

# 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 ( $\geq 99\%$  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

**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
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## General Parameters

Operating Temperature	Temperature -35 C to +65 C , 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)**

