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System Overview

Using deep learning algorithms, Smart ANPR Camera can recognize vehicles, license plates, vehicle brands and vehicle colors. It can be used in scenarios that require vehicle detection and recognition. It also supports using IVS to detect events, and triggers sound and light alarms. The camera can perform various functions without being connected to other devices, which not only greatly improves the security of factories and compounds, but also simplifies the installation process. The camera is dustproof, waterproof, and tamper-proof, and is IP67 rated and IK10 rated.

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.

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.

High-level Protection

Resilient and versatile, the camera is uniquely designed with an illuminator, junction box and more integrated into its structure. It is IP67 rated and has low power consumption, making it suitable for harsh environments.

- High-performance CMOS image sensor and processor that supports continuously extracting metadata 24/7.
- Adopts intelligent deep learning algorithms and supports recognition of unlicensed vehicles and the type, brand and color of vehicles.
- Built-in signal port, data port, communication port and remote controllers assist in controlling external devices such as entry and exit barriers
- · Built-in LED for simplified installation and commissioning.
- All-in-one structure with junction box and bracket, and it is also low power consumption.
- IP67 and IK10 rated.
- Supports intrusion and loitering detection and triggers light and voice alarms when perimeter events occur to actively deter targets. Custom audios can also be imported and edited.
- · Easily adapts to scenarios through its motorized vari-focal lens.

Easy Installation

Ideal for scenarios where license plate recognition is needed, the camera is capable of capturing more than ten different types of traffic violations, and supports traffic information collection and event detection. It is suitable for road scenarios.

Multi-dimensional Data Sensing

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.

fechnica	l Specificati	on				Illuminator	
Camera						Illuminator Number	4
Image Sensor		1/1.8" CMOS			Illuminator On/Off Control	Auto, manual	
Image Resolution		2688 × 1520				Illuminator Type	DHI-ITC413-PW4D-IZ1, DHI-ITC413-PW4D-IZ3:IR (850 nm)
Electronic Shutter Speed		Auto/Manual 1/25s~1/10,000s					DHI-TC413-PW4D-Z1, DHI-TC413-PW4D-Z3:Dual Illuminators (730 nm IR/warm light)
Max. Detection Speed Min. Illumination		DHI-ITC413-PW4D-Z1, DHI-ITC413-PW4D-IZ1:80 km/h DHI-ITC413-PW4D-Z3, DHI-ITC413-PW4D-IZ3:120 km/h 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)				Illumination Distance	DHI-ITC413-PW4D-Z1, DHI-ITC413-PW4D-IZ1: ANPR: 10 m (32.81 f.) Video monitoring: 30 m (98.43 ft) DHI-ITC413-PW4D-Z3, DHI-ITC413-PW4D-IZ3: ANPR: 20 m (65.62 f.) Video monitoring: 60 m (196.85 ft)
		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)				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.
ROM		1 GB					
RAM		4 GB				Infrared Wavelength	DHI-ITC413-PW4D-IZ1, DHI-ITC413-PW4D-IZ3:850 nm DHI-ITC413-PW4D-Z1, DHI-ITC413-PW4D-Z3:730 nm
S/N Ratio		>56 dB				Video	
Scanning Sy	rstem	progressive s	canning				Main stream: 4M (2688 × 1520)/1080p (1920 ×
Lens		DHI-ITC413-PW4D-Z1, DHI-ITC413-PW4D-IZ1: 2.7 mm—12 mm			Z1:	Video Resolution	1080)/720p (1280 × 720) Sub stream: 720p (1280 × 720)/960H (960 × 576, 960 × 480)/D1 (704 × 575, 704 × 480)/CIF (352 × 288, 352 × 240)
Field of View		DHI-ITC413-PW4D-Z3, DHI-ITC413-PW4D-IZ3: 8 mm-32 mm 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)				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)
		D: 46.6° (W)—17.4° (T)				Video Compression	H.264H; H.264B; H.264M by default; H.265; MJPEG; H.264M
Focus Control		Auto, area focus, manual					H.264B: 2,179 kbps-13,074 kbps
Number of Lens Lens Type		1 Motorized Vari-focal				Video Bit Rate	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
Max. Aperture		DHI-ITC413-PW4D-Z1, DHI-ITC413-PW4D-IZ1:1.4 DHI-ITC413-PW4D-Z3, DHI-ITC413-PW4D-IZ3:1.6				Scene Self-adaptation (SSA)	Yes
Iris Control		DHI-ITC413-PW4D-Z1, DHI-ITC413-PW4D-IZ1:DC-Iris DHI-ITC413-PW4D-Z3, DHI-ITC413-PW4D-IZ3:P-Iris				Gain Control	Manual; Auto
	Lens	Detect	Observe	Recognize	Identify	Noise Reduction	3D NR
DORI Distance	W:					Region of Interest (RoI)	Yes, 3
	(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)	Image Tampering Prevention	Yes. Watermarks can be added to videos and images. The watermark can also be verified.
	T;					Bit Rate Control	CBR; VBR
	(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)	Function	
	W: (DHI-ITC413- PW4D-Z3,	160.0 m (524.93 ft)	64.0 m (209.97 ft)	32.0 m (104.99 ft)	16.0 m (52.49 ft)	Storage	Bult-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
	DHI-ITC413- PW4D-IZ3)	,				Restricted List/Trusted List	Allowlist: 110,000 Blocklist: 110,000
	T: (DHI-ITC413- PW4D-Z3,	406.9 m (1334.97 ft)	162.8 m (534.12 ft)	81.4 m (267.06 ft)	40.7 m (133.53 ft)	IVS	Intrusion detection, loitering detection, up to 4 areas can be set.
	DHI-ITC413- PW4D-IZ3)		,	,	,	Basic Event	Alarms for events of defocus, no storage card, storage card no space, storage card error, network

Sound and Light Alarm	Yes, blue & red indicator, and supports broadcasting custom audio.	Alarm Input	2, optocoupler input (wet node on-off value: 5 V)
Upload to FTP/Memory card, notify monitoring center, send e-mail, trigger alert output, snapshot and active		Alarm Output	2, relay output (2A 30 VDC/0.5A 125 VAC), which car connect to devices such as barriers
Aldi III Ellikoğe	deterrence	RS-485	2 (half duplex,Transparent,DHRS,Push Data through Serial Port)
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:	Reset Button	Yes
	8m-20 m (26.25 ft-65.62 ft)	Wiegand	1 channel, SHA-1 26 bit
	DHI-ITC413-PW4D-ZI, DHI-ITC413-PW4D-IZ1: 3 m-4 m (9.84 ft-13.12 ft)	Performance	
Detected Width	DHI-ITC413-PW4D-Z3, DHI-ITC413-PW4D-IZ3: 6 m=8 m (19.69 ft=26.25 ft)	Maximum Number of Passed Vehicles	10,000
Network		Max. Number of Connections	10
HTTP; Https; 802.1x; TCP; ARP; RTSP; RTP; UDP; RTCP; Network Protocol SMTP; FTP; DHCP; DNS; IPv4/v6; NTP; SFTP;DDNS; SNMP;		Intelligence	
	РЭРОЕ	Al Recognition	Recognizes vehicle types, vehicle signs, vehicle color, vehicle plate, plate, vehicle without plate.
API	Yes	Video Metadata	Displays the intelligent frame, plate and vehicle paths
SDK			Recognizes 147 vehicle logos.
onvoir (Profile S/Profile G/Profile T); CGI; ITSAPI; P2P Management Software DSS Pro; DSS Express; Cybercity; Smart PSS		Vehicle Color	Recognizes 12 colors: Grey, black, white, silver, blue, green, purple, red, crange, pink, brown, and yellow.
Security	Likername and nassword: MAC address: HTTPS: IFFF		Recognizes 9 vehicle types: Large Bus, Heavy Truck, Medium Truck, Sedan, Van, Light Truck, Medium Bus SUV, MPV, Pickup
Pug in: IE 9, 10, 11. Chrome 52 and earlier versions Frefox 42 and earlier versions No plug in: Chrome 92 and later versions			Baseline support: GCC (U.A.E., Saudi Arabia, Morocco, Oman, Iraq, Egyl 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
Image			Lithuania, Latvia, Sweden, Estonia, Portugal, Greece, Slovenia, Luxembourg, Palestine, Lebanon, Ireland,
Image Encoding Format JPEG		Country and Region	Finland, Norway, Croatia, North Macedonia) Russian-speaking regions (Russia, Ukraine, Kyrgyzsta
Image Setting	Brightness; contrast; saturation; gamma; sharpness; gain; white balance	Supported by ANPR	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, Phlippines, Vietnam, Laos, Cambo myanmar, Thailand, Malaysia, Singapore, Indonesia, Bangladesh, India, Pakistan, Curacao, Mexico, Guatemala, Costa Rica, Australia, New Zealand, Tuni Algeria, Ethiopia, Tanzania, Uganda, Equatorial Guin
Day/Night	IF, filter, support three modes: color/B/W/auto		
WDR	140 dB		
HLC	Yes		
BLC	Yes		
White Balance	/hite Balance Auto; Regional Custom; Manual; Outdoor; Natural; Street Lamp		Japan, Zambia, Mozambique, South Africa, Mauritius In the recommended installation and lighting conditi
Digital Detail Enhancement (DDE)	Yas	Capture Rate	the vehicle capture rate ≥ 99%
Supports overlay of time; address (position of channel), lane (number/direction), plate (number and color), vehicle (speed, color, type)		Recognition Rate	In the recommended installation and lighting conditi the recognition rate for positive and departing vehicl 96%; the recognition rate for European vehicle plate ≥ 98%
Audio	Control of the second second of the second s	General	
Audio Port	Yas	Remote control	Yes
Built-in MIC	Yes; Pick-up distance: 3 m (9.84 ft), Sampling Rate: 48 k.	Communication Band	433 MHz; 868 MHz
Built-in Speaker	Yes; Power: 2 W	Remote Control Distance	15 m (49.21 ft) (In an open, undisturbed environmen
Port		Power Supply	12 VDC, 2 A and POE:802.3at, Type 2, Class 4,(44V to 57V), 0.455A to 0.351A,max.20W
Audio Output	1 channel (RCA port)		Power consumption in different conditions:
Network Port	RJ-45 (10/100/1000 self-adaptive Ethernet Port)	Power Consumption	No lighting < 6 W Lighting <12 W

Protection	IK10; IP67
Material	Aluminum alloy body+Plastic
Product Dimensions	396.0 mm \times 120.8 mm \times 127.8 mm (15.59" \times 4.76" \times 5.03") (L \times W \times 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

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

Accessories

Optional:



PFA150 Pole Mount

Ceiling Mount	Wall Mount	Pole Mount

Dimensions (mm [inch])

