

DHI-ITC437-PW6M-IZ-GN

Access ANPR Camera



- CMOS image sensor
- Video compression standards: H.265/H.264M/H.264H/H.264B/MJPEG
- Integrated design, IP67

System Overview

The long range access ANPR camera is designed with high-performance CMOS image sensor and independently-developed processor, capable of reading and extracting detailed vehicle information day and night. Intelligent deep learning algorithm allows recognition of vehicle license plate, and vehicle brand, model, logo, and color. The camera is extensively applied to vehicle capture and recognition of community road, parking lot, and other entrance and exit surveillance scenarios.

Functions

High-quality image

Industry-specific CMOS image sensor with high sensitivity, high SNR and excellent WDR provides lifelike images in all weathers.

Complete intelligence

High-performance CPU processor helps extract and analyze information of motor and non-motor vehicles in real-time, providing vehicle feature details for business decision-making.

High-level protection

Integrated design with low power consumption, and IP67 protection grade, suitable for various harsh environments.

Multiple ports

Various signal, data and communication ports, capable of connecting to external devices such as barrier.

Easy installation

Built-in LED illuminator and motorized vari-focal lens, providing ease of installation and commissioning.

Technical Specification

Basic

| | |
|--------------------------|--|
| Illuminator Number | 6 IR illuminators, brightness adjustable |
| Image Sensor | 1/1.8" CMOS |
| Image Resolution | 2688 × 1520 (OSD black strip excluded) |
| Video Resolution | Main stream: 4M (2688 × 1520), 1080p (1920 × 1080), 720p (1280 × 720) Sub stream: 720p (1280 × 720), D1 (704 × 576, 704 × 480), CIF (352 × 288, 352 × 240) |
| Video Frame Rate | PAL: Main stream (2688 × 1520@25 fps, 1920 × 1080@25 fps, 1280 × 720@25 fps), sub stream: (1280 × 720@25 fps, 704 × 576@25fps, 352 × 288@25 fps) NTSC: Main stream (2688 × 1520@30 fps, 1920 × 1080, 1280 × 720@30 fps), sub stream (1280 × 720@30 fps, 704 × 408@30 fps, 352 × 240@30 fps) |
| Bit Rate | H.264B: 32 Kbps–32768 Kbps H.264M: 32 Kbps–32768 Kbps H.264H: 32 Kbps–32768 Kbps H.265: 32 Kbps–32768 Kbps MJPEG: 512 Kbps–65536 Kbps |
| Video Compression | H.264B/H.264M/H.264H/H.265/MJPEG |
| Picture Encoding Format | JPEG |
| Noise Reduction | 3D NR |
| White Balance | Full auto, auto color temperature range, customized color temperature |
| Electronic Shutter Speed | 1/50–1/10,000 auto or manual |
| WDR | 96 db |
| Edge Enhancement | Yes |
| Exposure Mode | Full auto, customized auto, customized |
| Iris Control | Auto iris (W:1.33—T:1.34) |

Performance

| | |
|--------------|---------------------------|
| Trigger Mode | Video detection; I/O coil |
|--------------|---------------------------|

| | |
|---------------------------------------|---|
| Shutter | Single shutter |
| Storage | 1 built-in TF card slot. Supports Kingston 16 G, 32 G, 64 G, and 128 G; Dahua 16 G, 32 G, 64 G, and 128 G; SanDisk 16 G, 32 G, 64 G, and 128 G |
| Image Tampering Prevention | Yes. Video/picture can be checked through watermark and verification |
| Field of View | H: 40.55° (W)–9.33° (T) V: 22.7° (W)–5.3° (T) D: 46.6° (W)–10.63° (T) |
| Illumination Distance | 30 m (98.43 ft) |
| Capture Distance | 8 m–30 m (26.25 ft to 98.42 ft) |
| Detected Width | 6 m–7 m (19.69 ft to 22.97 ft) |
| Min. Illumination | 0.002 lx (built-in illuminator on) |
| Max. Detection Speed | 60 km/h (37.28 miles per hour) |
| Alarm Event | Alarm for events of no storage card, storage card no space, storage card error, network disconnection, IP conflict, and illegal access |
| Security | Authorized username and password, MAC address binding, HTTPS encryption, IEEE 802.1x, and network access control |
| OSD Overlay | Supports overlay of time, address, plate, vehicle (color, type, accuracy), vehicle posture, counterfeit, checkpoint direction, trigger source, and custom |
| Automatic Network Replenishment (ANR) | Yes. Transfer through platform/FTP |
| Auto Registration | Yes |

Intelligence

| | |
|-------------------------|--|
| Vehicle Detection | Vehicle capture rate ≥ 99% |
| Vehicle Recognition | Supports recognizing vehicle type, vehicle color, features of driver and front-seat passenger, licensed/unlicensed vehicle. Vehicle recognition rate ≥ 95% |
| Video Metadata | Yes |
| Intelligent Track Frame | Intelligent frame display. Supports displaying vehicle plate and vehicle path |

Port

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|---------------|--|
| Lens Mount | Lens in the camera module |
| Analog Output | 1 |
| Network | 1 × 100/1000 M Ethernet port (RJ-45) |
| RS-485 | 2 |
| RS-232 | 1 |
| Alarm Input | 3, optocoupler input (on-off input) |
| Alarm Output | 3 ports. 2-channel optocoupler output, 1-channel relay output, which can connect to devices such as barriers |
| Audio Input | 1-channel RCA port |
| Audio Output | 1-channel RCA port |

General

| | |
|-------------------|----------------------|
| Power Supply | 12V DC, 24V AC, PoE+ |
| Power Consumption | < 20 W |

| | |
|-----------------------|---|
| Operating Temperature | –30°C to +65°C (–22°F to +149 °F) |
| Operating Humidity | 10%RH–90%RH (no condensation) |
| Casing | Metal + plastic |
| Protection Grade | IP67 |
| Dimensions | 515.2 mm × 124.7 mm × 183.2 mm (20.28" × 4.91" × 7.21") (L × W × H) |
| Net Weight | 1.9 kg (4.19 lb) |
| Gross Weight | 3.8 kg (8.38 lb) |
| Installation | Bent pole bracket (included) |
| Lens | Standard 10 mm–50 mm (0.39"–1.97") |

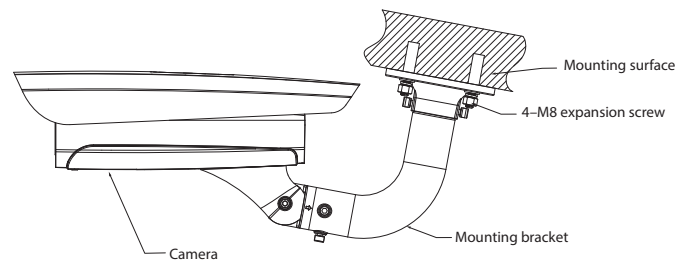
Certification

| | |
|---------|-----|
| CE, FCC | Yes |
| RoHS | Yes |

Ordering Information

| Type | Model | Description |
|------------|-----------------------|--|
| 4MP Camera | DHI-ITC437-PW6M-IZ-GN | 4MP long range access ANPR camera (850 nm built-in IR illuminator) |

Installation



Dimensions (mm[inch])

