuously extracting metadata 24/7.
- Continuously extracts metadata 24/7, and the vehicle capture rate and license plate recognition rate both reach 99.9%.
- Seamlessly switches between its embedded warm light and IR illuminator, and automatically turns on and off, and adjusts its brightness based on the environment, reducing light pollution and power consumption.
- The RS-485 port is used to connect to peripherals, such as barriers and radars, to obtain the working status of devices in real time, and perform remote operations and device health management.
- The intelligent defogging technology prevents the glass from freezing and fogging over, allowing the device to work in all weather conditions.
- Uniquely designed to consume very little power and is IP54 rated.
- Easily adapts to scenarios through its motorized vari-focal lens.









Impressive Performance

The high-performance CPU processor extracts and analyzes information on motor and non-motor vehicles in real time, providing valuable information on their features. This information is useful for effective decision making.

Easy Installation

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

Brightness Control

The brightness can be manually adjusted through the camera I/O or automatically adjusted based on the surrounding environment.

Scene

Suitable for shopping malls, hospitals, schools, communities, office buildings and stations.

Technical Specification					Video Compression	H.264H; H.264B; H.265; MJPEG; H.264M		
Camera							H.264B: 2,179 kbps–13,074 kbps;	
Image Sensor		1/1.8" CMOS				Video Bit Rate	H.264M: 2,179 kbps–13,074 kbps; H.264H: 2,179 kbps–13,074 kbps; H.265: 2,179 kbps–13,074 kbps;	
Image Resolution		2688 (H) × 1520 (V) (OSD black edge is not included)					MJPEG: 6,537 kbps–39,223 kbps	
Electronic Shutter Speed		Auto/Manual 1/25 s-1/10,000 s				Scene Self-adaptation (SSA)	Yes	
Max. Detection Speed		60 km/h				Gain Control	Manual; Auto	
Min. Illumination		0.001 lux@F1.4 (Color, 30 IRE) 0.0002 lux@F1.4 (B/W, 30 IRE) 0 lux (Illuminator on)				Noise Reduction Region of Interest (RoI)	3D NR Yes, 3	
ROM	ROM					Image Tampering	Yes. Watermarks can be added to videos and images. The	
RAM						Prevention	watermark can also be verified.	
		2 GB >56 dB				Privacy Masking	Yes	
S/N Ratio						Bit Rate Control	CBR/VBR	
Scanning Sys	item	Progressive scanning				Network	Network	
Lens Focal Length	Lens Focal Length		nm			Network Protocol	HTTP; Https; 802.1x; TCP; ARP; RTSP; RTP; UDP; RTCP; SMTP; FTP; DHCP; DNS; IPv4/v6; NTP; SFTP; DDNS; SNMP; PPPOE	
Field of View	1	H: 98.1°-46.1	.°; V: 54.0°–26.	0°; D: 114.6°–5	2.8°	API	Yes	
Focus Control		Auto, area foo	cus, manual			SDK	Yes	
Number of Lens		1				Interoperability	ONVIF (Profile S/Profile G/Profile T); CGI; ITSAPI; P2P	
Lens Type		Motorized va	ri-focal			Management Software	DSS Express; DSS Pro	
Max. Aperture		1.6				Security	Username and password; MAC address; HTTPS; IEEE	
Iris Control		Fixed				Scouriey	802.1x; network access control	
DORI Distance	Lens Detect Observe Recognize Identify W 60.4 m (198.16 ft) 24.2 m (19.40 ft) 12.1 m (39.70 ft) 6.0 m (19.69 ft)	Plug in: IE 9, 10, 11. Chrome 52 and earlier versions Firefox 42 and earlier versions No plug in:						
Distance	Т	128.7 m	51.5 m	25.7 m	12.9 m		Chrome 92 and later versions	
		(422.24 ft)	(168.96 ft)	(84.32 ft)	(42.32 ft)	Image		
Illuminato	Illuminator					Image Encoding Format	JPEG	
Illuminator Number		3 (White LED	illuminator wit	th IR light)		Image Setting	Brightness; contrast; saturation; gamma; sharpness; gain; white balance	
	Illuminator Color Temperature					Day/Night	IR filter, support three modes: color, B/W, auto	
Illuminator B Adjustment	Illuminator Brightness Adjustment					WDR	140 dB	
Illuminator On/Off Control		Auto, manual				HLC	Yes	
Illumination Distance		8 m (26.25 ft)	1			BLC	Yes	
		According to the brightness of the environment, the camera automatically adjusts the intensity of its light				White Balance	Auto; Regional Custom; Manual; Outdoor; Natural; Street Lamp	
Smart Illumination			n automaticall	ing targets. Dev y adjust the ligi		Digital Detail Enhancement (DDE)	Yes	
Infrared Wavelength		850 nm				OSD Overlay	Supports overlay of time, address (position of channel), lane (number/direction), plate (number and color), vehicle (color and type)	
Video						Audio		
Video Resolution		Main stream: 4MP (2688 × 1520)/1080p (1920 × 1080)/720p (1280 × 720) Sub stream: 960H (960 × 576)/D1 (704 × 576)				Audio Port	Yes	
		PAL: Main stream (2688 × 1520@25 fps, 1920				Port		
Video Frame Rate		×1080@25 fps, 1280 × 720@25 fps), sub stream (960 ×576@25 fps, 704 × 576@25 fps)				Audio Input	1 channel (terminal)	

Audio Output	1 channel (terminal)		Baseline support: 10 options (80 countries)
Network Port	1 × RJ-45 100/1000 Mbps Ethernet port		General: Supports universal characters GCC (U.A.E., Saudi Arabia, Morocco, Oman, Iraq, Egypt, Jordan, Qatar, Kuwait, Bahrain, Lebanon) South Africa: Zambia, Uganda, Equatorial Guinea, Mauritius 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, Palestine, Lebanon, Ireland, Finland, Norway, Croatia, North Macedonia)
Storage	TF card holder + direct plug		
Alarm Input	3 channel, optocoupler input (wet node on-off value: 5 V)		
Alarm Output	2 channel, relay output (2 A, 30 VDC/0.5 A, 125 VAC), which can connect to devices such as barriers		
RS-485	2 channel		
Reset Button	Reset Button Yes		SADC (Uruguay, Paraguay, Brazil, Argentina, Chile, Colombia, Peru, Ecuador, Guyana, Bolivia)
Number of Memory Slots	1		Mexico and other countries: Mexico, Costa Rica, Curacao, Guatemala Russian-speaking regions (Russia, Ukraine, Kazakhstan, Kyrgyzstan, Uzbekistan, Tajikistan, Moldova, Lithuania,
Performance			
Maximum Number of Passed Vehicles	10000		Latvia, Georgia, Azerbaijan, Turkmenistan) North America (United States, Canada) North Africa Region Collection: Tunisia, Morocco, Algeria,
Max. Number of Connections	10		Libya The baseline algorithm is supported for the following 19 countries: Republic of Korea, Indonesia, Singapore, Cambodia, Australia, Thailand, Bassett, Nigeria, Pakistan, Viet Nam, Mongolia, Bangladesh, Myanmar, Philippines, Laos, Iraq, Japan, Maldives, Nepal
Function			
Blocklist/Allowlist	Allowlist: 110,000 Blocklist: 110,000		
	Alarms for events of no storage card, storage card no	Capture Rate	In the recommended installation and lighting condition, the vehicle capture rate \geq 99%
Basic Event	space, storage card error, network disconnection, IP conflict, and illegal access.	Recognition Rate	In the recommended installation and lighting condition, the recognition rate for positive and departing vehicles≥ 96%; the recognition rate for European vehicle plates
Alarm Linkage	Alarm Linkage Upload to FTP/Memory card, notify monitoring center, send e-mail, trigger alert output.		≥ 98%
Capture Distance			
Detected Width	3 m-4 m (9.84 ft-13.12 ft)	Power Supply	100–240 VAC
Storage	Built-in one TF card port; TF card (up to 256 GB)	Power Consumption	Max: 70 W
Screen Bad Pixel Detection	Yes	Defog (Glass Heating)	Automatic defog
Intelligence		Protection	IP54
Al Recognition	Recognizes vehicle types, vehicle signs, vehicle color,	Anti-corrosion Level	Basic Protection
, and the second	vehicle plate, vehicle without plate.	Material	Metal + plastic
Video Metadata	Displays the intelligent frame, plate and vehicle paths.	Product Dimensions	380.9 mm × 320.0 mm × 1423.9 mm (15.00" × 12.60" × 56.06")
Vehicle Brand	Recognizes 147 vehicle logos.	Packaging Dimensions	905.0 mm × 510.0 mm × 220.0 mm (35.63" × 20.08" ×
Vehicle Color	Recognizes 12 colors: Grey, black, white, silver, blue, green, purple, red, orange, pink, brown, and yellow.		8.66")
	Recognizes 10 vehicle types: Large Bus, Heavy Truck,	Net Weight	1.40 kg (30.91 lb)
Vehicle Type Recognition	Medium Truck, Sedan, Van, Light Truck, Medium Bus, SUV, MPV, Pickup	Gross Weight	1.73 kg (38.23 lb)
		Storage Humidity	≤95% (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%–95% (RH), non-condensing
		Certifications	CE UKCA
		Display Screen Type	LED
		Display Screen Dimensions	480.0 mm × 320.0 mm × 82.0 mm (18.90" × 12.60" × 3.23")

Display Color

Pixels Configuration

RGB full color

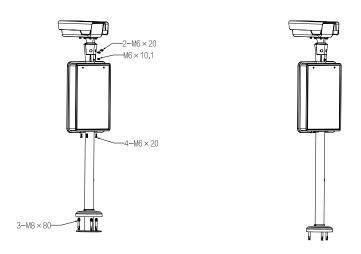
p4 distance

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Screen Resolution	64 (H) × 64 (V)		
Display Screen Lifespan	5,000 h		
Display Screen Brightness	≥1500cd/m²		

Ordering Information				
Туре	Model	Description		
Access ANPR Kit Series	DHI-IPMECS- 2234-IZ	Dahua 4MP Access ANPR Kit		

Installation



Dimensions (mm [inch])

