# DH-IPC-HDW12B0S

2MP IR Turret Network Camera



## System Overview

The IR Megapixel Fixed camera delivers 2MP/4MP resolution with a motorized 2.8mm/3.6mm 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

## Smart Codec (H.265+ & H.264+)

Smart Codec is the optimized implementation of standard video compression (H.265 & H.264) that uses a scene-adaptive encoding strategy, dynamic GOP, dynamic ROI, flexible multi-frame reference structure and intelligent noise reduction to deliver high-quality video without straining the network. Smart Codec technology reduces bit rate and storage requirements by up to 70% when compared to the standard video compression.

#### True Day/Night

A day/night mechanical IR cut filter makes this camera ideal for applications with fluctuating lighting conditions, delivering color images during the day and automatically switching to monochrome as the scene darkens

#### Regions of interest

Regions of Interest (ROI) is a user defined feature that allows the operator to monitor specific areas of a scene while still maintaining overall situational awareness of less important areas

#### Smart IR

With IR illumination, detailed images can be captured in low light or total darkness. The camera's Smart IR technology adjusts to the intensity of camera's infrared LEDs to compensate for the distance of an object. Smart IR technology prevents IR LEDS from whiting out images as they come closer to the camera. The camera's integrated infrared illumination

- · 1/2.7" 2Megapixel progressive CMOS
- · H.265+ & H.265 dual-stream encoding
- · 25/30fps@1080P(1920×1080)
- · DWDR, Day/Night(ICR), 3DNR, AWB, AGC, BLC
- $\cdot$  Multiple network monitoring: Web viewer, CMS(DSS/PSS) & DMSS
- · 2.8 mm fixed lens (3.6mm optional)
- · Max IR LEDs Length 30m
- · IP67, PoE



provides high performance in extreme low-light environments up to 30m (98ft).

#### Image flip

Capturing unnecessary data such as surrounding hallway walls can increase storage requirements without any added value. The image flip feature allows the camera's image to be rotated in 90° increments for better video optimization.

#### Environmental

Dahua cameras operate in extreme temperature environments, rated for use in temperatures from-30° C to +60° C (-22° F to +140° F) with 95% humidity.

#### Protection (IP67, wide voltage)

The camera allows for  $\pm 25\%$  input voltage tolerance, suitable for the most unstable conditions for outdoor applications. Its 2KV lightning rating provides effective protection for both the camera and its structure against lightning. Subjected and certified to rigorous dust and immersion tests (IP67).

#### Interoperability

The camera conforms to the ONVIF (Open Network Video Interface Forum) specifications, ensuring interoperability between network video products regardless of manufacturer



# ALPS 2.0 | DH-IPC-HDW12BOS

# **Technical Specification**

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Resolution

Frame Rate

Bit Rate

Day/Night

BLC Mode

Bit Rate Control

Camera						
Image Sensor		1/2.7" 2Megapixel progresive CMOS				
Effective Pixels		1920(H) x1080(V)				
RAM/ROM	RAM/ROM		64MB/16MB			
Scanning System	1	Progressive				
Minimum Illumination		0.09Lux/F2.0( Color,1/3s,30IRE) 0.5Lux/F2.0( Color,1/30s,30IRE) 0Lux/F2.0(IR on)				
S/N Ratio		More than 50dB				
IR Distance		Distance up to 30m(98ft)				
IR On/Off Contro	bl	Auto/ Manual	co/ Manual			
IR LEDs		12				
Lens						
Lens Type		Fixed				
Mount Type		Board-in				
Focal Length		2.8 mm (3.6 mm optional)				
Max. Aperture		F2.0/F2.0				
Angle of View		H:112°/87.5°, V:60°/47°				
Focus Control	Fixed					
Close Focus Distance		0.5m(1.64ft)				
	Lens	Detect	Observe	Recognize	Identify	
DORI Distance	2.8 mm	42.1m(138ft)	16.9m(55ft)	8.4m(27.6ft)	4.2m(13.8ft)	
	3.6 mm	53.3m(175ft)	21.3m(70ft)	10.7m(35ft)	5.3m(17.4ft)	
PTZ						
Pan/Tilt Range Pan:0° ~360° ;Tilt:0° ~90° ;Rotation:0° ~36		tion:0° ~360°				
Video						
Compression		H.265/H.264H/MJPEG(Sub Stream)				
Smart Codec		Support H.265+/H.264+				
Streaming Capability		2 Streams				

1080P(1920×1080)/1.3M(1280×960)/ 720P(1280×720)/D1(704×576/704×480)/ VGA(640×480)/ CIF(352×288/352×240)

Main Stream: 1080P (1 ~ 25/30fps)

Sub Stream: D1(1 ~ 25/30fps)

CBR/VBR

H265:12K~6400K

H.264:32K ~8192K

BLC / HLC / DWDR

Auto(ICR) / Color / B/W

White balance	Auto/Matural/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
Digital Zoom	16x
Flip	0°/90°/180°/270°
Mirror	Off / On
Privacy Masking	Off / On (4 Area, Rectangle)
Audio	
Compression	N/A
Network	
Ethernet	RJ-45 (10/100Base-T)
Protocol	HTTP;TCP;ARP;RTSP;RTP;RTCP;UDP;DHCP;DNS;IPV4; NTP;Multicas; ICMP; TLS; FTP
Interoperability	ONVIF Profile S&G
Streaming Method	Unicast / Multicast
Max. User Access	10 Users/20 Users
Edge Storage	Local PC for instant recording
Web Viewer	IE, Chrome, Firefox, Safari
Management Software	Smart PSS, DSS, DMSS
Smart Phone	IOS, Android
Certifications	
Certifications	N/A
Interface	
Video Interface	N/A
Audio Interface	N/A
RS485	N/A
Alarm	N/A
Electrical	
Power Supply	DC12V, PoE (802.3af)(Class 0)
Power Consumption	<4.6W

Auto/Natural/Street Lamp/Outdoor/Manual

White Balance

# ALPS 2.0 | DH-IPC-HDW12BOS

Environmental	
Operating Conditions	-30° C $^{\sim}$ +60° C (-22° F $^{\sim}$ +140° F) / Less than 95% RH
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Ingress Protection	IP67
Vandal Resistance	N/A
Construction	
Casing	Metal+Plastic
Dimensions	Ф108mm×84.9mm(4.25''x3.34'')
Net Weight	0.24Kg(0.53lb)
Gross Weight	0.36Kg(0.79lb)

# Accessories

# **Optional:**

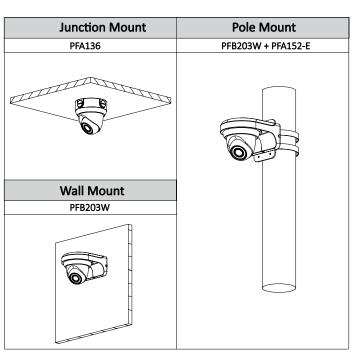




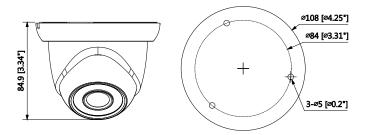


PFA130-E Junction Box

PFB203W PFA152-E Wall mount Pole mount



# Dimensions (mm/inch)



Туре	Part Number	Description	
2MP Camera	DH-IPC-HDW12B0SP	2MP IR turret Network Camera PAL	
	DH-IPC-HDW12B0SN	2MP IR turret Network Camera, NTSC	
	PFA130-E	Junction box	
Accessories	PFB203W	Wall mount	

**Ordering Information** 

2MP Camera	DH-IPC-HDW12B0SP	2MP IR turret Network Camera, PAL
	DH-IPC-HDW12B0SN	2MP IR turret Network Camera, NTSC
Accessories (optional)	PFA130-E	Junction box
	PFB203W	Wall mount
	PFA152-E	Pole mount