

DHI-ITC436-PW9H-IZ

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.
- Supports continuously extracting metadata 24/7, and vehicle capture rate and license plate recognition rate reach above 99.9%.
- 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.

Technical Specification						Video Compression	H.264H; H.264B; H.265; MJPEG; H.264M
Camera Image Sensor		1/1.8" CMOS				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;
Image Resolution		2688 (H) × 1520 (V) (OSD black edge is not included)					H.265: 2,179 kbps–13,074 kbps; MJPEG: 6,537 kbps–39,223 kbps
Electronic Shutter Speed		Auto/Manual	1/25 s-1/10,00	00 s		Scene Self-adaptation (SSA)	Yes
Max. Detection Speed		60 km/h				Gain Control	Manual; Auto
Adia Ulauriantian		0.001 lux@F1.4 (Color, 30 IRE) 0.0002 lux@F1.4 (B/W, 30 IRE)				Noise Reduction	3D NR
Min. Illumination		0.0002 lux@f	. , ,	(E)		Region of Interest (RoI)	Yes, 3
ROM		4 GB				Image Tampering Prevention	Yes. Watermarks can be added to videos and images. The watermark can also be verified.
RAM		2 GB				Privacy Masking	Yes
S/N Ratio	S/N Ratio					Bit Rate Control	CBR/VBR
Scanning Sys	stem	progressive s	canning			Network	
Lens						Network Protocol	HTTP; Https; 802.1x; TCP; ARP; RTSP; RTP; UDP; RTCP; SMTP; FTP; DHCP; DNS; IPV4/v6; NTP; SFTP; DDNS;
Focal Length		2.7 mm-12 m	nm			Network Flotocol	SNMP; PPPOE
Field of View		H: 98.1°-46.1	L°; V: 54.0°–26.0	0°; D: 114.6°–5	2.8°	API	Yes
Focus Control		Auto, area fo	cus, manual			SDK	Yes
Number of Lens		1				Interoperability	ONVIF (Profile S/Profile G/Profile T); CGI; ITSAPI; P2P
Lens Type		Motorized va	ri-focal			Management Software	DSS express; DSS pro
Max. Aperture		1.6				Security	Username and password; MAC address; HTTPS; IEEE 802.1x; network access control
Iris Control		Fixed					Plug in: IE 9, 10, 11. Chrome 52 and earlier versions Firefox 42 and earlier versions
DORI	Lens W	Detect 60.4 m	Observe 24.2 m	Recognize	Identify 6.0 m	Browser	
Distance		(198.16 ft) 128.7 m	(79.40 ft) 51.5 m	(39.70 ft) 25.7 m	(19.69 ft) 12.9 m		No plug in: Chrome 92 and later versions
	Т	(422.24 ft)	(168.96 ft)	(84.32 ft)	(42.32 ft)	Image	
Illuminator						Image Encoding Forma	t JPEG
Illuminator Number		3 (White LED	illuminator wit	h IR light)		Image Setting	Brightness; contrast; saturation; gamma; sharpness; gain; white balance
Illuminator Color Temperature		3000 K				Day/Night	IR filter, support three modes: color, B/W, auto
Illuminator Brightness Adjustment		Auto, manua	I			WDR	140 dB
Illuminator On/Off Control		Auto, manua	I			HLC	Yes
Illumination	Illumination Distance)			BLC	Yes
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				White Balance	Auto; Regional Custom; Manual; Outdoor; Natural; Street Lamp
			n automatically			Digital Detail Enhancement (DDE)	Yes
Infrared Wavelength		850 nm				OSD Overlay	Supports overlay of time; address (position of channel), lane (number/direction), plate (number and color), vehicle (color and type)
Video				Audio			
Video Resolution		1080)/720p (: 4MP (2688 × 1 1280 × 720) 960H (960 × 576			Audio Port	Yes
			eam (2688 × 15			Port	
Video Frame Rate		×1080@25 fp	os, 1280 × 720@ s, 704 × 576@2!	25 fps), sub st		Audio Input	1 channel (terminal)

Audio Output	1 channel (terminal)		Baseline support: 10 options (80 countries)
Network Port	1 × RJ-45 100/1000 Mbps Ethernet port		General: Supports universal characters GCC (U.A.E., Saudi Arabia, Morocco, Oman, Iraq, Egypt, Jordan, Qatar, Kuwait, Bahrain, Lebanon) South Africa: Zambia, Uganda, Equatorial Guinea,
Storage	TF card holder + direct plug		
· ·	3 channel, optocoupler input (wet node on-off value:		Mauritius South Asia Region (India Region) : India, Maldives
Alarm Input	5 V)		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) SADC (Uruguay, Paraguay, Brazil, Argentina, Chile, Colombia, Peru, Ecuador, Guyana, Bolivia) Mexico and other countries: Mexico, Costa Rica, Curacao, Guatemala Russian-speaking regions (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
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	Country and Region Supported by ANPR	
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		
	Alarms for events of no storage card, storage card no	Capture Rate	In the recommended installation and lighting condition, the vehicle capture rate $\geq 99\%$
Basic Event	space, storage card error, network disconnection, IP conflict, and illegal access.	Recognition Rate	In the recommended installation and lighting condition, the recognition rate for positive and departing vehicles≥ 96%; the recognition rate for European vehicle plates
Alarm Linkage	Upload to FTP/Memory card, notify monitoring center, send e-mail, trigger alert output.		≥ 98%
Capture Distance	2.5 m-6 m (8.20 ft-19.69 ft)	General	
Detected Width	3 m-4 m (9.84 ft-13.12 ft)	Power Supply	12 VDC, 2 A, PoE 802.3at; max 20 W
Storage	Built-in one TF card port; TF card (up to 256 GB)	Power Consumption	Power consumption in different conditions: No lighting < 10 W Lighting <20 W
Intelligence		Defog (Glass Heating)	Automatic defog
Al Recognition	Recognizes vehicle types, vehicle signs, vehicle color, vehicle plate, vehicle without plate.	Protection	IP66
Video Metadata	Displays the intelligent frame, plate and vehicle paths.	Anti-corrosion Level	Basic Protection
Vehicle Brand	Recognizes 147 vehicle logos.	Material	Metal + plastic
Vehicle Color	Recognizes 12 colors: Grey, black, white, silver, blue, green, purple, red, orange, pink, brown, and yellow.	Product Dimensions	380.9 mm × 154.1 mm × 104.3 mm (15.00" × 6.07" × 4.11")
	Recognizes 10 vehicle types: Large Bus, Heavy Truck,	Packaging Dimensions	462.0 mm × 217.0 mm × 180.0 mm (18.19" × 8.54" × 7.09")
Vehicle Type Recognition	Medium Truck, Sedan, Van, Light Truck, Medium Bus, SUV, MPV, Pickup	Net Weight	2.28 kg (5.03 lb)
		Gross Weight	2.79 kg (6.15 lb)
		Storage Humidity	≤95% (RH), non-condensing
		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

Display Screen Type

CE UKCA

LED

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

Installation



Dimensions (mm [inch])

