DH-IPC-EB81242-PD

Parking Space Detection Fisheye WizMind Network Camera

WizMind

- Built-in GPU chip and deep learning algorithm, which can improve the detection accuracy.
- Support up to 12 parking space status detection.
- 360° panoramic view without dead angles in its monitoring range, making it cost-effective.
- Outputs max. 3008 × 3000@20 fps.
- 7 indicator colors that can be customized to display the status of parking spaces.
- H.265 codec, high compression rate, ultra-low bit rate.
- 3D NR, HLC, BLC, digital watermarking, applicable to various monitoring scenes.
- DWDR, ROI, SMART H.264 +/H.265+, flexible coding, applicable to various bandwidth and storage environments.
- Alarm: 2 in, 2 out; audio: 1 in, 1 out; 485; BNC; supports max. 256 G Micro SD card.
- 12 VDC/PoE power supply, 12 VDC power output, and max. current 165 mA, easy for installation.
- IP67 protection.

Parking Space Detection	Fisheye VR	IP67	WDR	Smart Codec	Configurable Default Light Color

Series Overview

With fisheye lens, Dahua Fisheye series camera can realize 360° surveillance, and it is widely applied in various scenes such as airports, shopping centers, banks and hotels.

Functions

Parking Space Detection

The carema has built-in high performance GPU chips and deep learning algorithms. It also continuously learns through a large number of samples allowing it to detect the usage status of parking spaces in each area of the image.

Fisheye VR

With intelligent algorithm, Dahua Fisheye VR technology provides interactive 3-dimensional dynamic view through fisheye image. Dahua fisheye VR supports various interactive modes, such as original, bowl, cylinder and asteroid, providing more interactive experience.

WDR

With advanced Wide Dynamic Range (WDR) technology, Dahua network camera provides clear details in the environment of strong brightness contrast. The bright and dark area can get clear video even in high brightness environment or with backlight shadow.

Protection (IP67, Wide Voltage)

IP67: The camera passes a series of strict test on dust and soak. It has dust-proof function, and the enclosure can works normal after soaking in 1 m deep water for 30 minutes.

Wide voltage: The camera allows ±30% (for some power supplies) input voltage tolerance (wide voltage range), and it is widely applied to outdoor environment with instable voltage.

Cyber Security

Dahua network cameras employ a series of security technologies, including security authentication and authorization, access control protocols, trusted protection, encrypted transmission and encrypted storage. These technologies improve the camera's defense against external cyber threats and prevent malicious programs from compromising the device.

Scene

It is suitable for indoor or semi-indoor parking space of residential communities, shopping malls, banks, airports, high-speed railways.

Technical Specification

Camera

Image Sensor	1/1.7" CMOS
Max. Resolution	3008 (H) × 3000 (V)
ROM	4 GB
RAM	2 GB
Scanning System	Progressive
Electronic Shutter Speed	Auto/Manual 1/3 s–1/100,000 s

Min. Illumination	0.01 lux (Color)
S/N Ratio	> 56 dB

Lens

Lens Type	Fixed-focal
Lens Mount	M12
Focal Length	1.85 mm
Max. Aperture	F2.0
Field of View	Horizontal: 180°; Vertical: 180°; Diagonal: 185°
Iris Control	Fixed
Close Focus Distance	0.4 m (1.31 ft)

DORI Distance	Detect	Observe	Recognize	Identify
	40.0 m (131.23 ft)	16.0 m (52.49 ft)	8.0 m (26.2 ft)	4.0 m (13.12 ft)

Professional, intelligent

Parking Space Management (Fisheye)	Supports the mode of 12 parking spaces and 6 parking spaces

Video

Video Compression	H.265; H.264; H.264H; MJPEG (Only supported by the sub stream)
Smart Codec	Smart H.265+; Smart H.264+
Video Frame Rate	Main stream: 2432 × 2432@(1–20 fps) sub stream: 704 × 576@(1–20 fps)/704×480 @(1–20 fps) third stream: 3008 × 3000@(1–20 fps)
Stream Capability	3 streams
Resolution	3008 × 3000; 2432 × 2432; 2304 × 2304; 2144 × 2144; 1536 × 1536; 1.3M (1280 × 960); D1 (704 × 576/704 × 480); CIF (352 × 288/352 × 240)
Bit Rate Control	CBR/VBR
Video Bit Rate	H264: 8 kbps–16384 kbps H265: 8 kbps–16384 kbps
Day/Night	Auto(ICR)/Color/B/W
BLC	Yes
HLC	Yes
WDR	DWDR
White Balance	Auto; natural; street lamp; outdoor; manual; regional custom
Gain Control	Auto
Noise Reduction	3D NR
Motion Detection	OFF/ON (4 areas, rectangular)
Region of Interest (RoI)	Yes (4 areas)
Privacy Masking	4 areas

Alarm

Alarm Event	No SD card; SD card full; SD card durability warning; SD card error; network disconnection; IP conflict; illegal access; motion detection; video tampering; scene changing; audio detection; voltage detection; external alarm; security exception; (parking space) occupied; (parking space) available

Network

Network Port	RJ-45 (10/100/1000 Base-T)
SDK and API	Yes
Cyber Security	Video encryption; Firmware encryption; Configuration encryption; Digest; WSSE; Account lockout; Security logs; IP/MAC filtering; Generation and importing of X.509 certification; syslog; HTTPS; 802.1x; Trusted boot; Trusted execution; Trusted upgrade
Network Protocol	IPv4; IPv6; HTTP; TCP; UDP; ARP; RTP ; RTSP; RTCP; RTMP; SMTP; FTP; SFTP; DHCP; DNS; DDNS; QoS; UPnP; NTP; Multicast; ICMP; IGMP; NFS; SAMBA; PPPoE; SNMP
Interoperability	ONVIF (Profile S/Profile G/Profile T); CGI; Milestone; Genetec; P2P
Storage	FTP; SFTP; Micro SD card (support max. 256 GB); NAS
Browser	With plug-in: IE: IE 9 and later Chrome: Chrome 86 and later Firefox: Firefox 86 and later Without plug-in: Edge Chrome: Chrome 86 and later Firefox: Firefox 86 and later
Management Software	PMS

Certification

Certifications	CE-LVD: EN62368-1 CE-EMC: Electromagnetic Compatibility Directive 2014/30/EU FCC: 47 CFR FCC Part 15, Subpart B

Power

Power Supply	12 VDC/PoE+ (802.3at)
Power Consumption	Basic: 6.054 W (12 VDC); 5.893 W (PoE) Max. (ICR + indicator intensity + power output): 8.845 W (12 VDC); 8.325 W (PoE) Heating: 3 W (12 VDC); 3 W (PoE)

Environment

Operating Temperature	−30 °C to +45 °C (−22 °F to +113 °F)
Operating Humidity	≤ 95%
Storage Temperature	−30 °C to +70°C (−22 °F to +158 °F)
Protection	IP67

Structure

Casing	Metal + plastic
Product Dimensions	83.8 mm × Φ176 mm (3.3" × Φ6.9")
Net Weight	0.776 kg (1.71 lb)
Gross Weight	1.19 kg (2.62 lb)

Ordering Information

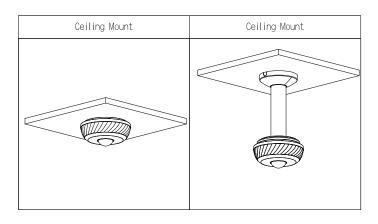| Type	Model	Description
IP Camera	DH-IPC-EB81242-PD	Parking Space Detection Fisheye WizMind Network Camera
	IPC-EB81242-PD	Parking Space Detection Fisheye WizMind Network Camera
Accessories (optional)	PFB300C	Ceiling Mount Bracket
	PFA100	Adapter Plate

Accessories

Optional:

PFB300C
Ceiling Mount Bracket

PFA100
Adapter Plate

Ceiling Mount	Ceiling Mount

Dimensions (mm[inch])

83.8 [3.3]

Ø176.0 [Ø6.93]
Ø130.9 [Ø5.15]
3-Ø5.0 [Ø0.2]