

# 4 MP WiFi Mini Dome Network Camera

True Day/Night IR Camera



#### **System Overview**

The Dahua DH-IPC-HDBW1435EN-W-S2 camera offers high-resolution video and WiFi connectivity in a compact and accessible package. The camera features Smart H.265+ video compression, reducing bandwidth and storage requirements without sacrificing video quality. 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**

## 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.

#### Smart H.265+

Smart H.265+ is the optimized implementation of the H.265 codec 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 H.265+ technology reduces bit rate and storage requirements by up to 70% when compared to standard H.265 video compression.

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

- 1/3-in. 4 MP Progressive-scan CMOS Sensor
- 2.4 GHz WiFi (IEEE802.11b/g/n)
- Smart H.265+ and Smart H.264+ Dual Codec
- · Dual-stream Encoding
- 4 MP (2560 × 1440) at 20 fps
- 2.8 mm Fixed Lens
- True Day/Night (ICR)
- Maximum IR Distance 30 m (98 ft)
- IP67 Ingress Protection and IK10 Vandal Resistance
- Five-year Warranty\*













#### 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.

#### Cybersecurity

Dahua network cameras are equipped with a series of key cybersecurity technologies including: security authentication and authorization, access control, trusted protection, encrypted transmission, and encrypted storage. These technologies improve the camera's ability to prevent malicious access and to protect data.

#### Environmental

The camera operate in extreme temperature environments, rated for use in temperatures from  $-30^{\circ}$ C to  $+50^{\circ}$ C ( $-22^{\circ}$  F to  $+122^{\circ}$  F) with 95% humidity. The camera complies with the IP67 rating makes it suitable for demanding outdoor applications.

#### Protection

The camera allows for ±30% 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 strikes.

The camera complies with the IK10 Vandal Resistance impact rating making it capable of withstanding the equivalent of 5 kg (11.02 lbs) of force dropped from a height of 40 cm (15.75 in.). Subjected to rigorous dust and water immersion tests and certified to the IP67 Ingress Protection rating makes it suitable for demanding outdoor applications.

Technical Specification					White Balance	Auto, Natural, Street Lamp, Outdoor, Manual, Regional Custom	
Camera				Gain Control	Auto, Gain Priority, Shutter Priority, Manual		
Image Sensor		1/3-in. 4 MP Progressive-scan CMOS				Noise Reduction	3D DNR
Effective Pixels		2560 (H) x 1440 (V)				Motion Detection	Off, On (4 Zones, Rectangular)
RAM/ROM		256 MB / 128 MB				Region of Interest	Off, On (4 Zones)
Scanning System		Progressive				Smart IR	Support
Electronic Shutter Speed		Auto, Manual, 1/3 s to 1/100,000 s				Flip	0°, 90°, 180°, 270°
Minimum Illumination		Color: 0.8872 lux at F2.0 (1/30 s, 80 IRE) Color: 0.936 lux at F2.0 (1/3 s, 80 IRE) B/W: 1.0275 lux at F2.0 (1/30 s, 80 IRE) B/W: 0.1543 lux at F2.0 (1/3 s, 80 IRE) 0 Lux at F2.0 (IR on)				Mirror	Off, On
						Privacy Masking	Off, On (4 Areas, Rectangular)
						Network	
S/N Ratio		More than 51.025 dB				Ethernet	RJ-45 (10/100 Base-T)
IR Distance		Distance up to 30 m (98.04 ft)				WiFi	2.4 GHz WiFi (IEEE802.11b/g/n)
IR On/Off Control IR LEDs		Auto, Manual				Protocol	HTTP, HTTPs, TCP, ARP, RTSP, RTP, UDP, SMTP, FTP, DHCP, DNS, DDNS, PPPOE, IPv4/v6, QoS, UPnP, NTP Bonjour, 802.1x, Multicast, ICMP, IGMP
Lens						Interoperability	ONVIF (Profile T, Profile S, Profile G), CGI, SDK, API
Lens Type		Fixed				Streaming Method	Unicast, Multicast
						Maximum User Access	20 Users (Total Bandwidth: 40 Mbps)
Mount Type  Focal Length		M12 2.8 mm				Edge Storage	Network Attached Storage (NAS), FTP, SFTP,
Maximum Aperture		F2.0				Wala Vianna	Micro SD card Slot, maximum 128 GB
		Horizontal: 97°				Web Viewer	IE 9 and IE 11 and later, Chrome, Firefox
Angle of View		Vertical: 52°				Management Software	DMSS IOS, Android
		Diagonal: 116°				Mobile Operating System  Cybersecurity	Video Encryption, Firmware Encryption, Configuration Encryption, Digest, WSSE, Account Lockout, Security Logs, IP/MAC Filtering, Generating and Importing X.509 Certification, Syslog, HTTPS,
Iris Control  Close Focus Distance		0.80 m (2.60 ft)					
DORI <sup>1</sup> Distance		Detect (8 ppf)	Observe (19 ppf)	Recognize (38 ppf)	Identify (76 ppf)		802.1x, Trusted Boot, Trusted Execution, Trusted Upgrade
		56.0 m	22.40 m	11.20 m	5.60 m	Certifications	
		(183.70 ft)	(73.50 ft)	(36.70 ft)	(18.40 ft)	Safety	EN 62368-1
Installation Angle		Pan: 0° to 360°				Electromagnetic Compatibility (EMC)	CFR 47 FCC Part 15 Subpart B Electromagnetic Compatibility Directive 2014/30/EU Radio Equipment Directive 2014/53/EU
Range		Tilt: 0° to 90° Rotation: 0° to 355°				Electrical	
Video						Power Supply	12 VDC ±30%, 1 A
Compressi	ion	Smart H.265+, H.265, Smart H.264+, H.264, H.264H, H.264B,				Power Consumption	4.9 W, maximum (12 VDC, IR Full Intensity)
Streaming Capability		MJPEG Two (2) Streams				Environmental	
Resolution		4 MP (2560 x 1440), 3 MP (2304 x 1296), 1080p (1920 x 1080), 1.3 MP (1280 x 960), 720p (1280 x 720), VGA (640 x 480),				Operating Temperature	-30°C to +50°C (-22° F to +122° F) Less than 95%RH
333.3		640 x 360, QVGA (320 x 240)				Storage Temperature	-40°C to +60°C (-40° F to +140° F)
Frame Rate	Main	2560 x 1440 at 20 fps 2304 x 1296 at 30 fps				Ingress Protection	IP67
	Stream					Vandal Resistance	IK10
	Sub Stream	640 x 480 at 20 fps (Main Stream: 2560 x 1440 at 20 fps) 640 x 480 at 30 fps (Main Stream: 2304 x 1296 at 30 fps)				Construction	
Bit Rate Control		CBR, VBR				Casing	Metal
Bit Rate		H.264: 24 kbps to 8192 kbps H.265: 9 kbps to 7424 Kbps				Dimensions	ø110.70 mm x 88.70 mm (ø4.36 in. x 3.49 in.)
Day/Night		Auto (ICR), Color, B/W				Net Weight	0.41 kg (0.90 lb)
BLC Mode		BLC, HLC, Digital WDR				Gross Weight	0.73 kg (1.61 lb)
BLC IVIOUE		DEC, FIEC, DIGITAL WOR				1. The DORI distance is a measure of the general proximity for a specific classification to help pinpoint	

The DORI distance is a measure of the general proximity for a specific classification to help pinpoint
the right camera for your needs. The DORI distance is calculated based on sensor specifications and lab
test results according to EN 62676-4, the standard that defines the criteria for the Detect, Observe,
Recognize and Identify classifications.

# Lite Series | DH-IPC-HDBW1435EN-W-S2

Ordering Information								
Туре	Part Number	Description						
4 MP Camera	DH-IPC-HDBW1435EN-W-S2	4 MP WiFi IR Mini Dome Network Camera, 2.8 mm						
Accessories, included	ADS-12AM-12 12012EPCU	12 VDC, 1 A Power Adapter						
	PFA136	Junction Box						
Accessories, optional	PFA152-E	Pole Mount						
	PFB203W	Wall Mount						

#### Accessories

#### Included:



ADS-12AM-12 12012EPCU 12 VDC, 1 A Power Adapter

#### Optional:



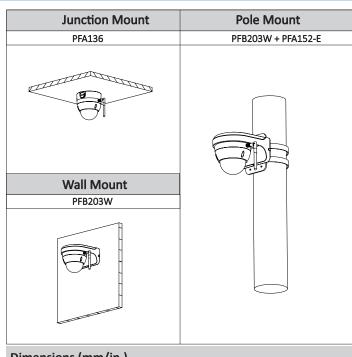
PFA136 Junction Box



PFA152-E Pole Mount



PFB203W Wall Mount



## Dimensions (mm/in.)

