# DH-IPMECS-2201C-(IR)
## 2 Megapixel Full AI Access ANPR Kit

· **Integrate capture camera, display screen, audio prompt and audio intercom**
· **Built-in 2MP deep learning camera adapting to more scenes**
· **Highlight display screen with a large visual angle and long service life**
· **Simple construction, convenient wiring and easy maintenance**
· **Embedded with LPR algorithm inside the camera**
· **Vehicle data structuring: LPR, vehicle size, and vehicle color detection etc.**

## Overview

An integrated access ANPR kit, which contains deep-learning access ANPR camera, and LED screen. It can be used to detect vehicles at vehicle entrance and recognize the license plate and structure data from vehicles. Besides, working with platform, the led screen can display information, such as license plate number and available parking space number. It applies to access control system of hotels, governments, supermarkets, schools, airports, factories, public security bureaus and forensic scenes.

## Function

### High vehicle capture rate

With build-in vehicle deep learning algorithm, the camera can achieve very high vehicle capture rate (≥99% for vehicle front face) from the video in day and night. As the algorithm based on vehicle model, the camera can also capture the vehicle with dirty plate and even without plate when the vehicle approaches or leaves. It is recommended to use the camera to capture the vehicle front face and within 40kmh.

### World-wide license plate recognition

The camera can provide the high performance license plate recognition for worldwide. The majority countries and areas in Europe, South America, Mid and South Asia, etc., are supported. The AI ANPR camera will provide a cutout snapshot of plate, the vehicle overview image and record the surveillance video

### Metadata

With the leading deep learning algorithm, the camera can provide the structuring data from the vehicles, including vehicle direction, vehicle size and vehicle color detection (in daytime). These data can also be overlay on the vehicle images.

### Embedded White List

Embedded with whitelist inside the camera, the camera can control the barrier opened by relay out port if the plate number recognized is in the whitelist. Support to import the list with a batch as much as 10000 records.

### Integrated Design

Integrate capture camera, display screen, audio prompt and audio intercom. It is easier to install and configure.

LED screen supports to display in red and green with 8 letters in each line, and 4 lines in total.

## Technical Specification

### Camera

| | |
|---|---|
| Image Sensor | 1/2.7 inch CMOS |
| Effective Pixels | 2MP, 1920(H) x 1080(V) |
| Scanning System | Progressive |
| Minimum Illumination | 0. 005Lux/F1.3 (Color),0Lux/F1.3(IR on) |
| Electronic Shutter Speed | 1/50~1/10000,Auto/Manual |
| Lamp | Built-in LED strobe lamp(IR or White) |
| Bad Point Correction | Supported |
| Exposure Mode | Auto/Manual |
| Edge Enhancement | Supported |

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## Technical Specification

### Display Screen

| | |
|---|---|
| Life of Display Screen | ≥100,000 hours |
| LED Display | Supports display in red, green; with 8 letters in each line, and 4 lines in total. |
| Voice Broadcast | Support car information, welcome information, charging information, etc. |

### Lens

| | |
|---|---|
| Lens Mount | φ14 |
| Focal Length | 2.7mm~12mm |
| Lens Type | Auto Iris (DC) |

### Intelligence

| | |
|---|---|
| LPR Function | Embedded with Deep learning LPR engine |
| Vehicle Detection | Supports vehicle video detection with high detection rate; supports vehicle direction detection |
| Vehicle data structuring | license plate recognition, vehicle size, vehicle color detection and etc. |
| Vehicle size detection | Supports 11 vehicle sizes detection:large bus, heavy truck, medium truck, sedan, minivan, light truck, SUV, MPV, medium bus, pick-up and minicar. |
| Vehicle color detection | Supports 11 colors detection(daytime):white, black, blue, red, yellow, green, pinkish purple, gray, brown, orange and silver. |
| Detection model | Supports Video detection or loop detection |
| Snapshot | Overview and cutout of plate for picture |
| OSD overlay | Time, place,plate number, etc. |
| White list | 10000 records database inside the camera |
| Barrier control | Relay out to control the barrier |
| Trigger Type | Video/IO Loop/RS485 Loop |

### Interface

| | |
|---|---|
| IO/485 Port | 2-ch I/O input, 2-ch I/O output, 1-ch 485 |
| Ethernet | 1 × 100M Ethernet port |
| Alarm I/O | 3 |
| Storage Function | Built-in TF card slot |

### Video

| | |
|---|---|
| WDR | Supported |
| Video Encoding Standard | H.265/H.264/MJPEG |
| Effective Pixels | 2MP 1920(H) x 1080(V) |
| Video Resolution | Main stream 1920×1080@25fps, sub stream 704×576@25fps |
| Video Frame | Up to 25 FPS |
| White Balance | Auto/Manual |
| Gain Control | Auto/Manual |
| Noise Reduction | 3D |
| Video Tamper-proofing | Video/Image with watermark tech and check function |

### Network

| | |
|---|---|
| Ethernet | RJ-45 (100/1000Base-T) |
| Interoperability | CGI, SDK, Onvif |
| Max. User Access | 20 |
| Web Viewer | IE8,IE9,IE10,IE11,Chrome V33, V41 |
| Protocol | IPv4/IPv6, HTTP, TCP/IP, UDP, NTP, DHCP, DNS |
| Edge Storage | Micro SD, Max 64GB Status Display Local PC for Instant Recording |
| Management Software | PMS |

### Certifications

| | |
|---|---|
| Certifications | CE / FCC / RoHS |

### General Parameters

| | |
|---|---|
| Operating Temperature | Temperature -35℃ to +65℃ , Humidity 10%~90% |
| Ingress Protection | IP54 |
| Remote Control | Web |
| Power supply | AC 100V-230V ; 50hz/60hz |
| Dimensions | 354mm×326mm×1302mm |
| Weight | 42kg |

## Ordering Information

| Type | Model |
| --- | --- |
| Access ANPR Kit (White Light) | IPMECS-2201C |
| Access ANPR Kit (IR Light) | IPMECS-2201C-IR |

## Dimensions with Bracket(mm/inch)