

DHI-ITC215-PW6M-IRLZF

Access ANPR Camera



- Adopts high-performance CMOS image sensor and processor for in-depth extraction and analysis of vehicle information 24/7
- Embraces deep learning algorithm for accurate recognition of vehicles without license plate, and vehicle model, vehicle logo, vehicle series, vehicle color, and more
- Various signal, data and communication interfaces; supports connecting to extra devices, such as barrier
- · Built-in LED illuminator for simplified installation
- · Motorized vari-focal lens, easy for installation and commissioning
- Integrated design with low power consumption, and IP67 protection grade

System Overview

The short range access ANPR camera adopts high-performance CMOS image sensor and processor for in-depth extraction and analysis of vehicle information 24/7. In addition, it embraces deep learning algorithm for accurate recognition of vehicles without license plate, vehicle model, vehicle logo, vehicle series, vehicle color, and more. The camera is extensively applied to vehicle detection and recognition in scenarios such as parking lots, community roads, and more.

The access ANPR kit is extensively applied to vehicle detection and recognition in scenarios such as parking lots, community roads, and more.

Functions

High-quality image

Industry-specific CMOS image sensor with high sensitivity, high SNR and excellent WDR provides lifelike images 24/7.

Impressive performance

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.

Easy installation

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

Technical Specification

Basic

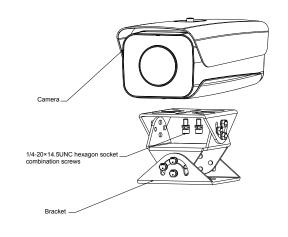
Illuminator Number Image Sensor 1/2.8" CMOS Image Resolution 1920 × 1080 (OSD black strip excluded) Main stream: 1080P (1920 × 1080)/720P (1280 × 720) Sub stream: 720P (1280 × 720)/D1 (704 × 576, 704 × 480)/CIF (352 × 288, 352 × 240) PAL: Main stream (1920 × 1080@25fps, 1280 × 720@25fps,) sub stream (1280 × 720@25fps, 704 × 576@25fps, 352 × 288@25fps) NTSC: Main stream (1920 × 1080@30fps, 1280 × 720@30fps), sub stream (1280 × 720@30fps, 704 × 408@30fps, 352 × 240@30fps, 1280 × 720@30fps), sub stream (1280 × 720@30fps, 704 × 408@30fps, 352 × 240@30fps) Bit Rate H.264B: 32Kbps—32768Kbps H.264M: 32Kbps—32768Kbps H.264M: 32Kbps—32768Kbps H.264H: 32Kbps—32768Kbps H.264H: 32Kbps—32768Kbps H.264H: 32Kbps—32768Kbps H.264H: 32Kbps—32768Kbps H.264H: 32Kbps—65536Kbps Video Compression H.264B/H.264H/H.264H/H.265/MJPEG Picture Encoding Format JPEG Noise Reduction 3DNR White Balance Full auto, auto color temperature range, customized color temperature Electronic Shutter Speed 1/50—1/10000, auto or manual WDR 96 db Edge Enhancement Yes Exposure Mode Full auto, customized auto, customized Iris Control Auto iris (W: 1.6—T: 3.3)	Basic		
Main stream: 1080P (1920 × 1080)/720P (1280 × 720)	Illuminator Number	6 IR illuminators, brightness adjustable	
Video Resolution Main stream: 1080P (1920 × 1080)/720P (1280 × 720) Sub stream: 720P (1280 × 720)/D1 (704 × 576, 704 × 480)/CIF (352 × 288, 352 × 240) PAL: Main stream (1920 × 1080@25fps, 1280 × 720@25fps), sub stream (1280 × 720@25fps, 704 × 576@25fps, 352 × 288@25fps) NTSC: Main stream (1920 × 1080@30fps, 1280 × 720@30fps), sub stream (1280 × 720@30fps, 704 × 408@30fps, 352 × 240@30fps) H. 264B: 32Kbps—32768Kbps H. 264M: 32Kbps—32768Kbps H. 264H: 32Kbps—32768Kbps H. 264H: 32Kbps—32768Kbps MJPEG: 512Kbps—65536Kbps Video Compression H. 264B/H. 264M/H. 264H/H. 265/MJPEG Picture Encoding Format JPEG Noise Reduction JPEG Noise Reduction JPEG Noise Reduction JPEG Vill auto, auto color temperature range, customized color temperature Electronic Shutter Speed 1/50–1/10000, auto or manual WDR 96 db Edge Enhancement Yes Exposure Mode Full auto, customized auto, customized	Image Sensor	1/2.8" CMOS	
Video Resolution 720) Sub stream: 720P (1280 × 720)/D1 (704 × 576, 704 × 480)/CIF (352 × 288, 352 × 240) PAL: Main stream (1920 × 1080@25fps, 1280 × 720@25fps, 352 × 288@25fps), sub stream (1280 × 720@25fps, 704 × 576@25fps, 352 × 288@25fps) NTSC: Main stream (1920 × 1080@30fps, 1280 × 720@30fps), sub stream (1280 × 720@30fps, 704 × 408@30fps, 352 × 240@30fps) Bit Rate H.264B: 32Kbps—32768Kbps H.264H: 32Kbps—32768Kbps H.264H: 32Kbps—32768Kbps H.265: 32Kbps—32768Kbps MPEG: 512Kbps—65536Kbps Video Compression H.264B/H.264M/H.264H/H.265/MJPEG Picture Encoding Format JPEG Noise Reduction 3DNR White Balance Full auto, auto color temperature range, customized color temperature Electronic Shutter Speed 1/50—1/10000, auto or manual WDR 96 db Edge Enhancement Yes Exposure Mode Full auto, customized auto, customized	Image Resolution	1920 × 1080 (OSD black strip excluded)	
Video Frame Rate 720@25fps), sub stream (1280 × 720@25fps, 704 × 576@25fps, 352 × 288@25fps) NTSC: Main stream (1920 × 1080@30fps, 1280 × 720@30fps), sub stream (1280 × 720@30fps, 704 × 408@30fps, 352 × 240@30fps) H.264B: 32Kbps-32768Kbps H.264M: 32Kbps-32768Kbps H.264H: 32Kbps-32768Kbps MJPEG: 512Kbps-65536Kbps Video Compression H.264B/H.264M/H.264H/H.265/MJPEG Picture Encoding Format JPEG Noise Reduction JPEG Noise Reduction 3DNR White Balance Full auto, auto color temperature range, customized color temperature Electronic Shutter Speed 1/50-1/10000, auto or manual WDR 96 db Edge Enhancement Yes Exposure Mode Full auto, customized auto, customized	Video Resolution	720) Sub stream: 720P (1280 × 720)/D1 (704 × 576, 704 ×	
Bit Rate H.264M: 32Kbps—32768Kbps H.264H: 32Kbps—32768Kbps H.265: 32Kbps—32768Kbps MJPEG: 512Kbps—65536Kbps Video Compression H.264B/H.264M/H.264H/H.265/MJPEG Picture Encoding Format JPEG Noise Reduction 3DNR White Balance Full auto, auto color temperature range, customized color temperature Electronic Shutter Speed 1/50—1/10000, auto or manual WDR 96 db Edge Enhancement Yes Exposure Mode Full auto, customized auto, customized	Video Frame Rate	720@25fps), sub stream (1280 × 720@25fps, 704 × 576@25fps, 352 × 288@25fps) NTSC: Main stream (1920 × 1080@30fps, 1280 × 720@30fps), sub stream (1280 × 720@30fps, 704 ×	
Picture Encoding Format JPEG Noise Reduction 3DNR White Balance Full auto, auto color temperature range, customized color temperature Electronic Shutter Speed 1/50–1/10000, auto or manual WDR 96 db Edge Enhancement Yes Exposure Mode Full auto, customized auto, customized	Bit Rate	H.264M: 32Kbps–32768Kbps H.264H: 32Kbps–32768Kbps H.265: 32Kbps–32768Kbps	
Noise Reduction 3DNR White Balance Full auto, auto color temperature range, customized color temperature Electronic Shutter Speed 1/50–1/10000, auto or manual WDR 96 db Edge Enhancement Yes Exposure Mode Full auto, customized auto, customized	Video Compression	H.264B/H.264M/H.264H/H.265/MJPEG	
White Balance Full auto, auto color temperature range, customized color temperature Electronic Shutter Speed 1/50–1/10000, auto or manual WDR 96 db Edge Enhancement Yes Exposure Mode Full auto, customized auto, customized	Picture Encoding Format	JPEG	
White Balance color temperature Electronic Shutter Speed 1/50–1/10000, auto or manual WDR 96 db Edge Enhancement Yes Exposure Mode Full auto, customized auto, customized	Noise Reduction	3DNR	
WDR 96 db Edge Enhancement Yes Exposure Mode Full auto, customized auto, customized	White Balance		
Edge Enhancement Yes Exposure Mode Full auto, customized auto, customized	Electronic Shutter Speed	1/50–1/10000, auto or manual	
Exposure Mode Full auto, customized auto, customized	WDR	96 db	
	Edge Enhancement	Yes	
Iris Control Auto iris (W: 1.6–T: 3.3)	Exposure Mode	Full auto, customized auto, customized	
	Iris Control	Auto iris (W: 1.6–T: 3.3)	

Performance		
Trigger Mode	Video detection; I/O coil; video detection and I/O coil	
Shutter	Single shutter	
Storage	1 built-in TF card port. Supports Kingston 16G, 32G, 64G, and 128G; Dahua 16G, 32G, 64G, and 128G; SanDisk 16G, 32G, 64G, and 128G	
Image Tampering Prevention	Yes. Video/picture can be checked through watermark and verification	
Field of View	Horizontal: 108.1° (W)–30.3° (T); Vertical: 56.3° (W)–17.1° (T); Diagonal: 130.9° (W)–34.8° (T)	
Illumination Distance	12 m (39.37 ft)	
Capture Range	3 m-6 m (9.84 ft-19.69 ft)	
Detected Lane Width	3 m -4 m (9.84 ft-13.12 ft)	
Min Ambient Illuminance	0.002 Lux. Illuminator is designed with the camera for illumination	
Max Speed that the Camera Detects	30 km/h	
Alarm Event	Alarm in the case of no storage card, not enough storage 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 (position of channel), lane (number/direction), plate (number and color), vehicle (speed, color, type)	
Automatic Network		
Replenishment (ANR)	Yes. Platform/FTP	
	Yes. Platform/FTP Yes	
Replenishment (ANR)		
Replenishment (ANR) Auto Registration		
Replenishment (ANR) Auto Registration Intelligence	Yes	
Replenishment (ANR) Auto Registration Intelligence Vehicle Detection	Yes Vehicle capture rate ≥99% Supports recognizing vehicle type, vehicle logo, vehicle series, vehicle color, license plate, features of driver and front-seat passenger, and vehicle without	
Replenishment (ANR) Auto Registration Intelligence Vehicle Detection Vehicle Recognition	Vehicle capture rate ≥99% Supports recognizing vehicle type, vehicle logo, vehicle series, vehicle color, license plate, features of driver and front-seat passenger, and vehicle without plate. Vehicle recognition rate ≥95%	
Replenishment (ANR) Auto Registration Intelligence Vehicle Detection Vehicle Recognition Video Metadata	Yes Vehicle capture rate ≥99% Supports recognizing vehicle type, vehicle logo, vehicle series, vehicle color, license plate, features of driver and front-seat passenger, and vehicle without plate. Vehicle recognition rate ≥95% Yes Intelligent frame display. Supports displaying vehicle	
Replenishment (ANR) Auto Registration Intelligence Vehicle Detection Vehicle Recognition Video Metadata Intelligent Track Frame	Yes Vehicle capture rate ≥99% Supports recognizing vehicle type, vehicle logo, vehicle series, vehicle color, license plate, features of driver and front-seat passenger, and vehicle without plate. Vehicle recognition rate ≥95% Yes Intelligent frame display. Supports displaying vehicle	
Replenishment (ANR) Auto Registration Intelligence Vehicle Detection Vehicle Recognition Video Metadata Intelligent Track Frame Port	Vehicle capture rate ≥99% Supports recognizing vehicle type, vehicle logo, vehicle series, vehicle color, license plate, features of driver and front-seat passenger, and vehicle without plate. Vehicle recognition rate ≥95% Yes Intelligent frame display. Supports displaying vehicle plate and vehicle path	
Replenishment (ANR) Auto Registration Intelligence Vehicle Detection Vehicle Recognition Video Metadata Intelligent Track Frame Port Lens Mount	Yes Vehicle capture rate ≥99% Supports recognizing vehicle type, vehicle logo, vehicle series, vehicle color, license plate, features of driver and front-seat passenger, and vehicle without plate. Vehicle recognition rate ≥95% Yes Intelligent frame display. Supports displaying vehicle plate and vehicle path	
Replenishment (ANR) Auto Registration Intelligence Vehicle Detection Vehicle Recognition Video Metadata Intelligent Track Frame Port Lens Mount Analog Output	Yes Vehicle capture rate ≥99% Supports recognizing vehicle type, vehicle logo, vehicle series, vehicle color, license plate, features of driver and front-seat passenger, and vehicle without plate. Vehicle recognition rate ≥95% Yes Intelligent frame display. Supports displaying vehicle plate and vehicle path Φ14 1	
Replenishment (ANR) Auto Registration Intelligence Vehicle Detection Vehicle Recognition Video Metadata Intelligent Track Frame Port Lens Mount Analog Output Network	Vehicle capture rate ≥99% Supports recognizing vehicle type, vehicle logo, vehicle series, vehicle color, license plate, features of driver and front-seat passenger, and vehicle without plate. Vehicle recognition rate ≥95% Yes Intelligent frame display. Supports displaying vehicle plate and vehicle path Φ14 1 1 100/1000M Ethernet port (RJ-45)	
Replenishment (ANR) Auto Registration Intelligence Vehicle Detection Vehicle Recognition Video Metadata Intelligent Track Frame Port Lens Mount Analog Output Network RS-485	Vehicle capture rate ≥99% Supports recognizing vehicle type, vehicle logo, vehicle series, vehicle color, license plate, features of driver and front-seat passenger, and vehicle without plate. Vehicle recognition rate ≥95% Yes Intelligent frame display. Supports displaying vehicle plate and vehicle path Φ14 1 1 100/1000M Ethernet port (RJ-45)	
Replenishment (ANR) Auto Registration Intelligence Vehicle Detection Vehicle Recognition Video Metadata Intelligent Track Frame Port Lens Mount Analog Output Network RS-485 RS-232	Vehicle capture rate ≥99% Supports recognizing vehicle type, vehicle logo, vehicle series, vehicle color, license plate, features of driver and front-seat passenger, and vehicle without plate. Vehicle recognition rate ≥95% Yes Intelligent frame display. Supports displaying vehicle plate and vehicle path Φ14 1 1 100/1000M Ethernet port (RJ-45) 2	

Audio Input	1-channel RCA port	
Audio Output	1-channel RCA port	
General		
Power Supply	12V DC, 24V AC, PoE+	
Power Consumption	<20W	
Operating Temperature	-30°C to +65°C (-22°F to +149 °F)	
Operating Humidity	10%RH–90%RH (no condensation)	
Casing	Metal and plastic	
Protection Grade	IP67	
Dimensions	296.5 mm × 124.3 mm × 107.7 mm (11.67" × 4.89" × 4.24") (L × W × H)	
Net Weight	1.7 kg (3.75 lb)	
Gross Weight	2.3 kg (5.07 lb)	
Installation	Installed with bracket	
Lens	3.2 mm-10.5 mm	
Certification		
CE, FCC	Yes	
RoHS	Yes	

Ordering Information			
Туре	Model	Description	
2MP Camera	DHI-ITC215-PW6M- IRLZF	2MP short range access ANPR camera (850nm built-in IR illuminator)	
Accessory	PFA162	3-dimensional universal mounting bracket	

Installation



Dimensions (mm[inch])

