

ITC413-PW4D-IZ1

ITC413-PW4D-IZ1 Kamera 4MP IP

- 4-megapixel IP video camera designed for license plate recognition
- Pixels: 2688 × 1520
- F=2.7 mm-12 mm
- Motorized variofocal lens
- Built-in microphone
- Built-in speaker
- IP67

Type	IP
Megapixel	4 MP
Objective	Motorized
Focus	2.7-12 mm
Lighting	LED
Lighting distance	30 m
Microphone	Mic
Protection	IP67
Material	Plastic



Detailed

Camera	
Image Sensor	1/1.8" CMOS
Image Resolution	2688 × 1520
Electronic Shutter Speed	Auto/Manual 1/25 s-1/100,000 s
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	4 GB				
RAM	1 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	160.0 m (524.93 ft)	64.0 m (209.97 ft)	32.0 m (104.99 ft)	16.0 m (52.49 ft)

	-PW4D-Z3, DHI-ITC413- PW4D-IZ3)				
	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: 30 m (98.43 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.
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-30 m (26.25 ft-98.43 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 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
RS-485	2 (half duplex,Transparent,DHRS,Push Data through Serial Port)

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 10 vehicle types: Large Bus, Heavy Truck, Medium Truck, Sedan, Van, Light Truck, Medium Bus, SUV, MPV, Pickup
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 Speaker and Red/Blue Light Warning on < 17 W
Protection	IK10; IP67
Material	Aluminum alloy body+Plastic

Product Dimensions	395.0 mm × 120.8 mm × 127.8 mm (15.55" × 4.76" × 5.03") (L × W × H)
Packaging Dimensions	447.0 mm × 240.0 mm × 233.0 mm (17.60" × 9.45" × 9.17")
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