

# 4 MP WiFi Mini Bullet Network Camera

True Day/Night IR Camera



### **System Overview**

The Dahua DH-IPC-HFW1435SN-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.

- 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
- Five-year Warranty\*











### 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).

### 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.

### 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, and its IP67 ingress protection make it the choice for installation in even the most unforgiving environments.

### 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.



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				Digital Zoom	16x
Minimum Illumination		Color: 0.9343 lux at F2.0 (1/30 s, 80 IRE) Color: 0.1195 lux at F2.0 (1/3 s, 80 IRE) B/W: 0.9258 lux at F2.0 (1/30 s, 80 IRE) B/W: 0.1190 lux at F2.0 (1/3 s, 80 IRE) 0 Lux at F2.0 (IR on)				Flip	0°, 90°, 180°, 270°
						Mirror	Off, On
						Privacy Masking	Off, On (4 Areas, Rectangular)
S/N Ratio		More than 52 dB				Network	
IR Distance	2	Distance up to 30 m (98.04 ft)				Ethernet	RJ-45 (10/100 Base-T)
		Auto, Manual				WiFi	2.4 GHz WiFi (IEEE802.11b/g/n)
IR On/Off Control		18				VVIFI	
Lens		10				Protocol	HTTP, HTTPs, TCP, ARP, RTSP, RTP, UDP, SMTP, FTP DHCP, DNS, DDNS, PPPOE, IPv4/v6, QoS, UPnP, NTI Bonjour, 802.1x, Multicast, ICMP, IGMP
Lens Type		Fixed				Interoperability	ONVIF (Profile T, Profile S, Profile G), CGI, SDK, API
Mount Type		M12				Streaming Method	Unicast, Multicast
Focal Length		2.8 mm				Maximum User Access	20 Users (Total Bandwidth: 40 Mbps)
Maximum Aperture		F2.0				Edge Storage	Network Attached Storage (NAS), FTP, SFTP, Micro SD card Slot, maximum 128 GB
Angle of View		Horizontal: 97° Vertical: 52° Diagonal: 116°				Web Viewer	IE 9 and IE 11 and later, Chrome, Firefox
Focus Control		Fixed				Management Software	DMSS
Iris Type		Fixed				Mobile Operating System	IOS, Android
Close Focus Distance		0.80 m (2.60 ft)				Certifications	
DORI¹ Distance		Detect	Observe	Recognize	Identify	Safety	EN 62368-1
		(8 ppf) 56.0 m (183.70 ft)	(19 ppf) 22.40 m (73.50 ft)	(38 ppf) 11.20 m (36.70 ft)	(76 ppf) 5.60 m (18.40 ft)	Electromagnetic Compatibility (EMC)	CFR 47 FCC Part 15 Subpart B Electromagnetic Compatibility Directive 2014/30/E Radio Equipment Directive 2014/53/EU
		,	,	,	,	Electrical	
Installation Angle		Pan: 0° to 360°				Power Supply	12 VDC ±30%, 1 A
Range		Tilt: 0° to 90°				Power Consumption	5.39 W, maximum (12 VDC, IR Full Intensity)
Video						Environmental	
Compression		Smart H.265+, H.265, Smart H.264+, H.264, MJPEG					-30°C to +50°C (-22° F to +122° F)
Streaming Capability		Two (2) Streams				Operating Temperature	Less than 95%RH
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), 640 x 360, QVGA (320 x 240)				Storage Temperature	-40°C to +60°C (-40° F to +140° F)
						Ingress Protection	IP67
From a	Main Stream	2560 x 1440 at 20 fps 2304 x 1296 at 30 fps				Construction	
Frame Rate	Sub Stream	640 x 480 at 20 fps (Main Stream: 2560 x 1440 at 20 fps)				Casing	Metal 164.90 mm x 70.0 mm x 125.20 mm
Bit Rate Control		640 x 480 at 30 fps (Main Stream: 2304 x 1296 at 30 fps) CBR, VBR				Dimensions (L x W x H)	(6.49 in. x 2.76 in. x 4.93 in.)
		H.264: 24 kbps to 8192 kbps				Net Weight	0.43 kg (0.95 lb)
Bit Rate		H.265: 9 kbps to 7424 Kbps				Gross Weight	0.71 kg (1.61 lb)
Day/Night BLC Mode		Auto (ICR), Color, B/W					eneral proximity for a specific classification to help pinpoint

<sup>.</sup> 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-HFW1435SN-W-S2

Ordering Information								
Туре	Part Number	Description						
4 MP Camera	DH-IPC-HFW1435SN-W-S2	4 MP WiFi IR Mini Bullet Network Camera, 2.8 mm						
Accessories, included	ADS-12AM-12 12012EPCU	12 VDC, 1 A Power Adapter						
	PFA134	Junction Box						
Accessories, optional	PFA152-E	Pole Mount						
	PFA151	Corner Mount						

## **Accessories**

### Included:



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

### Optional:







PFA152-E Pole Mount



PFA151 Corner Mount

# Junction Mount PFA134 PFA134 + PFA152-E

# Dimensions (mm/in.)





