alhua TECHNOLOGY

DH-IPC-HDBW5241F-M-SA

2MP Mobile Fixed-focal Dome Network Camera

- 1/2.8" 2Megapixel progressive scan STARVIS™ CMOS
- SMART H.264+/H.265+ triple-stream encoding
- 25/30 fps @ 1080p (1920 × 1080)
- WDR (120 dB), Day/Night (ICR), 3D DNR, AWB, AGC, BLC
- Multiple network monitoring: Web viewer, CMS (DSS/PSS) & DMSS
- 2.8 mm fixed-focal les (3.6 mm, 6.0 mm, 8.0mm optional)
- Max. IR LEDs Distance: 30 m
- Micro SD memory, IP67, IK10

| 2Mp | Face Detection | Perimeter Protection | People counting | IK10 | IP67 |

Series Overview

Dahua Mobile series network camera can be used stably in mobile scenes such as train and bus. This series camera complies with the vehicle-related requirements of EN50155 and E-mark (ECE 10) (Select as needed). Working with Dahua mobile NVR, it can provide various mobile solutions.

Functions

Face Detection

Dahua Face Detection technology can detect the face in the image. With deep learning algorithm, the technology supports detecting, tracking, capturing and selecting the best face image, and then outputs face snapshot.

Perimeter Protection

With deep learning algorithm, Dahua Perimeter Protection technology can recognize human and vehicle accurately. In restricted area (such as pedestrian area and vehicle area), the false alarms of intelligent detection based on target type (such as tripwire, intrusion, fast moving, parking detection, loitering detection and gathering detection) are largely reduced.

People Counting

With deep learning algorithm, Dahua People Counting technology can track and process moving human body targets to realize the accurate statistics of enter No., leave No., and In Area No. Working with management platform, it outputs yearly/monthly/weekly/daily reports to meet your requirements.

Protection (IP67, IK10)

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.
IK10: The enclosure can stand the punch more than 5 times from a 5 kg hammer falling from a height of 40 cm (Impact energy is 20J).
Wide voltage: The camera allows ±30% input voltage tolerance (wide voltage range), and it is widely applied to outdoor environment with instable voltage.

Onvif

Technical Specification

Camera

Image Sensor	1/2.8"2Megapixel progressive CMOS
Max. Resolution	1920 (H) × 1080 (V)
ROM	128 MB
RAM	512 MB
Scanning System	Progressive
Electronic Shutter Speed	Auto/Manual 1/3 s–1/100,000 s
Min. Illumination	0.002 Lux @ F1.6
S/N Ratio	> 56 dB
Illumination Distance	30 m (98.4 ft)
Illuminator On/Off Control	Auto/Manual
Illuminator Number	8(IR)
Pan/Tilt/Rotation Range	Pan: −30° to 30° Tilt: 0° to 80° Rotation: 0° to 360°

Lens

Lens Type	Fixed-focal
Mount Type	M12
Focal Length	2.8 mm; 3.6 mm; 6 mm; 8 mm
Max. Aperture	2.8 mm: F1.6 3.6 mm: F1.6 6 mm: F1.6 8 mm: F2.0
Field of View	2.8 mm: Horizontal 106° × Vertical 56° × Diagonal 126° 3.6 mm: Horizontal 87° × Vertical 46° × Diagonal 104° 6 mm: Horizontal 54° × Vertical 29° × Diagonal 63° 8 mm: Horizontal 40° × Vertical 22° × Diagonal 47°
Iris Type	Fixed
Close Focus Distance	2.8 mm: 0.6 m (2.0 ft) 3.6 mm: 1.0 m (3.3 ft) 6 mm: 2.5 m (8.2 ft) 8 mm: 3.4 m (11.2 ft)

	Lens	Detect	Observe	Recognize	Identify
DORI Distance	2.8mm	38.6 m (126.6 ft)	15.4 m (50.5 ft)	7.7 m (25.3 ft)	3.9 m (12.8 ft)
	3.6mm	49.7 m (163.1 ft)	19.9 m (65.3 ft)	9.9 m (32.5 ft)	5.0 m (16.4 ft)
	6 mm	82.8 m (271.7 ft)	33.1 m (108.6 ft)	16.6 m (54.5 ft)	8.3 m (27.2 ft)
	8 mm	110.3 m (361.9 ft)	44.1 m (144.7 ft)	22.1 m (72.5 ft)	11.0 m (36.1 ft)

Smart Event

IVS	Abandoned object; missing object
Heat Map	Yes

Professional, intelligent

IVS (Perimeter Protection)	Tripwire, intrusion, fast moving (the three functions support the classification and accurate detection of vehicle and human), loitering detection, people gathering, parking detection
Face Detection	Face detection; track; optimization; snapshot; report high quality picture; face enhancement; face exposure; face matting setting: Face, single inch photo; three snapshot methods: Real-time snapshot, optimization snapshot, quality priority; face angle filter; optimization time setting
People Counting	Support the counting of enter number and leave number, and displaying and outputting yearly/monthly/weekly/daily reports. Support the counting of number in area, and 4 rules configuration. Count number of people or stay time and link alarm. Support queue management, and 4 rules configuration. Count number of people or stay time and link alarm.
Intelligent Search	Work together with Smart NVR to perform refine intelligent search, event extraction and merging to event videos.

Video

Video Compression	H.265; H.264; H.264H; H.264B; MJPEG (only supported by sub stream)
Smart Codec	Smart H.265+/ Smart H.264+
Video Frame Rate	Main stream: 1080p (1–25/30 fps) Sub stream: D1 (1–25/30 fps) Third stream: 1080p (1–25/30 fps)
Stream Capability	3 streams
Resolution	1080p (1920 × 1080); 720p (1280 × 720); D1 (704× 576/704 × 480); CIF (352 × 288/352 × 240)
Bit Rate Control	CBR/VBR
Video Bit Rate	H.264: 32 kbps–8192 kbps H.265: 12 kbps–8192 kbps
Day/Night	Auto (ICR)/Color/B/W
BLC	Yes
HLC	Yes
WDR	120 dB
Scene Self-adaptation	Yes
White Balance	Auto/natural/street lamp/outdoor/manual/regional custom
Gain Control	Auto/Manual
Noise Reduction	3D DNR
Motion Detection	OFF/ON (4 areas, rectangular)
Region of Interest (RoI)	Yes (4 areas)
Smart Illumination	Yes
Defog	Yes
Image Rotation	0°/90°/180°/270° (Support 90°/270° with 1080p resolution and lower.)
Mirror	Yes
Privacy Masking	4 areas

Audio

Built-in MIC	Yes
Audio Compression	G.711a; G.711Mu; G.726; AAC; G.723

Alarm

Alarm Event	No SD card; SD card full; SD card error; network disconnection; IP conflict; illegal access; motion detection; video tampering; scene changing; intrusion; tripwire; abandoned object; missing object; fast moving; parking detection; loitering detection; people gathering; audio detection; people counting; face detection; voltage detection; People counting in area; Stay alarm; People No. exception detection; Queue Management

Network

SDK and API	Yes
Network	RJ-45 (10/100 Base-T)
Protocol	IPv4; IPv6; HTTP; HTTPS; TCP; UDP; ARP; RTP ; RTSP; RTCP; RTMP; SMTP; FTP; SFTP; DHCP; DNS; DDNS; QoS; UPnP; NTP; Multicast; ICMP; IGMP; NFS; SAMBA; PPPoE; 802.1x; SNMP
Interoperability	ONVIF (Profile S/Profile G/Profile T); CGI; Milestone; Genetec; P2P
User/Host	20 (Total bandwidth: 80 M.)
Storage	Dahua Cloud; FTP; SFTP; Micro SD card (support max. 256 G); NAS
Browser	IE: IE8 and later Chrome Firefox Safari: Safari12 and later
Management Software	Smart PSS; DSS; DMSS
Mobile Phone	IOS; Android

Certification

Certifications	CE-LVD: EN62368-1 CE-EMC: Electromagnetic Compatibility Directive 2014/30/EU FCC: 47 CFR FCC Part 15, Subpart B UL/CUL: UL60950-1 CAN/CSA C22.2 No.60950-1-07 E-MARK: ECE Regulation 10.05

Power

Power Supply	12V DC/ PoE (802.3af)
Power Consumption	<5.3W

Environment

Operating Conditions	−40°C to +60°C (−40°F to +140°F)/less than 95% RH
Strorage Conditions	−40°C to +60°C (−40°F to +140°F)
Protection Grade	IP67; IK10

Structure

Casing	Metal
Dimensions	55.0 mm × Φ108.9 mm (2.2" × Φ4.3")
Net Weight	380 g (0.8 lb)
Gross Weight	520 g (1.1 lb)

Ordering Information

Type	Part Number	Description
2MP camera	DH-IPC-HDBW5241FP-M-SA-0280B	2MP MobileFixed-focal Dome Network Camera PAL
	DH-IPC-HDBW5241FP-M-SA-0360B	2MP Mobile Fixed-focal Dome Network Camera PAL
	DH-IPC-HDBW5241FP-M-SA-0600B	2MP Mobile Fixed-focal Dome Network Camera PAL
	DH-IPC-HDBW5241FP-M-SA-0800B	2MP Mobile Fixed-focal Dome Network Camera PAL
	DH-IPC-HDBW5241FN-M-SA-0280B	2MP Mobile Fixed-focal Dome Network Camera NTSC
	DH-IPC-HDBW5241FN-M-SA-0360B	2MP Mobile Fixed-focal Dome Network Camera NTSC
	DH-IPC-HDBW5241FN-M-SA-0600B	2MP Mobile Fixed-focal Dome Network Camera NTSC
	DH-IPC-HDBW5241FN-M-SA-0800B	2MP Mobile Fixed-focal Dome Network Camera NTSC
Accessories (optional)	PFA139	Junction Box
	PFB204W	Wall Mount
	PFA152-E	Pole Mount
	PFB220C	Mount Adapter
	PFA106	Celling Mount

Accessories

Optional:

PFA139
Junction Box

PFB204W
Wall Mount

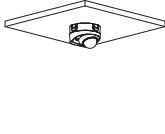PFA152-E
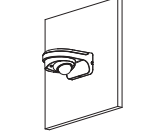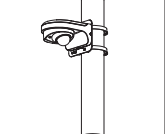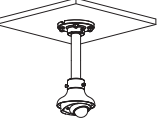Pole Mount

PFB220C
Ceiling Mount

PFA106
Mount Adapter

PFM321D
DC12V1A Power Adapter

PFM900-E
Integrated Mount Tester

PFM114
TLC SD Card

Junction Mount	Wall Mount	Pole Mount	Celling Mount
PFA139	PFB204W	PFB204W+PFA152-E	PFB220C+PFA106

Dimensions (mm[inch])

55.0 [2.17]
108.9 [4.29]

∅108.9 [∅4.29]
∅91.0 [∅3.58]
36°
∅4.5 [∅0.18]

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