

# DHI-ITC436-PW9H-IZP

Dahua 4MP Smart ANPR Camera



### System Overview

With its multi-core processor, the Smart ANPR Camera Series delivers high quality images. It uses deep learning algorithms and the high performance CMOS image sensor to perform detection 24/7 and take snapshots of both motor and non-motor vehicles. Cameras in this series can extract attributes such as the model, logo, series and color of vehicles. They also contain various types of signal communication ports, which can meet the requirements for control over peripherals such as barriers and radars.

### **Functions**

### Vivid Images

With its intuitive CMOS image sensor, the camera has WDR, a high signal-to-noise ratio, and is highly sensitive, producing vivid images 24/7, making it ideal for use in the traffic industry.

### **Smart Illumination**

The built-in 485 illuminator can be controlled through the webpage. It supports the normally open and normally closed alarm output modes, and easily adapts to scenes by adjusting itself according to the brightness of the environment.

- High-performance CMOS image sensor and processor that supports continuously extracting metadata 24/7.
- Built-in warm light and IR illuminator, the device can switch between two colors, and automatically control the switch or adjust the brightness according to the environment brightness, reducing light pollution and power consumption.
- RS-485 port is used to connect to peripherals such as gates and radars to obtain the working status of devices in real time, achieving remote operation and device health management.
- The intelligent defogging technology can prevent glass from freezing and fogging, which meets all-weather use.
- Designed with integrated structure of low power consumption, IP66 rated.
- Easily adapts to scenarios through its motorized vari-focal lens.



### **Impressive Performance**

The high-performance CPU processor extracts and analyzes information on motor and non-motor vehicles in real time, providing valuable information on their features. This information is useful for effective decision making.

### **Easy Installation**

Easy to install and commission, the camera has an LED illuminator and motorized vari-focal lens embedded in its structure.

### Scene

Suitable for shopping malls, hospitals, schools, communities, office buildings and stations.

# Smart ANPR Camera Series | DHI-ITC436-PW9H-IZP

### **Technical Specification**

### Camera

ded)		
4 GB		
Progressive scanning		
2.7 mm-12 mm		
entify		
entify 6.0 m 9.69 ft)		
2 GB >56 dB		

### Illuminator

Illuminator Number	3 (White LED illuminator with IR light)	
Illuminator Color Temperature	3000 K	
Illuminator Brightness Adjustment	Auto, manual	
Illuminator On/Off Control	Auto, manual	
Illumination Distance	8 m (26.25 ft)	
Smart Illumination	According to the brightness of the environment, the camera automatically adjusts the intensity of its light to reveal the details of moving targets. Devices with warm light can automatically adjust the light intensity according to the time.	
Infrared Wavelength	850 nm	
Video		
Video Resolution	Main stream: 4MP (2688 × 1520)/1080p (1920 × 1080)/720p (1280 × 720) Sub stream: 960H (960 × 576)/D1 (704 × 576)	
Video Frame Rate	PAL: Main stream (2688 × 1520@25 fps, 1920 ×1080@25 fps, 1280 × 720@25 fps), sub stream (960 ×576@25 fps, 704 × 576@25 fps)	

Video Compression	H.264H; H.264B; H.265; MJPEG; H.264M	
Video Bit Rate	H.264B: 2,179 kbps–13,074 kbps; H.264M: 2,179 kbps–13,074 kbps; H.264H: 2,179 kbps–13,074 kbps; H.265: 2,179 kbps–13,074 kbps; MJPEG: 6,537 kbps–39,223 kbps	
Scene Self-adaptation (SSA)	Yes	
Gain Control	Manual; Auto	
Noise Reduction	3D NR	
Region of Interest (RoI)	Yes, 3	
Image Tampering Prevention	Yes. Watermarks can be added to videos and images. The watermark can also be verified.	
Privacy Masking	Yes	
Bit Rate Control	CBR/VBR	
Network		
Network Protocol	HTTP; Https; 802.1x; TCP; ARP; RTSP; RTP; UDP; RTCP; SMTP; FTP; DHCP; DNS; IPv4/v6; NTP; SFTP; DDNS; SNMP; PPPoE	
API	Yes	
SDK	Yes	
Interoperability	ONVIF (Profile S/Profile T); CGI; ITSAPI; P2P	
Management Software	DSS express; DSS pro	
Security	Username and password; MAC address; HTTPS; IEEE 802.1x; network access control	
Browser	Plug in: IE 9, 10, 11. Chrome 52 and earlier versions Firefox 42 and earlier versions No plug in: Chrome 92 and later versions	
Image		
Image Encoding Format	JPEG	
Image Setting	Brightness; contrast; saturation; gamma; sharpness; gain; white balance	
Day/Night	IR filter, support three modes: color, B/W, auto	
WDR	140 dB	
HLC	Yes	
BLC	Yes	
White Balance	Auto; Regional Custom; Manual; Outdoor; Natural; Street Lamp	
Digital Detail Enhancement (DDE)	Yes	
OSD Overlay	Supports overlay of time; address (position of channel), lane (number/direction), plate (number and color), vehicle (color and type)	
Audio		
Audio Port	Yes	
Port		
Audio Input	1 channel (terminal)	

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Audio Output	1 channel (terminal)	
Audio Output Network Port	1 channel (terminal)	
	1 × RJ-45 100/1000 Mbps Ethernet port	
Storage	TF card holder + direct plug 3 channel, optocoupler input (wet node on-off value:	
Alarm Input	5 V)	
Alarm Output	2 channel, relay output (2 A, 30 VDC/0.5 A, 125 VAC), which can connect to devices such as barriers	
RS-485	2 channel	
Reset Button	Yes	
Number of Memory Slots	1	
Performance		
Maximum Number of Passed Vehicles	10000	
Max. Number of Connections	10	
Function		
Restricted List/Trusted List	Allowlist: 110,000 Blocklist: 110,000	
Basic Event	Alarms for events of no storage card, storage card no space, storage card error, network disconnection, IP conflict, and illegal access.	
Alarm Linkage	Upload to FTP/Memory card, notify monitoring center, send e-mail, trigger alert output.	
Capture Distance	2.5 m–6 m (8.20 ft–19.69 ft)	
Detected Width	3 m-4 m (9.84 ft-13.12 ft)	
Storage	Built-in one TF card port; TF card (up to 256 GB)	
Intelligence		
AI Recognition	Recognizes vehicle types, vehicle signs, vehicle color, vehicle plate, vehicle without plate.	
Video Metadata	Displays the intelligent frame, plate and vehicle paths.	
Vehicle Brand	Recognizes 147 vehicle logos.	
Vehicle Color	Recognizes 12 colors: Grey, black, white, silver, blue, green, purple, red, orange, pink, brown, and yellow.	
Vehicle Type Recognition	Recognizes 10 vehicle types: Large Bus, Heavy Truck, Medium Truck, Sedan, Van, Light Truck, Medium Bus, SUV, MPV, Pickup	

Capture RateIn the recommended installation and lighting condition, the recognition rate for positive and departing vehicless s98%Recognition RateSinthe recognition rate for positive and departing vehicles s98%GeneralIs voc consumption rate for positive and departing vehicles s98%Power Supply12 VDC, 2 A, PoE 802.3at; max 20 WPower ConsumptionOwer consumption in different conditions: No lighting < 10 W Lighting < 20 W	Country and Region Supported by ANPR	Baseline support: 10 options (87 countries) General: Supports universal characters GCC (U.A.E., Saudi Arabia, Morocco, Oman, Iraq, Egypt, Jordan, Qatar, Kuwait, Bahrain, Lebanon) South Africa: South Africa, Tanzania, Mozambique, Zambia, Uganda, Equatorial Guinea, Mauritius, Kenya South Asia Region (India Region) : India, Maldives Europe (Netherlands, France, Germany, Britain, Italy, Poland, Belgium, Bulgaria, Serbia, Slovakia, Spain, Denmark, Turkey, Israel, Czech Republic, Bosnia and Herzegovina, Switzerland, Austria, Hungary, Romania, Lithuania, Latvia, Sweden, Estonia, Portugal, Greece, Slovenia, Luxembourg, Palestine, Lebanon, Ireland, Finland, Norway, Croatia, North Macedonia) South American Economies Collection (Uruguay, Paraguay, Brazil, Argentina, Chile, Colombia, Peru, Ecuador, Guyana, Bolivia ) Mexico and other countries: Mexico, Costa Rica, Curacao, Guatemala Eurasian Collection (Russia, Ukraine, Kazakhstan, Kyrgyzstan, Uzbekistan, Tajikistan, Moldova, Lithuania, Latvia, Georgia, Azerbaijan, Turkmenistan) North America (United States, Canada) North Africa Region Collection: Tunisia, Morocco, Algeria, Libya The baseline algorithm is supported for the following 19 countries: Republic of Korea, Indonesia, Singapore, Cambodia, Australia, Thailand, Bassett, Nigeria, Pakistan, Viet Nam, Mongolia, Bangladesh, Myanmar, Philippines, Laos, Iraq, Japan, Maldives, Nepal.	
Recognition Ratethe recognition rate for positive and departing vehicles b6%; the recognition rate for European vehicle plates b98%GeneralPower Supply12 VDC, 2 A, PoE 802.3at; max 20 WPower Consumption12 VDC, 2 A, PoE 802.3at; max 20 WPower ConsumptionOughting <10 W Lighting <20 WDefog (Glass Heating)Automatic defogProtectionIP66Anti-corrosion LevelBasic ProtectionMaterialMetal + plasticProduct Dimensions80.9 mm x 154.1 mm x 1423.6 mm (15.00" x 6.07" x 5.605")Packaging Dimensions855.0 mm x 239.0 mm x 251.0 mm (73.03" x 9.41" x 9.88")Net Weight.25 kg (15.98 lb)Gross Weight11.05 kg (24.36 lb)Storage Temperature-40 °C to +70 °C (-40 °F to +158 °F)Operating Temperature.30° C to +65 °C (-22 °F to +149 °F)Operating HumidityEUKCA	Capture Rate		
Power Supply12 VDC, 2 A, PoE 802.3at; max 20 WPower ConsumptionPower consumption in different conditions: No lighting <10 W Lighting <20 WDefog (Glass Heating)Automatic defogProtectionIP66Anti-corrosion LevelBasic ProtectionMaterialMetal + plasticProduct Dimensions380.9 mm × 154.1 mm × 1423.6 mm (15.00" × 6.07" × 56.05")Packaging Dimensions1855.0 mm × 239.0 mm × 251.0 mm (73.03" × 9.41" × 9.88")Net Weight7.25 kg (15.98 lb)Gross Weight11.05 kg (24.36 lb)Storage Temperature-40 °C to +70 °C (-40 °F to +158 °F)Operating Temperature-30 °C to +65 °C (-22 °F to +149 °F)Operating HumidityCE UKCA	Recognition Rate	the recognition rate for positive and departing vehicles≥ 96%; the recognition rate for European vehicle plates	
Power ConsumptionPower consumption in different conditions: No lighting <10 W Lighting <20 WDefog (Glass Heating)Automatic defogProtectionIP66Anti-corrosion LevelBasic ProtectionMaterialMetal + plasticProduct Dimensions380.9 mm × 154.1 mm × 1423.6 mm (15.00" × 6.07" × S.6.05")Packaging Dimensions1855.0 mm × 239.0 mm × 251.0 mm (73.03" × 9.41" × 9.88")Net Weight.25 kg (15.98 lb)Gross Weight1.05 kg (24.36 lb)Storage Humidity.95% (RH), non-condensingOperating Temperature.30 °C to +65 °C (-22 °F to +149 °F)Operating HumidityI0%-95% (RH), non-condensingCertificationsCE UKCA	General		
Power ConsumptionNo lighting < 10 W Lighting <20 WDefog (Glass Heating)Automatic defogProtectionIP66Anti-corrosion LevelBasic ProtectionMaterialMetal + plasticProduct Dimensions380.9 mm × 154.1 mm × 1423.6 mm (15.00" × 6.07" × 56.05")Packaging Dimensions1855.0 mm × 239.0 mm × 251.0 mm (73.03" × 9.41" × 9.88")Net Weight7.25 kg (15.98 lb)Gross Weight11.05 kg (24.36 lb)Storage Humidity<95% (RH), non-condensingOperating Temperature-30 °C to +65 °C (-22 °F to +149 °F)Operating HumidityI0%-95% (RH), non-condensingCertificationsCE UKCA	Power Supply	12 VDC, 2 A, PoE 802.3at; max 20 W	
ProtectionIP66Anti-corrosion LevelBasic ProtectionMaterialMetal + plasticProduct Dimensions380.9 mm × 154.1 mm × 1423.6 mm (15.00" × 6.07" × 56.05")Packaging Dimensions1855.0 mm × 239.0 mm × 251.0 mm (73.03" × 9.41" × 9.88")Net Weight7.25 kg (15.98 lb)Gross Weight11.05 kg (24.36 lb)Storage Humidity<95% (RH), non-condensing	Power Consumption	No lighting < 10 W	
Anti-corrosion LevelBasic ProtectionMaterialMetal + plasticProduct Dimensions $380.9  \text{mm} \times 154.1  \text{mm} \times 1423.6  \text{mm} (15.00" \times 6.07" \times 56.05")}$ Packaging Dimensions $380.9  \text{mm} \times 239.0  \text{mm} \times 251.0  \text{mm} (73.03" \times 9.41" \times 9.88")}$ Packaging Dimensions $1855.0  \text{mm} \times 239.0  \text{mm} \times 251.0  \text{mm} (73.03" \times 9.41" \times 9.88")}$ Net Weight $7.25  \text{kg} (15.98  \text{lb})$ Gross Weight $11.05  \text{kg} (24.36  \text{lb})$ Storage Humidity $s95\%  (RH),  \text{non-condensing}$ Operating Temperature $-40  ^\circ \text{C}  \text{to} + 70  ^\circ \text{C}  (-40  ^\circ \text{F}  \text{to} + 158  ^\circ \text{F})$ Operating Temperature $-30  ^\circ \text{C}  \text{to} + 65  ^\circ \text{C}  (-22  ^\circ \text{F}  \text{to} + 149  ^\circ \text{F})$ Operating Humidity $10\% - 95\%  (RH),  \text{non-condensing}$ CertificationsCE UKCA	Defog (Glass Heating)	Automatic defog	
MaterialMetal + plasticProduct Dimensions $380.9 \text{ mm} \times 154.1 \text{ mm} \times 1423.6 \text{ mm} (15.00" \times 6.07" \times 56.05")$ Packaging Dimensions $1855.0 \text{ mm} \times 239.0 \text{ mm} \times 251.0 \text{ mm} (73.03" \times 9.41" \times 9.88")$ Net Weight $7.25 \text{ kg} (15.98 \text{ lb})$ Gross Weight $11.05 \text{ kg} (24.36 \text{ lb})$ Storage Humidity $s95\% (RH), \text{ non-condensing}$ Operating Temperature $-40 ^\circ \text{C} \text{ to} + 70 ^\circ \text{C} (-40 ^\circ \text{F} \text{ to} + 158 ^\circ \text{F})$ Operating Humidity $10\% - 95\% (RH), \text{ non-condensing}$ CertificationsCE UKCA	Protection	IP66	
Product Dimensions     380.9 mm × 154.1 mm × 1423.6 mm (15.00" × 6.07" × 56.05")       Packaging Dimensions     1855.0 mm × 239.0 mm × 251.0 mm (73.03" × 9.41" × 9.88")       Net Weight     7.25 kg (15.98 lb)       Gross Weight     11.05 kg (24.36 lb)       Storage Humidity     <95% (RH), non-condensing	Anti-corrosion Level	Basic Protection	
Product Dimensions56.05")Packaging Dimensions1855.0 mm × 239.0 mm × 251.0 mm (73.03" × 9.41" × 9.88")Net Weight7.25 kg (15.98 lb)Gross Weight11.05 kg (24.36 lb)Storage Humidity<95% (RH), non-condensing	Material	Metal + plastic	
Packaging Dimensions 9.88")   Net Weight 7.25 kg (15.98 lb)   Gross Weight 11.05 kg (24.36 lb)   Storage Humidity <95% (RH), non-condensing	Product Dimensions		
Gross Weight11.05 kg (24.36 lb)Storage Humidity<95% (RH), non-condensing	Packaging Dimensions		
Storage Humidity <95% (RH), non-condensing	Net Weight	7.25 kg (15.98 lb)	
Storage Temperature -40 °C to +70 °C (-40 °F to +158 °F)   Operating Temperature -30 °C to +65 °C (-22 °F to +149 °F)   Operating Humidity 10%-95% (RH), non-condensing   Certifications CE UKCA	Gross Weight	11.05 kg (24.36 lb)	
Operating Temperature -30 °C to +65 °C (-22 °F to +149 °F)   Operating Humidity 10%-95% (RH), non-condensing   Certifications CE UKCA	Storage Humidity	≤95% (RH), non-condensing	
Operating Humidity 10%–95% (RH), non-condensing   Certifications CE UKCA	Storage Temperature	-40 °C to +70 °C (-40 °F to +158 °F)	
Certifications CE UKCA	Operating Temperature	-30 °C to +65 °C (-22 °F to +149 °F)	
	Operating Humidity	10%–95% (RH), non-condensing	
Display Screen Type LED	Certifications	CE UKCA	
	Display Screen Type	LED	

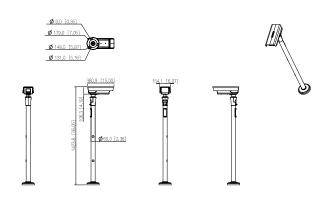
## Smart ANPR Camera Series | DHI-ITC436-PW9H-IZP

Ordering Information				
Туре	Model	Description		
Smart ANPR Camera Series	DHI-ITC436-PW9H- IZP	Dahua 4MP Smart ANPR Camera		

### Installation



### Dimensions (mm [inch])



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