



อ่านไว แม่นยำ บันทึกทะเบียนได้มากกว่า 10,000 ป้ายทะเบียน



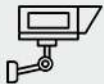
อ่านป้ายทะเบียนได้แม่นยำ



อ่านทะเบียนภายใน 1-2 วินาที



ภาพคมชัด ทุกสภาพอากาศ



กล้องความละเอียด 4MP



กำหนดสิทธิ์ป้ายทะเบียน (Blacklist)



ดูข้อมูลและรายการย้อนหลัง

เหมาะสำหรับโครงการและลานจอดรถคิดเงิน



ลานจอดรถคิดเงิน



คอนโดมิเนียม



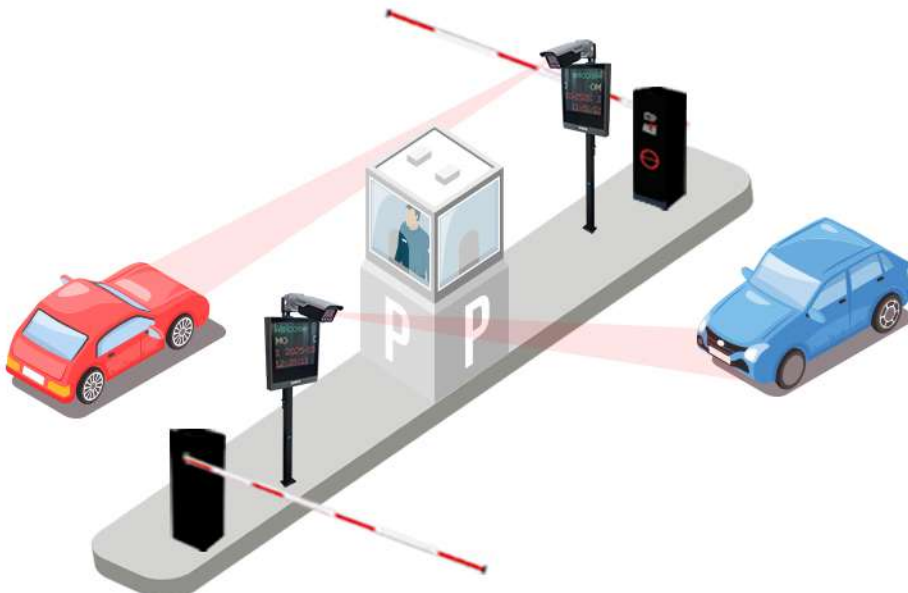
หมู่บ้านจัดสรร



อาคารสำนักงาน



ห้างสรรพสินค้า



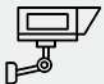
ตัวอย่าง: รูปแบบการติดตั้งระบบกล้องอ่านป้ายทะเบียน



ANPR Camera

กล้องอ่านป้ายทะเบียนรถยนต์

เซ็นเซอร์ภาพ CMOS ประสิทธิภาพสูงและโปรเซสเซอร์ที่รองรับการดึงข้อมูล (Metadata) ตลอด 24 ชั่วโมง เรียนรู้เชิงลึกอัจฉริยะและรองรับการจดจำยานพาหนะที่ไม่ได้รับอนุญาต สามารถวิเคราะห์ตัวอักษรจากภาพเพื่ออ่านป้ายทะเบียนอย่างแม่นยำ จำแนกสีและประเภทของรถได้ช่วยเพิ่มประสิทธิภาพในการตรวจสอบและการจัดการข้อมูลยานพาหนะ



กล้องประสิทธิภาพสูง
ความละเอียด 4 ล้านพิกเซล



อ่านทะเบียนและประมวลผล
ภายใน 1-2 วินาที



อ่านทะเบียนได้แม่นยำ
จำแนกสีและประเภทของรถ



ป้องกันน้ำกันฝุ่น IP67
และป้องกันแรงกระแทก IK10



โปรเซสเซอร์ที่รองรับ
การดึงข้อมูล Metadata



มีไฟ LED ในตัวกล้อง
อ่านป้ายได้ชัดเจนในที่มืด

Smart ANPR Camera

Technical Specification

Camera

Image Sensor	1/1.8" CMOS
Image Resolution	2688 × 1520
Electronic Shutter Speed	Auto/Manual 1/25s~1/10,000s
Max. Detection Speed	DHI-ITC413-PW4D-Z1, DHI-ITC413-PW4D-IZ1:80 km/h DHI-ITC413-PW4D-Z3, DHI-ITC413-PW4D-IZ3:120 km/h
Min. Illumination	DHI-ITC413-PW4D-Z1,DHI-ITC413-PW4D-IZ1: 0.001 Lux@F1.4 (Color, 30 IRE) 0.0002 Lux@F1.4 (B/W, 30 IRE) 0 Lux (Illuminator on) DHI-ITC413-PW4D-Z3,DHI-ITC413-PW4D-IZ3: 0.001 Lux@F1.6 (Color, 30 IRE) 0.0002 Lux@F1.6 (B/W, 30 IRE) 0 Lux (Illuminator on)
ROM	1 GB
RAM	4 GB
S/N Ratio	>56 dB
Scanning System	progressive scanning

Lens

Focal Length	DHI-ITC413-PW4D-Z1, DHI-ITC413-PW4D-IZ1: 2.7 mm—12 mm DHI-ITC413-PW4D-Z3, DHI-ITC413-PW4D-IZ3: 8 mm—32 mm
Field of View	DHI-ITC413-PW4D-Z1, DHI-ITC413-PW4D-IZ1: H: 92° (W)—46.1° (T) V: 49° (W)—26.0° (T) D: 109° (W)—52.8° (T) DHI-ITC413-PW4D-Z3, DHI-ITC413-PW4D-IZ3: H: 39.9° (W)—15.1° (T) V: 21.8° (W)—8.5° (T) D: 46.6° (W)—17.4° (T)
Focus Control	Auto, area focus, manual
Number of Lens	1
Lens Type	Motorized Vari-focal
Max. Aperture	DHI-ITC413-PW4D-Z1, DHI-ITC413-PW4D-IZ1:1.4 DHI-ITC413-PW4D-Z3, DHI-ITC413-PW4D-IZ3:1.6
Iris Control	DHI-ITC413-PW4D-Z1, DHI-ITC413-PW4D-IZ1:DC-Iris DHI-ITC413-PW4D-Z3, DHI-ITC413-PW4D-IZ3:P-Iris

DORI Distance	Lens	Detect	Observe	Recognize	Identify
	W: (DHI-ITC413-PW4D-Z1, DHI-ITC413-PW4D-IZ1)	60.4 m (198.16 ft)	24.2 m (79.40 ft)	12.1 m (39.70 ft)	6.0 m (19.68 ft)
	T: (DHI-ITC413-PW4D-Z1, DHI-ITC413-PW4D-IZ1)	128.7 m (422.24 ft)	51.5 m (168.96 ft)	25.7 m (84.32 ft)	12.9 m (42.32 ft)
	W: (DHI-ITC413-PW4D-Z3, DHI-ITC413-PW4D-IZ3)	160.0 m (524.93 ft)	64.0 m (209.97 ft)	32.0 m (104.99 ft)	16.0 m (52.49 ft)
	T: (DHI-ITC413-PW4D-Z3, DHI-ITC413-PW4D-IZ3)	406.9 m (1334.97 ft)	162.8 m (534.12 ft)	81.4 m (267.06 ft)	40.7 m (133.53 ft)

Illuminator

Illuminator Number	4
Illuminator On/Off Control	Auto, manual
Illuminator Type	DHI-ITC413-PW4D-IZ1, DHI-ITC413-PW4D-IZ3:IR (850 nm) DHI-ITC413-PW4D-Z1, DHI-ITC413-PW4D-Z3: Dual Illuminators (730 nm IR/warm light)
Illumination Distance	DHI-ITC413-PW4D-Z1, DHI-ITC413-PW4D-IZ1: ANPR: 10 m (32.81 ft) Video monitoring: 30 m (98.43 ft) DHI-ITC413-PW4D-Z3, DHI-ITC413-PW4D-IZ3: ANPR: 20 m (65.62 ft) Video monitoring: 60 m (196.85 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	DHI-ITC413-PW4D-IZ1, DHI-ITC413-PW4D-IZ3:850 nm DHI-ITC413-PW4D-Z1, DHI-ITC413-PW4D-Z3:730 nm

Video

Video Resolution	Main stream: 4M (2688 × 1520)/1080p (1920 × 1080)/720p (1280 × 720) Sub stream: 720p (1280 × 720)/960H (960 × 576, 960 × 480)/D1 (704 × 576, 704 × 480)/CIF (352 × 288, 352 × 240)
Stream	PAL: Main stream (2688 × 1520@25 fps, 1920 × 1080@25 fps, 1280 × 720@25 fps), sub stream (1280 × 720@25 fps, 960 × 576@25 fps, 704 × 576@25 fps, 352 × 288@25 fps); NTSC: Main stream (2688 × 1520@30 fps, 1920 × 1080@30 fps, 1280 × 720@30 fps), sub stream (1280 × 720@30 fps, 960 × 480@30 fps, 704 × 408@30 fps, 352 × 240@30 fps)
Video Compression	H.264H; H.264B; H.264M by default; 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.
Bit Rate Control	CBR; VBR

Function

Storage	Built-in TF card port. Supports Kingston 16 G, 32 G, 128 G, 256 G; Dahua card 16 G, 32 G, 128 G, 256 G; SanDisk 16 G, 32 G, 128 G, 256 G
Restricted List/Trusted List	Allowlist: 110,000 Blocklist: 110,000
IVS	Intrusion detection, loitering detection, up to 4 areas can be set.
Basic Event	Alarms for events of defocus, no storage card, storage card no space, storage card error, network disconnection, IP conflict, and illegal access.

Smart ANPR Camera

Sound and Light Alarm	Yes, blue & red indicator, and supports broadcasting custom audio.
Alarm Linkage	Upload to FTP/Memory card, notify monitoring center, send e-mail, trigger alert output, snapshot and active deterrence
Capture Distance	DHI-ITC413-PW4D-Z1, DHI-ITC413-PW4D-IZ1: 3 m–8 m (9.84 ft–26.25 ft) DHI-ITC413-PW4D-Z3, DHI-ITC413-PW4D-IZ3: 8 m–20 m (26.25 ft–65.62 ft)
Detected Width	DHI-ITC413-PW4D-Z1, DHI-ITC413-PW4D-IZ1: 3 m–4 m (9.84 ft–13.12 ft) DHI-ITC413-PW4D-Z3, DHI-ITC413-PW4D-IZ3: 6 m–8 m (19.69 ft–26.25 ft)

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 G/Profile T); CGI; ITSAPI; P2P
Management Software	DSS Pro; DSS Express; Cybercity; Smart PSS
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 (speed, color, type)

Audio

Audio Port	Yes
Built-in MIC	Yes; Pick-up distance: 3 m (9.84 ft), Sampling Rate: 48 k.
Built-in Speaker	Yes; Power: 2 W

Port

Audio Output	1 channel (RCA port)
Network Port	RJ-45 (10/100/1000 self-adaptive Ethernet Port)

Alarm Input	2, optocoupler input (wet node on-off value: 5 V)
Alarm Output	2, relay output (2A 30 VDC/0.5A 125 VAC), which can connect to devices such as barriers
Serial Port	1 RS-232, 2 RS-485
Reset Button	Yes
Wiegand	1 channel, SHA-1 26 bit

Performance

Maximum Number of Passed Vehicles	10,000
Max. Number of Connections	10

Intelligence

AI Recognition	Recognizes vehicle types, vehicle signs, vehicle color, vehicle plate, 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 9 vehicle types: Large Bus, Heavy Truck, Medium Truck, Sedan, Van, Light Truck, Medium Bus, SUV, MPV, Pickup
Country and Region Supported by ANPR	Baseline support: GCC (U.A.E., Saudi Arabia, Morocco, Oman, Iraq, Egypt, Jordan, Qatar, Kuwait, Bahrain, Lebanon) 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) Russian-speaking regions (Russia, Ukraine, Kyrgyzstan, Uzbekistan, Moldova, Lithuania, Latvia, Georgia, Azerbaijan, Turkmenistan) SADC (Uruguay, Paraguay, Brazil, Argentina, Chile, Colombia, Peru, Ecuador, Guyana) North America (United States, Canada) Can be customized: Mongolia, Japan, Philippines, Vietnam, Laos, Cambodia, Myanmar, Thailand, Malaysia, Singapore, Indonesia, Bangladesh, India, Pakistan, Curacao, Mexico, Guatemala, Costa Rica, Australia, New Zealand, Tunisia, Algeria, Ethiopia, Tanzania, Uganda, Equatorial Guinea, Japan, Zambia, Mozambique, South Africa, Mauritius
Capture Rate	In the recommended installation and lighting condition, the vehicle capture rate $\geq 99\%$
Recognition Rate	In the recommended installation and lighting condition, the recognition rate for positive and departing vehicles $\geq 96\%$; the recognition rate for European vehicle plates $\geq 98\%$

General

Remote control	Yes
Communication Band	433 MHz; 868 MHz
Remote Control Distance	15 m (49.21 ft) (In an open, undisturbed environment)
Power Supply	12 VDC, 2 A and POE:802.3at, Type 2, Class 4, (44V to 57V), 0.455A to 0.351A, max.20W
Power Consumption	Power consumption in different conditions: No lighting < 6 W Lighting < 12 W Speaker and Red/Blue Light Warning on < 17 W

Smart ANPR Camera

Protection	IK10; IP67
Material	Aluminum alloy body+Plastic
Product Dimensions	396.0 mm × 120.8 mm × 127.8 mm (15.59" × 4.76" × 5.03") (L × W × H)
Packaging Dimensions	445.0 mm × 238.0 mm × 229.0 mm (17.52" × 9.37" × 9.02")
Net Weight	2.3 kg (5.07 lb)
Gross Weight	3.2 kg (7.05 lb)
Storage Humidity	−40 °C to +70 °C (−40 °F to +158 °F)
Storage Temperature	≤ 95% (non-condensing)
Operating Temperature	−30 °C to +65 °C (−22 °F to +149 °F)
Operating Humidity	10%–90% (non-condensing)
Certifications	CE-EMC; CE-LVD; CE-RED; FCC; FCC-ID

Accessories

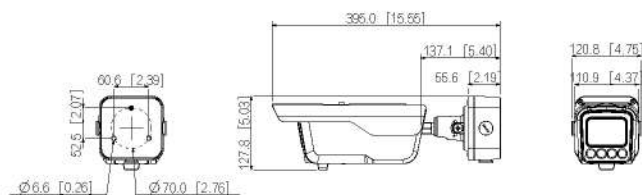
Optional:



PFA150
Pole Mount

Ceiling Mount	Wall Mount	Pole Mount

Dimensions (mm [inch])



Ordering Information		
Type	Part Number	Description
Smart ANPR Camera	DHI-ITC413-PW4D-Z1	4MP Smart ANPR Camera (Dual Illuminators, 2.7 mm-12 mm, 433 MHz)
		4MP Smart ANPR Camera (Dual Illuminators, 2.7 mm-12 mm, 868 MHz)
	DHI-ITC413-PW4D-IZ1	4MP Smart ANPR Camera (IR illuminator, 2.7 mm-12 mm, 433 MHz)
		4MP Smart ANPR Camera (IR illuminator, 2.7 mm-12 mm, 868 MHz)
	DHI-ITC413-PW4D-Z3	4MP Smart ANPR Camera (Dual Illuminators, 8 mm-32 mm, 433 MHz)
		4MP Smart ANPR Camera (Dual Illuminators, 8 mm-32 mm, 868 MHz)
	DHI-ITC413-PW4D-IZ3	4MP Smart ANPR Camera (IR illuminator, 8 mm-32 mm, 433 MHz)
		4MP Smart ANPR Camera (IR illuminator, 8 mm-32 mm, 868 MHz)
Accessories (Optional)	PFA150	Pole Mount