

DHI-ITC439-PW1H-Z

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.

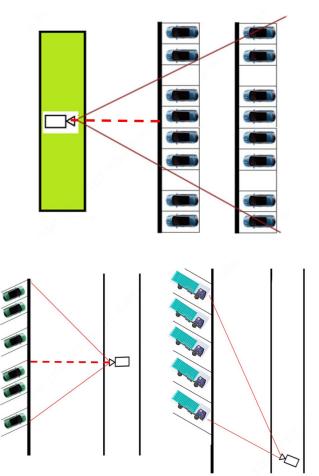
Easy Installation

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-Z

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 × 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)	
Iris Control	Auto iris (W: 1.4–T: 2.15)	
Performance		
Shutter	Single shutter	
Storage	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.	
Image Tampering Prevention	Yes. Verifies watermarks in videos and images	
Field of View	H: 114.6° (W)–48.3° (T) V: 59.0° (W)–27.1° (T) D: 141.6° (W)–55.5° (T)	
Illumination Distance	12 m (39.37 ft)	
Illumination Distance Min. Illumination	12 m (39.37 ft) 0.002 lx (built-in illuminator on)	
Min. Illumination	0.002 lx (built-in illuminator on) Storage full, storage error, no storage card, network	
Min. Illumination Alarm Event	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	
Min. Illumination Alarm Event Security	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 access control Time, address, device SN, week, space statistics, anti-	

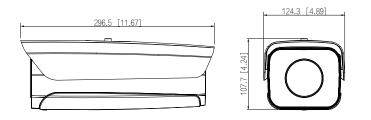
Vehicle DetectionVehicle capture rate 295%Vehicle RecognitionSupports licensed and unlicensed vehicle recognition.Smart TrackFrameDisplays the trajectory of the license plate and vehicle.Illegal Parking DetectionYesAvailable Space DetectionMax. 50 spacesNumber of AvailableMax. 50 spacesSpacesThe attributes of large and small spaces can be configured.Parking Space AttributesThe attributes of large and small spaces can be configured.PortThe Attributes of large and small spaces can be configured.Network1Natlog Output1Network1Alarm Input3. optocoupler input (on-off input)Alarm Output3. optocoupler input (on-off input)Aldio Input1-channel RCA portAudio Unput1-channel RCA portPower Supply1.2 VDC, 24 VAC, POE+Power Consumption-30.°Ct o+65 °C (-22 °F to +149 °F)Operating Temperature30% (to +)-90% (RH) (no condensation)CasingMetal + plasticProtection Grade1F67Dimensions3.0 (to (x × H))Net Weight1.7 kg (3.75 lb)InstallationUniversal munuting bracketLensUniversal munuting bracket	Intelligence		
ArrowDisplays the trajectory of the license plate and vehicle.Illegal Parking DetectionYesAvailable Space DetectionWas. 50 spacesNumber of Available SpacesMax. 50 spacesCounting ModeArea monitoring, parking space monitoring, and plate recognition mode.Parking Space AttributesThe attributes of large and small spaces can be configured.PortLens Mount016Analog Output1Network1RS-4852RS-2321Adrin Input3, optocoupler input (on-off input)Adrio Input1:for relay, and 2 for optocoupler), used to link the barrier.Audio Output1:for relay, and 2 for optocoupler), used to link the barrier.Audio Output1:for relay, and 2 for optocoupler), used to link the barrier.Power Supply12 VDC, 24 VAC, POE+Power Consumption<20W	Vehicle Detection	Vehicle capture rate ≥95%	
Interact of the second secon	Vehicle Recognition	Supports licensed and unlicensed vehicle recognition.	
Available Space DetectionYesNumber of Available SpacesMax. 50 spacesCounting ModeArea monitoring, parking space monitoring, and plate recognition mode.Parking Space AttributesThe attributes of large and small spaces can be configured.PortLens MountФ16Analog Output1Network1 x RJ-45 Ethernet port, 100/1000 M network transmissionRS-4852RS-2321Alarm Nuput3, optocoupler input (on-off input)Addio Output1-channel RCA portAudio Output1-channel RCA portAudio Output12 VDC, 24 VAC, POE+Power Supply12 VDC, 24 VAC, POE+Power Consumption<20 W	Smart TrackFrame	Displays the trajectory of the license plate and vehicle.	
Number of Available SpacesNax. 50 spacesCounting ModeArea monitoring, parking space monitoring, and plate recognition mode.Parking Space AttributesThe attributes of large and small spaces can be configured.PortLens Mount016Analog Output1Network1 * RJ-45 Ethernet port, 100/1000 M network transmissionRS-4852RS-2321Alarm Input3, optocoupler input (on-off input)Audio Input1-channel RCA portAudio Output1-channel RCA portPower Supply12 VDC, 24 VAC, POE+Power Consumption<20 W	Illegal Parking Detection	Yes	
SpacesMax. 50 spacesCounting ModeArea monitoring, parking space monitoring, and plate recognition mode.Parking Space AttributesThe attributes of large and small spaces can be configured.PortLens Mount016Analog Output1Network1 × RJ-45 Ethernet port, 100/1000 M network transmissionRS-4852RS-2321Alarm Input3, optocoupler input (on-off input)Audio Input1-channel RCA portAudio Output1-channel RCA portGeneral-couver ConsumptionPower Supply12 VDC, 24 VAC, POE+Power Consumption-30 °C to +65 °C (-22 °F to +149 °F)Operating Temperature00% (RH) (no condensation)Operating Humidity10% (RH)-90% (RH) (no condensation)Protection GradePF67Dimensions296.5 mm x 124.3 mm x 107.7 mm (11.67" x 4.89" x 4.24") (L × W × H)InstallationUniversal mounting bracket	Available Space Detection	Yes	
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Dimensions 4.24") (L × W × H) Net Weight 1.7 kg (3.75 lb) Installation Universal mounting bracket	Protection Grade	IP67	
Installation Universal mounting bracket	Dimensions		
	Net Weight	1.7 kg (3.75 lb)	
Lens Included, 4.38 mm–9.33 mm	Installation	Universal mounting bracket	
	Lens	Included, 4.38 mm–9.33 mm	

Ordering Information

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

Parking Spot Detector | DHI-ITC439-PW1H-Z

Dimensions (mm[inch])



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