alhua TECHNOLOGY

DH-IPC-HDBW5442R-ASE

4MP WDR IR Dome AI Network Camera

· 1/1.8" 4Megapixel progressive scan CMOS

· H.265 & H.264 triple-stream encoding

· 25/30 fps@2688 × 1520, 50/60 fps@1080P (1920 × 1080)

· WDR (140 dB), Day/Night (ICR), 3D DNR, AWB, AGC, BLC

· Multiple network monitoring: Web viewer, CMS (DSS/PSS) & DMSS

· 2.8 mm fixed lens (3.6 mm, 6.0 mm optional)

· 1/1 Alarm in/out, 1/1 audio in/out

· Max. IR LEDs Length 50 m

· Micro SD memory, IP67, IK10

ePoE

| 4Mp | Face Detection | Perimeter Protection | People Counting | Starlight |

System Overview

Pro AI series contains Face Detection, Perimeter Protection and People Counting functions.Powered by deep-learning Artificial Intelligence algorithms, significantly improved accuracy. Meanwhile, the series features starlight and smart IR technology. This series fully protected from dust and water, certified to IP67 and vandal resistant to IK10 standard.

Functions

Face Detection

Face Detection is a software application that automatically captures faces from within a digital image or a video frame from a video source. Dahua cameras use advanced deep learning algorithms and are trained by a large number of face data sources, enabling the camera to locate faces quickly and accurately from the video source and capture facial images.

Perimeter Protection

Dahua's Perimeter Protection functions significantly improved accuracy. Perimeter Protection reduces false alarms and decreases pixel count requirements for object detection. Perimeter Protection features custom tripwires based on object type for automation in limited access areas such as pedestrian or vehicle-only zones. This combination of advanced AI analytics and real-time alerts to a desktop or to a mobile client reduces system requirements and resources resulting in greater surveillance system efficiency.

Купити: https://dahua-technology-dh-ipc-hdbw5442rp-ase-2-8-mm

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People Counting

People Counting function uses advanced image processing technology to capture depth information from within images. The camera pairs this information with deep learning algorithms to analyze and detect human bodies and track target objects in real time. The camera provides statistics for separate individuals' entrance and exit with up to 95% counting accuracy.

ePoE technology

The ePoE technology of Dahua, designed internally, adopts advanced 2D-PAM3 coding modulation from physical layer, and realizes full duplex transmission over 800 meters at the speed of 10Mbps, or 300 meters at the speed of 100Mbps via Cat 5 or coaxial cable media. Besides, it supports PoE and PoC power supply technology which has greatly simplified construction and wiring. Dahua ePoE technology offer a new way to accomplish long distance transmission between IP camera and network switch. It allows more flexible surveillance system design, improves reliability and saves construction and wiring cost.

Protection(IP67, IK10, wide voltage)

The camera allows for ±30% input voltage tolerance, suitable for the most unstable conditions for outdoor applications. Its 6KV lightning rating provides effective protection for both the camera and its structure against lightning. Subjected and certified to rigorous dust and immersion tests (IP67) and impact tests (IK10), the camera is the choice for installation in even the most unforgiving environments.

ONVIF

Technical Specification

Camera

Image Sensor	1/1.8" 4Megapixel progressive scan CMOS
Effective Pixels	2688 (H) × 1520 (V)
RAM/ROM	512 MB/128 MB
Scanning System	Progressive
Electronic Shutter Speed	Auto/Manual, 1/3 s–1/100000 s
Minimum Illumination	0.002 Lux@F1.6
IR Distance	Distance up to 50 m (164 ft)
IR On/Off Control	Auto/Manual
IR LEDs	1

Lens

Lens Type	Fixed-focal
Mount Type	Board-in
Focal Length	2.8 mm, 3.6 mm, 6.0 mm
Max. Aperture	F1.6
Angle of View	H: 113°, V: 60°/H: 89°, V: 48°/H: 56°, V: 31°
Aperture Type	Fixed
Close Focus Distance	1.3 m (4.27 ft)/1.9 m (6.23 ft)/3.8 m (12.47 ft)

DORI Distance	Lens	Detect	Observe	Recognize	Identify
	2.8mm	58m(190ft)	23m(75ft)	12m(39ft)	6m(20ft)
	3.6mm	72m(236ft)	29m(95ft)	14m(46ft)	7m(23ft)
	6.0mm	113m(371ft)	45m(148ft)	23m(75ft)	11m(36ft)

Pan/Tilt/Rotation

Pan/Tilt/Rotation Range	Pan: 0˚–355˚; Tilt: 0˚–75˚; Rotation: 0˚–355˚

Artificial Intelligence

Face Detection	Support face image capture
Perimeter Protection	Tripwire, intrusion (Recognition of vehicle and people), fast moving, loitering detection, parking detection and people gathering
People Counting	Support Line crossing/Region/Queueing people counting; Support 4 accesses independent detection, 4 areas independent detection

General Intelligence

Event Trigger	Motion detection, Video tampering , Scene changing, Network disconnection , IP address conflict, Illegal Access,Storage anomaly
General Intelligence	Object Abandoned/Missing
Heat Map	Yes

Video

Compression	H.265,H.264,H.264B,H.264H, MJPEG (sub stream)
Smart Codec	Yes
Streaming Capability	3 Streams

Resolution	2688 × 1520/2560 × 1440/2304 × 1296/1080P (1920 × 1080)/1.3M (1280 × 960)/720P (1280 × 720)/D1 (704 × 576/704 × 480)/VGA (640 × 480)/CIF (352 × 288/352 × 240)
Frame Rate	Main Stream: 2688 × 1520 (1 fps–25/30 fps) 2560 × 1440 (1 fps–25/30 fps) 1920 × 1080 (1 fps–50/60 fps) Sub Stream: D1 (1 fps–25/30 fps) D1 (1 fps–50/60 fps) Third Stream: 1080P (1 fps–16 fps)
Bit Rate Control	CBR/VBR
Bit Rate	H.264: 32 Kbps–8192 Kbps H.265: 19 Kbps–8192 Kbps
Day/Night	Auto(ICR)/Color/B/W
BLC Mode	BLC/HLC/WDR (140 dB)
White Balance	Auto/Natural/Street Lamp/Outdoor/Manual
Gain Control	Auto/Manual
Noise Reduction	3D DNR
Motion Detection	Off/On (4 Zone, Rectangle)
Region of Interest	Off/On (4 Zone)
Electronic Image Stabilization (EIS)	N/A
Smart IR	Yes
Defog	Yes
Flip	0°/90°/180°/270°
Mirror	Off/On
Privacy Masking	Off/On (4 Area, Rectangle)

Audio

Compression	G.711a, G.711Mu, G.726, AAC, G.723

Network

Ethernet	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;PPPoE;802.1x;SNMP
Interoperability	ONVIF (Profile S/Profile G/Profile T), CGI, Milstone, Genetec, P2P
Streaming Method	Unicast/Multicast
Max. User Access	20 Users
Edge Storage	NAS;FTP;SFTP Micro SD card 256 GB
Web Viewer	IE (versions newer than IE8), Chrome, Firefox, Safari (versions newer than Safari 12)
Management Software	Smart PSS, DSS, DMSS
Smart Phone	iOS, Android

Certifications

Certifications	CE-LVD: EN60950-1 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

Interface

Audio Interface	1/1 channel In/Out
RS485	N/A
Alarm	1 channel In: 5mA 5V DC 1 channel Out: 300mA 12V DC

Electrical

Power Supply	DC 12V (±30%), PoE (802.3af) (Class 0)
Power Consumption	<6.1W

Environmental

Operating Conditions	-30° C to +60° C (-22° F to +140° F)/Less than 95% RH
Storage Conditions	-30° C to +60° C (-22° F to +140° F)
Ingress Protection	IP67
Vandal Resistance	IK10

Construction

Casing	Metal
Dimensions	Φ122.0 mm × 88.9 mm (4.80" × 3.50")
Net Weight	0.47 kg (1.04 lb)
Gross Weight	0.63 kg (1.39 lb)

Ordering Information

Type	Part Number	Description
4MP camera	DH-IPC-HDBW5442RP-ASE	4MP WDR IR Dome AI Network Camera, WDR, PAL
	DH-IPC-HDBW5442RN-ASE	4MP WDR IR Dome AI Network Camera, WDR, NTSC
	IPC-HDBW5442RP-ASE	4MP WDR IR Dome AI Network Camera, WDR, PAL
	IPC-HDBW5442RN-ASE	4MP WDR IR Dome AI Network Camera, WDR, NTSC
Accessories (optional)	PFA137	Junction box
	PFB200C	Inceiling Mount
	PFA200W	Rain Shade
	PFA123	Junction box
	PFB203W	Wall Mount
	PFA152-E	Pole Mount
	PFA106	Mount Adapter
	PFB220C	Ceiling Mount

Accessories

Optional:

PFA137
Junction box

PFB200C
Inceiling Mount

PFA200W
Rain Shade

PFA123
Junction box

PFB203W
Wall Mount
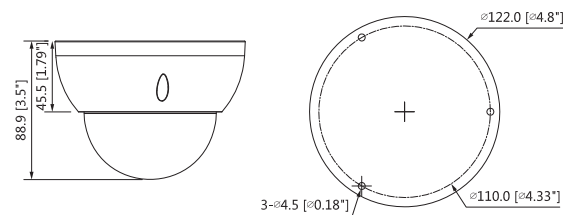
PFA152-E
Pole Mount

PFA106
Mount Adapter

PFB220C
Ceiling Mount

LR1002
ePoE Over Coax Converter

Junction Mount	Inceiling Mount	Wall Mount with Rain Shade	Junction Mount
PFA137	PFB200C	PFA200W	PFA123

Wall Mount	Pole Mount	Ceiling Mount	
PFB203W	PFB203W + PFA152-E	PFA106+ PFB220C	

Dimensions (mm[inch])

88.9 [3.5"] 45.5 [1.79"]

∅122.0 [∅4.8"]
3-∅4.5 [∅0.18"] ∅110.0 [∅4.33"]

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