DHI-ITC218-RC3A-LF4

Dahua 2MP ANPR pillar

Series Overview

Harnessing advanced technologies, this device has a 2MP starlight camera, 7-color indicator and illuminator embedded in its stable structure. It detects and takes snapshots of vehicles, recognizes license plates and their numbers, determines whether parking spaces are occupied, and controls its indicator light.

Functions

Intelligence
Leverages the high-performance AI processor to recognize multiple vehicle attributes such as color, logo and size, and license plate attributes such as the plate number, color and type.

Intelligent Illumination
Intelligently controlled by software, the illuminator can accurately detect the ambient brightness and parking space status, automatically turns on and off, and adjusts its brightness accordingly to reduce light pollution and power consumption.

Intelligent Defogging
Suitable for use in all weather conditions, the camera can automatically control the ITO glass to defog based on the temperature and humidity inside the cover, effectively preventing the glass from icing and fogging.

Image
Designed with the advanced starlight imaging and WDR technologies, it is high adaptive to multiple light conditions, such as front light, back light and darkness.

- Integrated with a 2MP starlight camera, 7-color indicator and illuminator.
- Vehicle detection and ANPR technologies that allow the device to be triggered to take snapshots, recognize license plates, and control the parking space indicator light.
- Detects video tampering, unlicensed vehicles and non-motor vehicles.
- Detects whether the parking space is available or not, and detects when vehicles are parked in the opposite direction or parked across multiple spaces.
- Supports a wide range of voltages from 9 VDC to 36 VDC for power supply.
- For network cascading, up to 20 devices can be comfortably cascaded. The network cable can also be up to 100 meters.

Scene

Ideal for use to detect vertical and inclined parking spaces on the roadside.

Technical Specification

Basic

Image Sensor	1/2.8" CMOS
Max.Detection Spot	1
Indicator Light	1×, 7 customizable colors (red, yellow, blue, green, cyan, white, and pink)
Image Resolution	1920 (H) × 1080 (V) (OSD black background is not calculated in the pixels)
Video Resolution	1920 (H) × 1080 (V)
Noise Reduction	3D NR
WDR	100 dB
White Balance	Auto; Indoor; Outdoor; Regional Custom; Natural; Street Lamp
Video Compression	H.265;H.264B;H.264M;H.264H;MJPEG
Image Encoding Format	JPEG
Video Bit Rate	H.264: 1106 kbps–8847 kbps H.265: 1106 kbps–8847kbps MJPEG: 3318 kbps–26542 kbps
Video Frame Rate	Main stream: 1920 × 1080@25fps; 2560 × 720@25fps Sub stream: 1408 × 576@25fps
Edge Enhancement	Yes
Exposure Mode	Auto; Manual (Select from shutter values or customize shutter range)
Vehicle Speed	0 km/h–30 km/h
Field of View	4 mm: Single lens: H: 87.5° V: 44.4° D: 104.9°

General

Electronic Shutter Speed	Auto/Manual 1/25 s–1/100,000 s
Power Supply	24 VDC, wide voltage between 9–36 VDC
Power Consumption	<10 W
Operating Temperature	−30 °C to +65 °C (−22 °F to +149 °F)
Operating Humidity	10%–95% (RH), non-condensing
Protection	IP54
Product Dimensions	152.1 mm × 135.6 mm × 933.0 mm (5.99" × 5.34" × 36.73") (L × W × H)
Packaging Dimensions	720.0 mm × 355.0 mm × 247.0 mm (28.35" × 13.98" × 9.72")
Net Weight	4.4 kg (9.70 lb)
Gross Weight	6.4 kg (14.11 lb)
Installation	Bracket mount
Lens	Included
Lens Type	Fixed-focal
Focal Length	4 mm

Function

Security	Authorized username and password, MAC address binding, HTTPS encryption, IEEE 802.1x, and network access control

Shutter Mode	Single shutter
OSD Overlay	Time, date, address, the type, color and number of the plate, vehicle color, parking space status, alarm type and more.
Alarm Event	Vehicles parked in the opposite direction, video tampering, unlicensed vehicle, vehicles parked across multiple spaces and non-motor vehicles parked in the parking spaces of motor vehicles.
Automatic Network Replenishment (ANR)	Yes
Auto Registration	Yes
Image Tampering Prevention	Watermark and verification are available for videos and images

Intelligence

Parking Spot Status Detection	Yes; the indicator light color is customizable.
Parking Direction Detection	Recognizes the front and back of the vehicle, and detects when vehicles are parked in the opposite direction.
Illegal Parking Detection	Detects when vehicles are parked across multiple spaces.
Non-motor Vehicle Detection	Detects when non-motor vehicles are parked in the parking spaces of motor vehicles.
Capture Triggered by Unlicensed Vehicle	Takes snapshots of unlicensed vehicles.

Port

RS-485	1
I/O	1
Alarm Input	1
Network Port	2, RJ-45 Ethernet port, 100 M network transmission

Ordering Information

Type	Part Number	Description
ANPR pillar	DHI-ITC218-RC3A-LF4	Dahua 2MP ANPR pillar

Installation

mm[inch]

- Camera body
- M6 Hex socket step screw
- Connecting window cover
- Wiring window
- M4 Cross recessed combination screws
- M8 Combination screws

Dimensions (mm[inch])

mm[inch]