

# IPC-HDBW5241R-ASE

## 2MP Fix Dome Network Camera



### Overview

AI series products adopt the most advanced AI technologies, including deep learning algorithms that primarily target people and vehicles, which provides higher flexibility and accuracy for end-users. This enables the AI series to offer various advanced applications such as Face Recognition, ANPR, Metadata, People Counting, traffic data statistics, etc. The complete lineup of AI includes network (PTZ) cameras, network video recorders, servers, and platform management products. Beyond seeing the world, the power of AI allows devices to perceive the environment and understand the world in a better way.

### Key Feature

- 1/2.8" 2Megapixel progressive scan STARVIS™ CMOS
- H.265&H.264 triple-stream encoding
- 25/30fps@1080P(1920×1080)
- WDR(120dB), Day/Night(ICR), 3D DNR, AWB, AGC, BLC
- Multiple network monitoring: Web viewer, CMS(DSS/PSS) & DMSS
- 2.8mm fixed lens (3.6mm/6mm optional)
- 1/1 Alarm in/out, 1/1 audio in/out
- Max. IR LEDs Length 40 m
- Micro SD memory, IP67, IK10

### Function

#### Face Capture

Face capture is a software application that automatically captures faces from within a digital image or a video frame from a video source. Shogun 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

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

#### 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.

#### Metadata

Metadata is feature attribute information extracted from a target object which can be used for data retrieval. The face detection camera can extract six facial attributes and output the metadata for analysis.

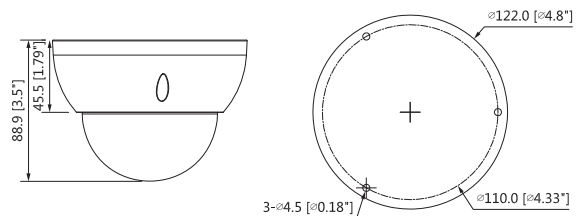
#### Protection (IP67, IK10, wide voltage)

IP67: The camera passes a series of strict test on dust and soak. It has dust-proof function, and the enclosure can work 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  $\pm 30\%$  (for some power supplies) input voltage tolerance (wide voltage range), and it is widely applied to outdoor environment with instable voltage.

### Dimensions



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Technical Specification					
<b>Camera</b>					
Image Sensor	1/2.8" 2Megapixel progressive scan STARVIS™ CMOS				
Effective Pixels	1920(H) x 1080(V)				
RAM/ROM	512MB/128MB				
Scanning System	Progressive				
Electronic Shutter Speed	Auto/Manual, 1/3~1/100000s				
Minimum Illumination	0.002Lux/F1.6 ( Color,1/3s,30IRE) 0.012Lux/F1.6 ( Color,1/30s,30IRE) 0Lux/F1.6(IR on)				
IR Distance	Distance up to 40m (131ft)				
IR On/Off Control	Auto/ Manual				
IR LEDs	1				
<b>Lens</b>					
Lens Type	Fixed				
Mount Type	Board-in				
Focal Length	2.8mm,3.6mm,6.0mm				
Max. Aperture	F1.6				
Angle of View	H: 106°, V:57°/H: 87°, V:46°/H: 53°, V:30°				
Optical Zoom	N/A				
Aperture Type	Fixed				
Close Focus Distance	0.6m(1.97ft)/1.2m(3.94ft)/2.5m(8.20ft)				
DORI Distance	Lens	Detect	Observe	Recognize	Identify
	2.8mm	39m(128ft)	15m(49ft)	8m(26ft)	4m(13ft)
	3.6mm	55m(180ft)	22m(72ft)	11m(36ft)	6m(20ft)
	6.0mm	83m(272ft)	33m(108ft)	17m(56ft)	8m(26ft)
<b>Pan/Tilt/Rotation</b>					
Pan/Tilt/Rotation Range	Pan:0°~355°; Tilt:0°~75°; Rotation:0°~355°				
<b>Artificial Intelligence</b>					
Face Capture	Support face image capture				
Face Attributes	Support 6 kinds of face attributes extraction: Age, Gender, Expression (Jolly/Surprise/Normal/ Rage/Sad/Disgusted/Confused/Frightened), Glasses, Mouth Mask, Moustache & Beard				
Perimeter Protection	Tripwire, Intrusion (Human & Vehicle classification)				
People Counting	Line crossing people counting, Region people counting				
<b>General Intelligence</b>					
Event Trigger	Motion detection, Video tampering, Scene changing, Network disconnection, IP address conflict, Illegal Access, Storage anomaly				
General Intelligence	Object Abandoned/Missing				

Video	
Compression	H.265+/H.265/H.264+/H.264/H.264B/H.264H/MJPEG(sub stream)
Streaming Capability	3 Streams
Resolution	1080P(1920x1080)/1.3M(1280x960)/720P(1280x720)/D1(704x576/704x480)/VGA(640x480)/CIF(352x288/352x240)
Frame Rate	Main Stream: 1080P(1~25/30fps) Sub Stream: D1(1~25/30fps) Third Stream: 1080P(1~6fps)
Bit Rate Control	CBR/VBR
Bit Rate	H.264: 32~ 8192Kbps H.265: 19~ 7424Kbps
Day/Night	Auto(ICR) / Color / B/W
BLC Mode	BLC / HLC / WDR(120dB)
White Balance	Auto/Natural/Street Lamp/Outdoor/Manual
Gain Control	Auto/Manual
Noise Reduction	3D DNR
Motion Detetion	Off / On (4 Zone, Rectangle)
Region of Interest	Off / On (4 Zone)
Electronic Image Stabilization (EIS)	N/A
Smart IR	Support
Defog	Support
Digital Zoom	N/A
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 (10/100Base-T)
Protocol	HTTP; TCP; ARP; RTSP; RTP; UDP; RTCP;SMTP; FTP; DHCP; DNS; DDNS; PPPoE; IPv4/v6; SNMP;QoS; UPnP;NTP
Interoperability	ONVIF(Profile S/Profile G), CGI, Milstone, Genetec, P2P
Streaming Method	Unicast / Multicast
Max. User Access	20 Users
Edge Storage	NAS FTP Mirco SD card 256GB

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## 2MP Fix Dome Network Camera

Web Viewer	IE(versions newer than IE8), Chrome, Firefox, Safari(versions newer than Safari 12)
Management Software	Smart PSS, DSS, P2P
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
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### Interface

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

### Electrical

Power Supply	DC12V(±30%), PoE(802.3af)(Class 0)
Power Consumption	DC12V:2.3W 4.8W(IR on) PoE:2.8W 5.5W(IR on)

### Environmental

Operating Conditions	-30° C ~ +60° C (-22° F ~ +140° F) / 10%RH~95% RH
Storage Conditions	+5° C ~ +40° C (+41° F ~ +104° F) (daily temperature difference within 15° C/59° F) / 10%RH~95% RH
Ingress Protection	IP67
Vandal Resistance	IK10

### Construction

Casing	Metal
Dimensions	Φ122mm×88.9mm (4.80"×3.50")
Net Weight	0.46Kg (1.01lb)
Gross Weight	0.62Kg (1.37lb)