

4MP Starlight+ Dual Illuminators License Plate Recognition Camera ANPR Camera with IR LEDs and Warm Light LEDs



System Overview

The ITC413-PW4D-Z1 is a license plate recognition camera with a recording resolution of 2688 x 1520 (4MP) at 30 frames per second with a 1/1.8-in. CMOS sensor. The camera includes a 2.7 mm to 12 mm vari-focal lens that lets the installer adjust the zoom angle of the picture, providing a 92° to 46.1° horizontal angle of view. The camera can capture and recognize license plates of vehicles traveling up to 80 kph (50 mph). The camera can be mounted between 3 m and 8 m (9.84 ft and 26.25 ft) from where the vehicles will be traveling. The ITC413-PW4D-Z1 coupled with a Dahua NVR or DSS Video Management System offers a complete traffic management Active Alarm and parking solution.

Functions

License Plate Recognition

The License Plate Recogniton camera automatcally captures vehicle license plate images and recognizes license plate numbers and letters. During playback, an operator can perform a license plate search by Time and Date to view thumbnail images of all plates captured during the specified time period or can enter a license plate number to search for vehicles recorded with that plate. License plate recognition technology offers effective entrance/exit management, traffic security, and parking lot monitoring.

High Efficiency Video Coding (H.265)

The H.265 (ITU-T VCEG) video compression standard offers double the data compression ratio at the same level of video quality, or substantially improved video quality at the same bit rate, as compared to older video compression technologies. H.265 offers such impressive compression by expanding the pattern comparison and difference-coding, improving motion vector prediction and motion region merging, and incorporating an additional filtering step called sample-adaptive offset filtering.

- 1/1.8-in 4MP CMOS Sensor
- License Plate Recognition Distance Distance up to 8 m (26.25 ft)
- Capture and Recognize License Plates from Vehicles Traveling up to 80 kph (50 mph)
- Starlight+ Technology for Low-light Applications
- H.265 and H.264 Dual Codec
- 4MP (2688 x 1520) at 30 fps Maximum Resolution
- 2.7 mm to 12 mm Motorized Vari-focal Lens
- Supports Signal, Data, and Communication Interfaces and Connection to External Devices
- Dual Illuminators: 730 nm IR LED and warm LED lights
- Maximum Illumination Distance for ANPR 10 m (32.81 ft)
- Maximum Illumination Distance for Video Monitoring 30 m (98.43 ft)
- Supports Intrusion and Loitering Detection
- Built-in Microphone and Built-in Speaker
- · Active Alarm with Red/Blue Lights and Siren or Voice Prompt
- IP67 Ingress Protection, IK10 Vandal Protection
- Five-year Warranty*

Active Alarm

The camera features active alarm functionality to respond automatically to a triggered alarm. The configurable automatic responses include activation of the red/blue lights and the broadcast of a built-in message or siren.

Starlight+ Technology

For challenging low-light applications, Dahua's Starlight Ultra-low light Technology offers best-in-class light sensitivity, capturing details in low light applications. The camera uses a set of optical features to balance light throughout the scene, resulting in clear images in dark environments.

Cybersecurity

Dahua network cameras are equipped with a series of key cybersecurity technologies including security authentication and authorization, access control, trusted protection, encrypted transmission, and encrypted storage. These technologies improve the camera's ability to prevent malicious access and to protect data.

Environmental

The camera complies with the IK10 Vandal Resistance impact rating making it capable of withstanding the equivalent of 5 kg (11.02 lbs) of force dropped from a height of 40 cm (15.75 in.). Subjected to rigorous dust and water immersion tests and certified to the IP67 Ingress Protection rating makes it suitable for demanding outdoor applications.



License Plate Recognition | ITC413-PW4D-Z1

Technical Specification

Camera						
Image Sensor		1/1.8-in. 4M	1/1.8-in. 4MP CMOS			
Image Resolut	ion	2688 × 1520	2688 × 1520			
Electronic Shu	itter Speed	1/25 s to 1/1	1/25 s to 1/100,000 s			
Maximum De	tection Speed	80 kph (50 n	80 kph (50 mph)			
RAM/ROM		1 GB/4 GB	1 GB/4 GB			
S/N Ratio		> 56 dB				
Scanning Syst	em	Progressive				
	Color (30 IRE)	0.001 lux at	F1.4			
Minimum Illumination	B/W (30 IRE)	0.0002 lux at F1.4				
	Illuminator On	0 lux	0 lux			
Illuminator Number		Four (4)	Four (4)			
Illuminator On/Off Control		Auto, Manua	Auto, Manual			
Illuminator Type		730 nm IR, V	730 nm IR, Warm Light			
Illumination	ANPR	10 m (32.81	10 m (32.81 ft)			
Distance	Video Monitoring	30 m (98.43	ft)			
Infrared Wave	length	730 nm				
Capture Dista	nce	3 m to 8 m (9.84 ft to 26.25 ft)				
Detection Width		3 m to 4 m (9.84 ft to 13.12 ft)				
Maximum Number of Passed Vehicles		10,000				
Maximum Nu Connections	mber of	10	10			
Lens						
Focal Length		2.7 mm to 12 mm				
	Horizontal	92.0° to 46.1	L°			
Field of View	Vertical	49.0° to 26.0°				
VICW	Diagonal	109.0° to 52.8°				
Focus Control		Auto, Area Focus, Manual				
Number of Le	Number of Lens		One (1)			
Lens Type		Motorized Vari-focal				
Maximum Aperture		F1.4				
Iris Control		DC-Iris				
	Lens	Detect	Observe	Recognize	Identify	
DORI ¹ Distance	W:	60.4 m (198.16 ft)	24.2 m (79.40 ft)	12.1 m (39.70 ft)	6.0 m (19.68 ft)	
5.000100	T:	128.7 m (422.24 ft)	51.5 m (168.96 ft)	25.7 m (84.32 ft)	12.9 m (42.32 ft)	

Video

Streaming Capability		Two (2) Streams	
Video Resolution	Main Stream	4MP (2688 × 1520), 1080p (1920 × 1080), 720p (1280 × 720)	
	Sub Stream	720p (1280 × 720), 960H (960 × 480), D1 (704 × 480), CIF (352× 240)	
Frame Rate	Main Stream	2688 × 1520/1920 × 1080/1280 × 720 at 30 fps	
	Sub Stream	1280 × 720/960 × 480/704 × 480/352 × 240 at 30 fps	
Video Compression		H.264H, H.264B, H.264M, H.265, MJPEG	
	H.264B	2,179 kbps to 13,074 kbps	
	H.264M	2,179 kbps to 13,074 kbps	
Video Bit Rate	H.264H	2,179 kbps to 13,074 kbps	
	H.265	2,179 kbps to 13,074 kbps	
	MJPEG	6,537 kbps to 39,223 kbps	
Scene Self-adaptation (SSA)		Supported	
Gain Control		Manual, Auto	
Noise Reduction		3DNR	
Region of Interest		Three (3)	
Image Tampering Prevention		Supported (Verified watermarks can be added to video.)	

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I 2 VDC, 2 A and POE:802.3at, Type 2, Class 4, (44V to Power Supply Power Consumption No Lightning < 6 W	Reset Button		One (1)	
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ConsumptionLightningLightning:<12 WMaximum<17 W (Speaker + Red/Blue Warning Lights On)	Power	No Lightning	< 6 W	
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Gross Weight3.2 kg (7.05 lb)Construction	•			
Construction	Net Weight		2.3 kg (5.07 lb)	
	Gross Weight		3.2 kg (7.05 lb)	
Safety IEC 62368-1:2014 (Second Edition)	Construction			
	Safety		IEC 62368-1:2014 (Second Edition)	

License Plate Recognition | ITC413-PW4D-Z1

Electromagnetic Compatability (EMC)	47 CFR FCC Part 15 SubpartB, Class B EN 55032:2015, Class B EN61000-3-2:2014 EN 61000-3-3:2013 EN 55024:2010+A1:2015 EN55035:2017 EN 50130-4:2011+A1:2014	
Analytics+ Functions		
Loitering Detection	Target is in motion inside a defined area longer than a specified amount of time.	
Intelligent Video System Functions		
IVS triggers an alarm and takes a defined action for the following events:		
Standard Features	 Tampering with the camera. Error writing to an onboard Micro SD card. Error sending or receiving data over the network. Unauthorized access to the camera. IP Address Conflict 	
Premium Features		
Intrusion	A target enters or exits a defined perimeter.	

Ordering Information

Туре	Part Number	Description
ANPR Camera	ITC413-PW4D-Z1	4MP Smart ANPR Camera (Dual Illuminators, 2.7 mm to 12 mm)
Accessories	PFA150	Pole Mount
(Optional)	DH-PFA143	Outdoor Security Box

Accessories

Optional:



PFA150 Pole Mount



Outdoor Security Box

Ceiling Mount Wall Mount Pole Mount Image: Ceiling Mount Image: Ceiling Mount Image: Ceiling Mount

Dimensions

mm [in.]

