

# DHI-ITC215-PW4I-IRLZF27135

2 Megapixel Full HD AI Access ANPR Camera



- 1/2.8 inch 2Megapixel Progressive scan CMOS
- · WDR, Day/Night(ICR), 3DNR, BLC, HLC
- · H.265& H.264 dual-stream encoding
- · Micro SD memory
- · Powerful 2.7-13.5mm motorized lens and IR light, ideal for monitor ANPR distance 3-8m
- · IP67, and superior performance for outdoor applications
- · Embedded with LPR algorithm inside the camera
- · Vehicle data structuring: license plate recognition, vehicle size, vehicle color detection and etc.

















### Overview

The 2-megapixel CMOS full HD AI access ANPR camera with the features as high color restoration, low illuminance and build-in IR light, can be used in parking and access control scenario. It can detect the vehicles from the video(>99% capture rate without loop), recognize the plate in low speed less than 40kmh and structure the vehicle data with the embedded deep learning algorithm. Besides, with whitelist inside, this camera can control the barrier open by itself.

### **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 is 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 world-wide. The majority countries and areas in Europe, South America, Mid and South Asia, and etc., are supported. The AI ANPR camera will provide a cutout snapshot of plate, the vehicle overview image and also 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.

### **Excellent image quality**

Embedded with leading image processing and wide dynamic range (WDR) technology, clear image of vehicle and plate detail can be achieved even in the night and most intense contrast lighting conditions. With True WDR (120Db), the camera can prevent the impact of head light when the vehicles approach in night (The camera installation height should between  $1.2 \text{m}^2\text{2m}$ ).

### Adequate physical interface

The device supports external one channel HDCVI video stream input, which can connect to an extra camera for video surveillance on the entrance or behind the barrier.

3 ports to control the barrier and 3 port for the alarm input, which can support traditional trigger methods like loop detector.



# **Technical Specification**

# Camera

Image Sensor	1/2.8 inch 2 Megapixel 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
IR Light Distance	Up to 12M
IR light LEDs	6

# Lens

Lens Type	Motorized/ Auto Iris(DC)
Mount Type	Board-in Type
Focal Length	2.7mm~13.5mm
Max Aperture	F1.3
Angle of View	H: 119°~ 32° V:65° ~18°
Focus control	Auto
ANPR Distance	3-8M

# 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		
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2000 1000 00 00 00 00 00 00 00 00 00 00 0	OSD overlay	Time, place,plate number, etc.
Barrier control Relay out to control the barrier	White list	10000 records database inside the camera
	Barrier control	Relay out to control the barrier

# Interface

Audio Interface	1 Input/1 Output
RS485	2
Alarm	3/3 channel In/Out

# Video

CompressionH.265/H.264M/H.264H/H.264BResolution1080P(1920x1080) / 720P(1280x720) / D1(704x576)Frame RateMain Stream: 1080P(1 ~ 25/30fps) Sub Stream: 720P/ D1 (1 ~ 25/30fps)Bit Rate ControlCBR, VBRBit Rate32 ~ 16384 KbpsDay/NightAuto(ICR) / Color / B/WDual StreamSupport, Main stream and sub streamWhite BalanceAuto/ManualGain ControlAuto/ManualNoise Reduction3D		
Frame Rate  Main Stream: 1080P(1 ~ 25/30fps) Sub Stream: 720P/ D1 (1 ~ 25/30fps)  Bit Rate Control  CBR, VBR  Bit Rate  32 ~ 16384 Kbps  Day/Night  Auto(ICR) / Color / B/W  Dual Stream  Support, Main stream and sub stream  White Balance  Auto/Manual  Gain Control  Auto/Manual	Compression	H.265/H.264M/H.264H/H.264B
Bit Rate Control  CBR, VBR  Bit Rate  32 ~ 16384 Kbps  Day/Night  Auto(ICR) / Color / B/W  Dual Stream  White Balance  Auto/Manual  Gain Control  Sub Stream: 720P/ D1 (1 ~ 25/30fps)	Resolution	1080P(1920x1080) / 720P(1280x720) / D1(704x576)
Bit Rate 32 ~ 16384 Kbps  Day/Night Auto(ICR) / Color / B/W  Dual Stream Support, Main stream and sub stream  White Balance Auto/Manual  Gain Control Auto/Manual	Frame Rate	
Day/Night Auto(ICR) / Color / B/W  Dual Stream Support, Main stream and sub stream  White Balance Auto/Manual  Gain Control Auto/Manual	Bit Rate Control	CBR, VBR
Dual Stream  Support, Main stream and sub stream  White Balance  Auto/Manual  Gain Control  Auto/Manual	Bit Rate	32 ~ 16384 Kbps
White Balance Auto/Manual  Gain Control Auto/Manual	Day/Night	Auto(ICR) / Color / B/W
Gain Control Auto/Manual	Dual Stream	Support, Main stream and sub stream
	White Balance	Auto/Manual
Noise Reduction 3D	Gain Control	Auto/Manual
	Noise Reduction	3D

# 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
	FCC

### Environmental

Operating Conditions	-30°C~+65°C, Less than 90% RH
Ingress Protection	IP67

### Construction

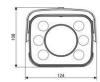
Dimensions(no bracket)	297mm × 124mm× 108mm
Dimension(with bracket)	482mm × 124mm× 196mm
Net Weight	1.9kg(no bracket)/3.3kg(with bracket)

### Eelectrical

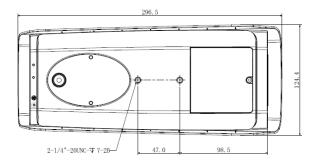
Power Supply	DC12V, PoE +(802.3at)
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Ordering Information		
Туре	Part Number	Description
2MP camera(no bracket)	DHI-ITC215-PW4I- IRLZF27135(without bracket)	2 Megapixel Full HD AI Access ANPR Cam-
	ITC215-PW4I- IRLZF27135(without bracket)	era without bracket
2MP camera(with bracket)	DHI-ITC215-PW4I- IRLZF27135	2 Megapixel Full HD AI Access ANPR Cam-
	ITC215-PW4I- IRLZF27135	era with bracket

# **Dimensions without Bracket(mm/inch)**







# **Dimensions with Bracket(mm/inch)**



