

# DH-IPC-HDPW1231F-AS

2MP IR Mini Dome Network camera



- 1/2.8" 2Megapixel progressive scan CMOS
- H.265&H.264 triple-stream encoding
- 25/30fps@1080P(1920×1080)
- WDR(120dB), Day/Night(ICR), 3DNR,AWB,AGC,BLC
- Multiple network monitoring: Web viewer, CMS(DSS/PSS) & DMSS
- Max. IR LEDs Length 25m
- Micro SD memory,IP65,PoE



## System Overview

The IR Megapixel Fixed camera delivers 2MP resolution with a 2.8mm/3.6mm/6mm fixed lens. The camera's elegant blend of aesthetics combined with a range of easy mounting solutions provides an excellent choice for a variety of small to mid-size applications at an affordable price.

## Functions

### Starlight Technology

Featuring Dahua's Starlight Technology, this camera is ideal for applications with challenging lighting conditions. Its low-light performance delivers usable video with minimal ambient light. Even in extreme low-light conditions, Starlight Technology is capable of delivering color images in near complete darkness (0.003 lux).

### Wide Dynamic Range

Embedded with industry leading wide dynamic range (WDR) technology, vivid pictures are achieved even in the most intense contrast lighting conditions. For applications with both bright and low lighting conditions that change quickly, True WDR (120dB) optimizes both the bright and dark areas of a scene at the same time to provide usable video.

### Intelligent Video System (IVS)

With built-in intelligent video analytics, the camera has the ability to detect and analyze moving objects for improved video surveillance. The camera provides optional standard intelligence at the edge allowing detection of multiple object behaviors such as abandoned or missing objects. IVS also supports Tripwire analytics, allowing the camera to detect when a pre-determined line has been crossed, ideal for business intelligence, and Facial Detection, for searching or identification of individuals.

### Smart H.265+

Deliver high quality video without straining the network, Smart H.265+ is the optimized implementation of H.265. The Smart H.265+ encoding technology includes a scene adaptive encoding strategy, dynamic GOP,

dynamic ROI, flexible multi-frame reference structure and intelligent noise reduction, providing saving of up to 70% of bandwidth and storage when compared with standard H.265.

### HEVC (H.265)

H.265 ITU-T VCEG is a new video coding standard. H.265 Following standard developed around the existing video coding standard H.264, some retain the original technology, while some of the relevant technology to improve the new technology uses advanced technology to improve the relationship between the code stream, encoding quality, and the delay between algorithm complexity, optimize settings specific contents include: Improve compression efficiency, improve the robustness and error recovery capabilities, real-time to reduce the delay, reduce channel acquisition time and a random access delay, reduce complexity, etc

### Technical Specification

#### Camera

Image Sensor	1/2.8 2Megapixel progressive scan CMOS
Effective Pixels	1920(H)x1080(V)
RAM/ROM	256MB/32MB
Scanning System	Progressive
Electronic Shutter Speed	Auto/Manual, 1/3~1/100000s
Minimum Illumination	0.003Lux/F2.1 ( Color,1/3s,30IRE) 0.02Lux/F2.1 ( Color,1/30s,30IRE) 0Lux/F2.1 (IR on)
S/N Ratio	More than 50dB
IR Distance	Distance up to 25m(82ft)
IR On/Off Control	Auto/Manual
IR LEDs	10

#### Lens

Lens Type	Fixed				
Mount Type	Board-in				
Focal Length	2.8mm(3.6mm, 6mm optional)				
Max. Aperture	F2.1(F2.2, F2,1)				
Angle of View	H: 110° (90°, 53°) , V: 58° (50° , 30°)				
Optical Zoom	N/A				
Focus Control	Fixed				
Close Focus Distance	0.6m(0.9m, 2m)				
DORI Distance	Lens	Detect	Observe	Recognize	Identify
	2.8mm	44m(144ft)	18m(59ft)	9m(29ft)	4m(13ft)
	3.6mm	55m(180ft)	22m(72ft)	11m(36ft)	5.5m(18ft)
	6mm	83m(272ft)	33m(108ft)	17m(56ft)	8m(26ft)

#### Pan/Tilt/Rotation

Pan/Tilt/Rotation Range	Pan:-30°~30°; Tilt:0°~80°; Rotation:0°~360°
-------------------------	---

#### Intelligence

Event Trigger	Motion detection, Video tampering, Scene changing, Network disconnection, Ip address conflict, Illegal access, Storage anomaly
IVS	Tripwire, Intrusion

#### Video

Compression	H.265/H.264H/MJPEG(Sub Stream)
Smart Codec	Support H.265+/H.264+
Streaming Capability	2 Streams
Resolution	1080P(1920x1080)/ 1.3M(1280x960)/ 720P(1280x720)/ D1(704x576)/ VAG(640x480)/ CIF(352x288)
Frame Rate	Main Stream: 1080P(1~25/30fps)
	Sub Stream: D1 (1 ~ 25/30fps)
Bit Rate Control	CBR/VBR
Bit Rate	H.264H:16Kbps ~ 10240Kbps H.6Kbps ~ 7424Kbps
Day/Night	Auto(ICR) / Color / B/W
BLC Mode	BLC / HLC / WDR(120dB)
White Balance	Auto/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	Support
Defog	N/A
Digital Zoom	16x
Flip	0°/90°/180°/270°
Mirror	Off / On
Privacy Masking	Off / On (4 Area, Rectangle)

#### Audio

Compression	G.711a/G.711Mu/G.726/AAC
-------------	--------------------------

#### Network

Ethernet	RJ-45 (10/100Base-T)
Protocol	HTTP;TCP;ARP;RTSP;UDP;SMTP;FTP;DHCP;DNS;DDNS;PPPOE;IPv4/v6;QoS;UPnP;NTP;RTMP
Interoperability	ONVIF Profile G, CGI
Streaming Method	Unicast / Multicast
Max. User Access	10Users/20 Users
Edge Storage	NAS Local PC for instant recording Mirco SD card 128GB
Web Viewer	IE, Chrome, Firefox, Safari
Management Software	Smart PSS, DSS, DMSS
Smart Phone	IOS, Android

#### Certifications

Certifications	CE (EN 60950:2000) UL:UL60950-1 FCC: FCC Part 15 Subpart B
----------------	--

#### Interface

Video Interface	N/A
Audio Interface	Built-in Mic
RS485	N/A
Alarm	N/A

#### Electrical

Power Supply	DC12V, PoE (IEEE 802.3af)(Class 0)
Power Consumption	DC 12V: 2.6W 3.7W(IR on) PoE: 3.5W 5W(IR on)

Environmental

Operating Conditions	-30° C ~ +55° C (-22° F ~ +131° F) / Less than 95% RH
Storage Conditions	-30° C ~ +55° C (-22° F ~ +131° F) / Less than 95% RH
Ingress Protection	IP65
Vandal Resistance	N/A

Construction

Casing	Plastic
Dimensions	106mmx50.3mm(4.17"x1.98")
Net Weight	0.27kg(0.6lb)
Gross Weight	0.4 kg(0.88lb)

Ordering Information

Type	Part Number	Description
2MP camera	DH-IPC-HDPW1231FP-AS-0280B	2MP IR Starlight Mini Dome Network Camera, PAL
	DH-IPC-HDPW1231FP-AS-0360B	2MP IR Starlight Mini Dome Network Camera, PAL
	DH-IPC-HDPW1231FP-AS-0600B	2MP IR Starlight Mini Dome Network Camera, PAL
	IPC-HDPW1231FP-AS-0280B	2MP IR Starlight Mini Dome Network Camera, PAL
	IPC-HDPW1231FP-AS-0360B	2MP IR Starlight Mini Dome Network Camera, PAL
	IPC-HDPW1231FP-AS-0600B	2MP IR Starlight Mini Dome Network Camera, PAL
Accessories (optional)	PFA139	Junction box
	PFB204W	Wall mount
	PFA152	Pole mount

Accessories

Optional:



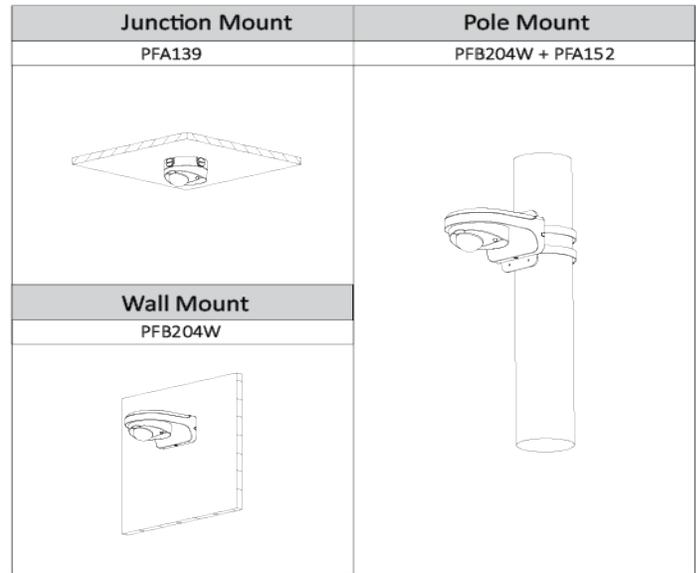
PFA139  
Junction box



PFB204W  
Wall mount



PFA152  
Pole mount



Dimensions (mm/inch)

