

DHI-ITC439-PW1H-Z1050

4MP Outdoor Parking Space Detector



System Overview

With its high-performance CMOS image sensor and processor, 4MP Outdoor Parking Space Detector generates highly accurate and reliable statistics 24/7 in all-weather conditions. Through its deep learning algorithms, it is capable of monitoring up to 50 parking spaces and offers multiple monitoring modes including area monitoring, parking space monitoring, and plate recognition.

Functions

High Performance

Leveraging its deep learning algorithms, it can monitor up to 50 parking spaces and offers multiple monitoring modes including area monitoring, parking space monitoring, and plate recognition.

High-level Protection

A camera, illuminator and more were brought together into one powerful detector that has low power consumption. It is also IP67 rated, making it highly suitable for a variety of harsh environments.

Wide Dynamic Range

The camera produces vivid images, even in high-contrast lighting conditions, by using industry-leading wide dynamic range (WDR) technology.

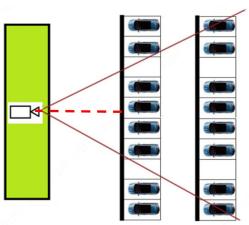
Easy Installation

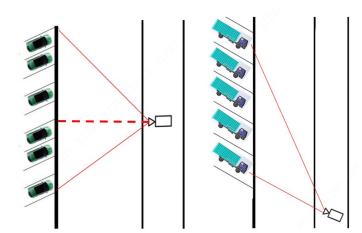
Designed with a built-in LED illuminator and motorized vari-focal lens, the camera is easy to install and commission.

- Adopts high-performance CMOS image sensor and processor for in-depth extraction and analysis of vehicle information 24/7.
- Adopts deep learning algorithms and supports multiple monitoring modes including area monitoring, parking space monitoring, and plate recognition.
- Monitors up to 50 parking spaces.
- Offers a variety of ports, such as signal, data and communication, and can connect to external devices.
- · Built-in LED illuminator that makes installation easy.
- Motorized vari-focal lens that is easy to install and commission.
- A camera, illuminator and more were combined into one powerful detector that has low power consumption and is IP67 rated.
- Supports 12 VDC, 24 VAC and PoE+.

Scene

It is suitable for expressway service areas, scenic spots, large outdoor parking lots, large buildings in compounds, high-speed railway stations, and more.





Parking Spot Detector | DHI-ITC439-PW1H-Z1050

Technical Specification

Basic		
Illuminator Number	6 × white light (adjustable brightness)	
Image Sensor	1/1.8" CMOS	
Image Resolution	2688 (H) \times 1520 (V) (OSD black background is not calculated in the pixels)	
Video Resolution	Main stream: 4M (2688 × 1520); UXGA (1600 x 1200); 1080p (1920 × 1080); 720p (1280 × 720) Sub stream: 720p (1280 × 720); D1 (704 × 576, 704 × 480); CIF (352 × 288, 352 × 240)	
Video Frame Rate	PAL: Main stream (2688 × 1520@25 fps, 1600 × 1200@25 fps, 1920 × 1080@25 fps, 1280 × 720@25 fps); sub stream: (1280 × 720@25 fps, 704 × 576@25 fps, 352 × 288@25 fps) NTSC: Main stream (2688 × 1520@30 fps, 1600 × 1200@30 fps, 1920 × 1080@30 fps, 1280 × 720@30 fps); sub stream: (1280 × 720@30 fps, 704 × 576@30 fps, 352 × 288@30 fps)	
Bit Rate	H.264M: 32 kbps–32768 kbps H.264H: 32 kbps–32768 kbps H.265: 32 kbps–32768 kbps MJPEG: 512 kbps–65536 kbps	
Video Compression	H.264M; H.264H; H.265; MJPEG	
Picture Encoding Format	JPEG	
Noise Reduction	3D NR	
White Balance	Auto; Natural; Street lamp; Outdoor; Manual; Regional custom	
Electronic Shutter Speed	1/25–1/10000, auto or manual	
WDR	96 db	
Edge Enhancement	Yes	
Exposure Mode	Auto; Manual (select from shutter values or customize shutter range)	
Exposure Mode Iris Control		
	customize shutter range)	
Iris Control	customize shutter range)	
Iris Control Performance	customize shutter range) Auto iris (W: 1.33–T: 1.34)	
Iris Control Performance Shutter	customize shutter range) Auto iris (W: 1.33–T: 1.34) Single shutter 1 × built-in TF card slot. The following cards are supported: Kingston 16 GB, 32 GB, 64 GB, and 128 GB; Dahua 16 GB, 32 GB, 64 GB, and 128 GB; SanDisk 16 GB,	
Iris Control Performance Shutter Storage Image Tampering	customize shutter range) Auto iris (W: 1.33–T: 1.34) Single shutter 1 × built-in TF card slot. The following cards are supported: Kingston 16 GB, 32 GB, 64 GB, and 128 GB; Dahua 16 GB, 32 GB, 64 GB, and 128 GB; SanDisk 16 GB, 32 GB, 64 GB, and 128 GB.	
Iris Control Performance Shutter Storage Image Tampering Prevention	customize shutter range) Auto iris (W: 1.33–T: 1.34) Single shutter 1 × built-in TF card slot. The following cards are supported: Kingston 16 GB, 32 GB, 64 GB, and 128 GB; Dahua 16 GB, 32 GB, 64 GB, and 128 GB; SanDisk 16 GB, 32 GB, 64 GB, and 128 GB. Yes. Verifies watermarks in videos and images H: 40.55° (W)–9.33° (T) V: 22.7° (W)–5.3° (T)	
Iris Control Performance Shutter Storage Image Tampering Prevention Field of View	customize shutter range) Auto iris (W: 1.33–T: 1.34) Single shutter 1 × built-in TF card slot. The following cards are supported: Kingston 16 GB, 32 GB, 64 GB, and 128 GB; Dahua 16 GB, 32 GB, 64 GB, and 128 GB; SanDisk 16 GB, 32 GB, 64 GB, and 128 GB. Yes. Verifies watermarks in videos and images H: 40.55° (W)–9.33° (T) V: 22.7° (W)–5.3° (T) D: 46.6° (W)–10.63° (T)	
Iris Control Performance Shutter Storage Image Tampering Prevention Field of View Illumination Distance	customize shutter range) Auto iris (W: 1.33–T: 1.34) Single shutter 1 × built-in TF card slot. The following cards are supported: Kingston 16 GB, 32 GB, 64 GB, and 128 GB; Dahua 16 GB, 32 GB, 64 GB, and 128 GB; SanDisk 16 GB, 32 GB, 64 GB, and 128 GB. Yes. Verifies watermarks in videos and images H: 40.55° (W)–9.33° (T) V: 22.7° (W)–5.3° (T) D: 46.6° (W)–10.63° (T) 30 m (98.43 ft)	
Iris Control Performance Shutter Storage Image Tampering Prevention Field of View Illumination Distance Min. Illumination	customize shutter range) Auto iris (W: 1.33–T: 1.34) Single shutter 1 × built-in TF card slot. The following cards are supported: Kingston 16 GB, 32 GB, 64 GB, and 128 GB; Dahua 16 GB, 32 GB, 64 GB, and 128 GB; SanDisk 16 GB, 32 GB, 64 GB, and 128 GB. Yes. Verifies watermarks in videos and images H: 40.55° (W)–9.33° (T) V: 22.7° (W)–5.3° (T) D: 46.6° (W)–10.63° (T) 30 m (98.43 ft) 0.002 lx (built-in illuminator on) Storage full, storage error, no storage card, network	
Iris Control Performance Shutter Shutter Image Tampering Prevention Field of View Illumination Distance Min. Illumination Alarm Event	customize shutter range) Auto iris (W: 1.33–T: 1.34) Single shutter 1 × built-in TF card slot. The following cards are supported: Kingston 16 GB, 32 GB, 64 GB, and 128 GB; Dahua 16 GB, 32 GB, 64 GB, and 128 GB; SanDisk 16 GB, 32 GB, 64 GB, and 128 GB. Yes. Verifies watermarks in videos and images H: 40.55° (W)–9.33° (T) V: 22.7° (W)–5.3° (T) D: 46.6° (W)–10.63° (T) 30 m (98.43 ft) 0.002 lx (built-in illuminator on) Storage full, storage error, no storage card, network disconnection, IP conflict, and illegal access. Authorized username and password, MAC address binding, HTTPS encryption, IEEE 802.1x, and network	

Intelligence	
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Intelligence		
Vehicle Detection	Vehicle capture rate ≥95%	
Vehicle Recognition	Supports licensed and unlicensed vehicle recognition.	
Illegal Parking Detection	Yes	
Available Space Detection	Yes	
Number of Available Spaces	Max. 50 spaces	
Counting Mode	Area monitoring, parking space monitoring, and plate recognition mode.	
Parking Space Attributes	The attributes of large and small spaces can be configured.	
Port		
Lens Mount	Module	
Analog Output	1	
Network	1 × RJ-45 Ethernet port, 100/1000 M network transmission	
RS-485	2	
RS-232	1	
Alarm Input	3, optocoupler input (on-off input)	
Alarm Output	3 (1 for relay, and 2 for optocoupler), used to link the barrier.	
Audio Input	1-channel RCA port	
Audio Output	1-channel RCA port	
General		
Power Supply	12 VDC, 24 VAC, POE+	
Power Consumption	<20 W	
Operating Temperature	-30 °C to +65 °C (-22 °F to +149 °F)	
Operating Humidity	10% (RH)–90% (RH) (no condensation)	
Casing	Metal + plastic	
Protection Grade	IP67	
Dimensions	370.5 mm × 124.7 mm × 105.7 mm (14.59" × 4.91" × 4.16") (L × W × H)	
Net Weight	1.7 kg (3.75 lb)	
Gross Weight	2.3 kg (5.07 lb)	
Installation	Universal mounting bracket	
Lens	Included, 11 mm-46.5 mm	

Ordering Information

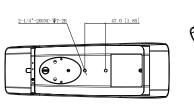
Туре	Part Number	Description
4MP Camera	DHI-ITC439- PW1H-Z1050	4MP Outdoor Parking Space Detector
Accessories	8018	3-dimensional universal mounting bracket



Optional:

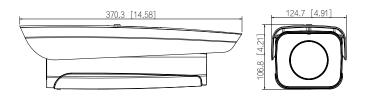


8018 3-dimensional universal mounting bracket





Dimensions (mm[inch])



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