

# DHI-ITC237-PW6M-IRLZF1050

2MP Long Range 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.



# DHI-ITC237-PW6M-IRLZF1050

# **Technical Specification**

### Image Processing

Illuminator(# Rilluminators (brightness adjustable)Image Sensor1/1.8° CMOSImage ResolutionSloo 1080 (OSD black strip excluded)Ivideo ResolutionSubstream: 7200 (1200 × 7200, 12700 × 1280 × 7200)Ivideo Frame RateRall materam (1920 × 10800/9205ps, 1280 × 7208, 255ps, 502 × 288, 352 × 2408, 3050 × 7208, 255ps, 502 × 7288, 255ps, 502 × 7208, 2500, 5000, 50	Image Processing		
Index Production1920 × 1080 (DSD black strip excluded)Image ResolutionMain stream: 1080P (1920 × 1080) (T2P0 (1280 × 720) / 12Video ResolutionMain stream: (1920 × 1080) 2059; 1280 × 2200255p); sub stream: (1280 × 7200) 11 (704 × 576; 704 × 480) / CIF (352 × 288, 352 × 240)Video Frame RatePAL: Main stream (1920 × 1080) 2059; 1280 × 2200255p); sub stream (1920 × 1080) 3059; 1280 × 72002305p); sub stream (1920 × 1080) 3059; 1280 × 72002305p; 305 × 72002	Illuminator	6 IR illuminators (brightness adjustable)	
InternationalWain stream: 1080P (1920 × 1080) / 720P (1280 × 720)Video ResolutionSub / CF (352 × 288, 352 × 240)Video Frame RatePAL: Main stream (1920 × 1080@30fps, 1280 × 720@25fps, 352 × 288@25fps) NTS: Main stream (1280 × 720@30fps, 704 × 570@25fps), sub stream (1280 × 720@30fps, 704 × 570@30fps), sub stream (1280 × 720@30fps, 704 × 570@30fps), sub stream (1280 × 720@30fps, 704 × 570@30fps), sub stream (1280 × 720@30fps), 704 × 570@25fps), sub stream (1280 × 720@30fps), 704 × 570@25fp, 704 × 570@25fp, 704 × 570%260000 × 10000 × 100	Image Sensor	1/1.8" CMOS	
Video ResolutionSub stream: 720P (1280 × 720) / 01 (704 × 576, 704 × 480) / CIF (352 × 288, 352 × 240)Video Frame RatePAL: Main stream (1920 × 720@25fps, 704 × 570@25fps), sub stream (1280 × 720@25fps, 704 × 570@25fps), sub stream (1280 × 720@20fps, 704 × 308@30fps, 552 × 240@30fps), 1280 × 720@30fps), sub stream (1280 × 720@30fps, 704 × 308@30fps, 552 × 240@30fps), 50 × 720@30fps, 704 × 308@30fps, 552 × 240@30fps), Sub stream (1280 × 720@30fps, 704 × 308@30fps, S52 × 240@30fps), Sub stream (1280 × 720@30fps, 704 × 308@30fps, S52 × 240@30fps), Sub stream (1280 × 720@30fps, 704 × 308@30fps, S52 × 240@30fps)Bit RateH.264H: 32kbps-32768kbps H.265H: 32kbps-32768kbps MIPEC: S12kbps-65536kbpsVideo EncodingJPEGImage EncodingJPEGVideo EncodingJONRWilte BalanceISO-1/10000, auto or manualWide Dynamic Range96dbPicatoric ShutterJSO-1/10000, auto or manualFiger ModeFull auto; customized auto; customizedFirisAuto irs (W:1.3-T:2.3)FunctionSingle shutterStorageJobilt-In Tc ard port. Kingston 166, 32G and 64G; Sanbuk 166, 32G and 64G; Sanbik 16G, 32G and 64G; Sanbuk 16G, 32G and 64G; Sanbik 16G, 32G and 64G; Sanbuk 16G, 32G and 64G; Sanbik 16G, 32G and 64G; Sanbuk 16G, 32G and 64G; Sanbik 16G, 32G and 64G; Sanbuk 16G, 32G and 64G; Sanbik 16G, 32G and 64G; Sanbuk 16G, 32G and 64G; Sanbik 16G, 32G and 64G; Sanbuk 16G, 32G and 64G; Sanbik 16G, 32G and 64G; Sanbuk 16G, 32G and 64G; Sanbik 16G, 32G and 64G; Sanbuk 16G, 32G and 64G; Sanbik 16G, 32G and 64G; Sanbuk 16G, 32G and 64G; Sanbik 16G, 32G and 64G; Sanbuk 16G, 32G and 64G; Sanbik 16G, 32G and 64G; Sanbuk 16G, 32G and 64G; Sanbik 16G, 32G a	Image Resolution	1920 × 1080 (OSD black strip excluded)	
Video Frame RateZo225fps, sub stream: (1280 × 720@25fps, 704 × ST6@25fps, S25 × 28@25fps) Sub stream (1280 × 720@30fps, 1280 × r20@30fps), sub stream (1280 × 720@30fps, 704 × d0@30fps), sub stream (1280 × 720@30fps, 704 × d0@30fps, Sub stream (1280 × 720@30fps, 704 × d0@30fp, T175 treat down, 100 to the merature range; customized at for d10 to first and illegal accessVideo fuencing fuencing down have stream (1280 × 720@30fps, 704 × d0@30fp, F17P server, 108 × 730@30fp, 704 × d0@30fp, F17P server, 108 × 730@30fp, 704 ×Video fuencing down have stream treat down have stre	Video Resolution	Sub stream: 720P (1280 × 720) / D1 (704 × 576, 704 ×	
Bit Rate       L264M: 32Kbps-32768Kbps MPEG: 512Kbps-32768Kbps MPEG: 512Kbps-65536Kbps         Video Encoding       H.266B/H.264M/H.264H/H.265/MJPEG         Image Encoding       JPEG         Noise Reduction       JONR         White Balance       Color temperature range; customized custor remperature         Wide Dynamic Range       96db         Edge Enhancement       Yes         Function       Video detection; I/O coil; video detection and I/O coil         Furger Mode       Video detection; I/O coil; video detection and I/O coil         Shutter       Single shutter         Storage       On (98.43 ft)         Max Speed that the camera Detects       Single score and encore score	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 ×	
Image EncodingJPEGNoise Reduction3DNRWhite Balancecolor temperature range; customized color temperatureWhite Balance1/50-1/10000, auto or manualElectronic Shutter96dbKidge EnhancementVesExposure ModeFull auto; customized auto; customizedIrisAuto iris (W:1.3-T:2.3)FunctionSingle shutterStorageJobil-Lin TF card port. Kingston 16G, 32G and 64G; SanDisk 16G, 32G and 64G; SanDisk 16G, 32G and 64G; SanDisk 16G, 32G and 64G; SanDisk 16G, 32G and 64G; Sandi verificationMax Speed that the Camera Detects30 m (98.43 ft)Alarm EventSolo km/hAlarm EventJuthrized username and password, MAC address binding, HTTPS encryption, IEEE 802.1x, and network discess controlSpoD OverlaySupports overlay of time, address (position of channel), pare (number/direction), plate (number and color), weikele (speed, color, type)ANR (Automatic Network) res. Platform/FTPSupports overlay of time, address (position of channel), pare (number/direction), plate (number and color), weikele (speed, color, type)	Bit Rate	H.264M: 32Kbps–32768Kbps H.264H: 32Kbps–32768Kbps H.265: 32Kbps–32768Kbps	
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StorageDahua 16G, 32G and 64G; SanDisk 16G, 32G and 64GImage Tampering PreventionYes. Video/picture can be checked through watermark and verificationMax Illumination Distance30 m (98.43 ft)Max Speed that the Camera Detects80 km/hAlarm EventAlarm in the case of no storage card, not enough storage space, storage card error, network disconnection, IP conflict, and illegal accessSecurity ModeAuthorized username and password, MAC address binding, HTTPS encryption, IEEE 802.1x, and network access controlOSD OverlaySupports overlay of time, address (position of channel), lane (number/direction), plate (number and color), vehicle (speed, color, type)ANR (Automatic Network Replenishment)Yes. Platform/FTP	Shutter	Single shutter	
Preventionand verificationMax Illumination Distance30 m (98.43 ft)Max Speed that the Camera Detects80 km/hAlarm EventAlarm in the case of no storage card, not enough storage space, storage card error, network disconnection, IP conflict, and illegal accessSecurity ModeAuthorized username and password, MAC address binding, HTTPS encryption, IEEE 802.1x, and network access controlOSD OverlaySupports overlay of time, address (position of channel), lane (number/direction), plate (number and color), vehicle (speed, color, type)ANR (Automatic Network Replenishment)Yes. Platform/FTP	Storage	, , , , , , , , , , , , , , , , , , , ,	
Max Speed that the Camera Detects80 km/hAlarm EventAlarm in the case of no storage card, not enough storage space, storage card error, network disconnection, IP conflict, and illegal accessSecurity ModeAuthorized username and password, MAC address binding, HTTPS encryption, IEEE 802.1x, and network access controlOSD OverlaySupports overlay of time, address (position of channel), lane (number/direction), plate (number and color), vehicle (speed, color, type)ANR (Automatic Network Replenishment)Yes. Platform/FTP			
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Alarm Event       space, storage card error, network disconnection, IP conflict, and illegal access         Security Mode       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)         ANR (Automatic Network replenishment)       Yes. Platform/FTP		80 km/h	
Security Mode     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)       ANR (Automatic Network Replenishment)     Yes. Platform/FTP	Alarm Event		
OSD Overlay lane (number/direction), plate (number and color), vehicle (speed, color, type) ANR (Automatic Network Replenishment) Yes. Platform/FTP	Security Mode	binding, HTTPS encryption, IEEE 802.1x, and network	
Replenishment)	OSD Overlay	lane (number/direction), plate (number and color),	
Auto Register Yes		Yes. Platform/FTP	
	Auto Register	Yes	

Intelligence		
Vehicle Detection	Vehicle capture rate ≥99%	
Vehicle Recognition	Supports recognizing vehicle type, vehicle logo, vehicle color, license plate, and vehicle without plate. Vehicle recognition rate ≥95%	
Video Metadata	Yes	
Intelligent Track Frame	Intelligent frame display. Supports displaying vehicle plate and vehicle path	
Ports		
Lens	Lens in the camera module	
Analog Output	1	
Ethernet Port	1 100/1000M Ethernet port (RJ45)	
RS-485 Port	2	
RS-232 port	1	
Alarm Input	3, optocoupler input (switch quantity)	
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	< 20W	
Working Temperature	-30°C to +65°C (-22°F to +149 °F)	
Working Humidity	10%–90% (no condensation)	
Housing	Metal and plastic	
Protection Grade	IP67	
Dimensions (L×W×H)	370.4mm×124.7mm×105.7mm (14.58"×4.91"×4.16")	
Net Weight	1.7kg (3.75lb)	
Gross Weight	2.5kg (5.51lb)	
Installation	Universal joint installation	
Lens	10mm–50mm (0.39"–1.97")	
Certification		
CE, FCC	Yes	
RoHS	Yes	

# DHI-ITC237-PW6M-IRLZF1050

Ordering Information			
Туре	Part Number	Description	
2MP Camera	DHI-ITC237-PW6M- IRLZF1050	2MP long range access ANPR camera (850nm built-in IR illuminator)	
Bracket	PFA162	3-dimensional universal mounting bracket	

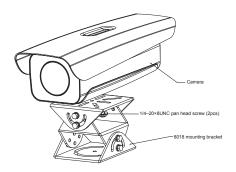
### Accessories

### **Optional:**



PFA162 3-dimensional universal mounting bracket

### Installation



# Dimensions (mm[inch])



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