

# 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							
Camera							
Image Sensor							
Image Resolution							
Electronic Shutter Speed							
Max. Detection Speed							
Min. Illumination							
ROM							
RAM							
S/N Ratio							
Scanning System							
Lens							
Focal Length							
Field of View							
Focus Control							
Number of Lens							
Lens Type							
Max. Aperture							
Iris Control							
DORI Distance	Lens		Detect	Observe	Recognize		
	W		60.4 m (198.16 ft)	24.2 m (79.40 ft)	12.1 m (39.70 ft)		
	T		128.7 m (422.24 ft)	51.5 m (168.96 ft)	25.7 m (84.32 ft)		
Illuminator							
Illuminator Number							
Illuminator Color Temperature							
Illuminator Brightness Adjustment							
Illuminator On/Off Control							
Illumination Distance							
Smart Illumination							
Infrared Wavelength							
Video							
Video Resolution							
Video Frame Rate							
Video Compression							
Video Bit Rate							
Scene Self-adaptation (SSA)							
Gain Control							
Noise Reduction							
Region of Interest (RoI)							
Image Tampering Prevention							
Privacy Masking							
Bit Rate Control							
Network							
Network Protocol							
API							
SDK							
Interoperability							
Management Software							
Security							
Browser							
Image							
Image Encoding Format							
Image Setting							
Day/Night							
WDR							
HLC							
BLC							
White Balance							
Digital Detail Enhancement (DDE)							
OSD Overlay							
Audio							
Audio Port							
Port							
Audio Input							

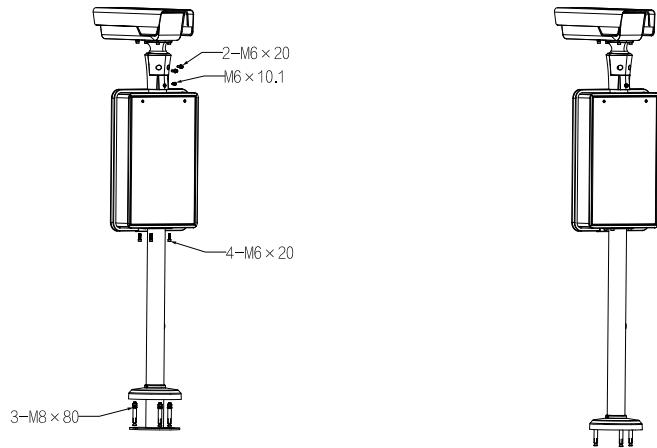
Audio Output	1 channel (terminal)	Baseline support: 10 options (80 countries) General: Supports universal characters
Network Port	1 × RJ-45 100/1000 Mbps Ethernet port	GCC (U.A.E., Saudi Arabia, Morocco, Oman, Iraq, Egypt, Jordan, Qatar, Kuwait, Bahrain, Lebanon) South Africa: Zambia, Uganda, Equatorial Guinea, Mauritius
Storage	TF card holder + direct plug	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) SADC (Uruguay, Paraguay, Brazil, Argentina, Chile, Colombia, Peru, Ecuador, Guyana, Bolivia )
Alarm Input	3 channel, optocoupler input (wet node on-off value: 5 V)	Mexico and other countries: Mexico, Costa Rica, Curacao, Guatemala
Alarm Output	2 channel, relay output (2 A, 30 VDC/0.5 A, 125 VAC), which can connect to devices such as barriers	Russian-speaking regions (Russia, Ukraine, Kazakhstan, Kyrgyzstan, Uzbekistan, Tajikistan, Moldova, Lithuania, Latvia, Georgia, Azerbaijan, Turkmenistan)
RS-485	2 channel	North America (United States, Canada)
Reset Button	Yes	North Africa Region Collection: Tunisia, Morocco, Algeria, Libya
Number of Memory Slots	1	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
<b>Performance</b>		
Maximum Number of Passed Vehicles	10000	
Max. Number of Connections	10	
<b>Function</b>		
Blocklist/Allowlist	Allowlist: 110,000 Blocklist: 110,000	
Basic Event	Alarms for events of no storage card, storage card no space, storage card error, network disconnection, IP conflict, and illegal access.	
Alarm Linkage	Upload to FTP/Memory card, notify monitoring center, send e-mail, trigger alert output.	
Capture Distance	2.5 m–6 m (8.20 ft–19.69 ft)	
Detected Width	3 m–4 m (9.84 ft–13.12 ft)	
Storage	Built-in one TF card port; TF card (up to 256 GB)	
Screen Bad Pixel Detection	Yes	
<b>Intelligence</b>		
AI Recognition	Recognizes vehicle types, vehicle signs, vehicle color, vehicle 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 10 vehicle types: Large Bus, Heavy Truck, Medium Truck, Sedan, Van, Light Truck, Medium Bus, SUV, MPV, Pickup	
<b>Country and Region Supported by ANPR</b>		
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		
<b>General</b>		
Power Supply	100–240 VAC	
Power Consumption	Max: 70 W	
Defog (Glass Heating)	Automatic defog	
Protection	IP54	
Anti-corrosion Level	Basic Protection	
Material	Metal + plastic	
Product Dimensions	380.9 mm × 320.0 mm × 1423.9 mm (15.00" × 12.60" × 56.06")	
Packaging Dimensions	905.0 mm × 510.0 mm × 220.0 mm (35.63" × 20.08" × 8.66")	
Net Weight	1.40 kg (30.91 lb)	
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	RGB full color	
Pixels Configuration	p4 distance	

Screen Resolution	64 (H) × 64 (V)
Display Screen Lifespan	5,000 h
Display Screen Brightness	≥1500cd/m <sup>2</sup>

## Ordering Information

Type	Model	Description
Access ANPR Kit Series	DHI-IPMECS-2234-IZ	Dahua 4MP Access ANPR Kit

## Installation



## Dimensions (mm [inch])

