

Multi-Sensor Panoramic Camera

3 x 2 MP Multi-Sensor Panoramic Network IR Bullet Camera



• 3 x 2 MP Sensors for a 180° Panoramic View

- Starlight Technology for Ultra-low Light Sensitivity
- H.265 and H.264 Dual Codecs
- True WDR (120 dB)
- True Day/Night
- Maximum IR Distance 30 m (98 ft) with Smart IR
- IP67 Ingress Protection, IK10 Vandal Resistance
- Intelligent Video System (IVS)
- On-board Storage
- Five-year Warranty*



System Overview

The Dahua Multi-Sensor Camera uses three (3) 2 MP sensors to deliver a panoramic 180° scene. One multi-sensor camera replaces multiple single-sensor cameras providing a higher return on investment for your security dollars. The multi-sensor camera features contrast, backlight compensation, white balance, and resolution control to create a crystal-clear image even in the most challenging lighting conditions.

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.

Starlight Technology

For challenging low-light applications, Dahua's Starlight Ultra-low Light Technology offers best-in-class light sensitivity, capturing color details in low light down to 0.007 lux. The Multi-sensor camera uses a set of optical features to balance light throughout the scene, resulting in clear images in very dark environments.

Street Lamp Compensation

The Multi-sensor camera delivers exceptional images even when shooting under sodium-vapor lamps that typically add a yellowish-tint to the scene hampering identification. The Dahua Multi-sensor camera provides a built-in white-balance mode that compensates for the tint to restore the scene to its original color.

Wide Dynamic Range

The multi-sensor camera achieves vivid images, even in the most intense contrast lighting conditions, using industry-leading wide dynamic range (WDR) technology. For applications with both bright and low lighting conditions that change quickly, True WDR (120 dB) optimizes both the bright and dark areas of a scene at the same time to provide usable video.

Intelligent Video System (IVS)

IVS is a built-in video analytic algorithm that delivers intelligent functions to monitor a scene for Tripwire violations, intrusion detection, and abandoned or missing objects. A camera with IVS quickly and accurately responds to monitoring events in a specific area. In addition to scene analytics, the multi-sensor camera supports face detection to quickly capture a face and upload the image to a server. The multi-sensor camera also offers tamper detection by recognizing a dramatic scene change and generating a warning message to inspect the camera.

Smart IR

With IR illumination, detailed images can be captured in low light or total darkness. The camera's Smart IR technology adjusts the intensity of camera's infrared LEDs to compensate the distance of an object. Smart IR technology prevents IR LEDs from whitening 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).

Protection

The multi-sensor camera allows for $\pm 25\%$ input voltage tolerance, suitable for the most unstable conditions for outdoor applications. Its 6 KV lightning rating provides effective protection for both the camera and its structure against lightning. Subjected and certified to rigorous dust and immersion tests (IP67) and impact test (IK10), the multi-sensor camera is the choice for installation in even the most unforgiving environments.

Environmental

The Multi-Sensor camera comes with a built-in heater that extends the operating temperature range to -40° C to $+60^{\circ}$ C (-40° F to $+140^{\circ}$ F), with 95% humidity. This temperature range to allows the camera to operate in the harshest environments.



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Technical S	pecification
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Streaming Capability

Resolution

Frame Rate

Bit Rate Control

Bit Rate

Day/Night BLC Mode

Camera				
Image Sensor		Three (3), 1/2.8-in. 2 MP CMOS Sensors		
Effective Pixels		4096 (H) x 832 (V)		
RAM/ROM		1024 MB / 128 MB		
Scanning System		Progressive		
Minimum Illumination		Color: 0.007 Lux at F1.8 IR: 0 Lux at F1.8 (with IR on)		
S/N Ratio		More t	han 50 dB	
IR Distance		Distan	ce up to 30.0 m (98.43 f	t)
IR On/Off Control		Auto, Manual		
IR LEDs		Eight (8)		
Lens				
Lens Type		Fixed		
Mount Type		Board-in		
Focal Length		3.6 mm		
Max. Aperture		F1.8		
Angle of View			Horizontal: 180° Vertical: 44°	
Focus Control		Fixed		
DORI Distance ¹				
Detect (8 ppf)	Observe (19 ppf)		Recognize (38 ppf)	Identify (76 ppf)
52 m (171 ft)	21 m (69 ft)		10 m (33 ft)	5 m (16 ft)
Video				
Compression Smart		H.265+, H.265, Smart H	.264+, H.264	

Three (3) Streams

1024 x 208

CBR, VBR

4096 x 832, 3840 x 780, 2560 x 520, 1280 x 260,

Main Stream: 4096 x 832 at 30 fps

Sub Stream 1: 1024 x 208 at 30 fps Sub Stream 2: 1280 x 260 at 30 fps

H.264: 8 Kbps to 16 Mbps

H.265: 4 Kbps to 10 Mbps Auto (ICR), Color, B/W

BLC, HLC, WDR (120 dB)

White Balance	Auto, Natural, Street Lamp, Outdoor, Manual
Gain Control	Auto, Manual
Noise Reduction	3D DNR
Motion Detection	Off, On (4 Zones, Rectangular)
Region of Interest	Off, On (4 Zones)
Smart IR	Support
Digital Zoom	16x
Privacy Masking	Off / On (4 Areas, Rectangular)
Audio	
Compression	G.711a, G.711Mu, AAC, G.726
Network	
Ethernet	RJ-45 (100/1000 Base-T)
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, SNMP
Interoperability	ONVIF, PSIA, CGI
Streaming Method	Unicast / Multicast
Max. User Access	20 Users
Edge Storage	NAS Local PC for instant recording Mirco SD card, 128 GB
Web Viewer	Internet Explorer, Firefox, Safari
Management Software	Smart PSS, DSS, P2P
Mobile Operating System	IOS, Android
Certifications	
Safety	CE (EN 60950:2000) UL 60950-1
Electromagnetic Compatibility (EMC)	FCC Part 15 Subpart B
Interface	
Audio Interface	Input: One (1) Channel Output: One (1) Channel
Alarm	Input: One (1) Channel Output: One (1) Channel
Electrical	
Power Supply	24 VAC, PoE+ (802.3at, Class 4)
Power Consumption	24 W, maximum (with IR on)

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.

Ultra Series | DH-IPC-PFW8601N-H-A180

Environmental

Environmental			
Operating Temperature	-40° C to +60° C (-40° F to +140° F), Less than 95% relative humidity		
Storage Temperature	-40° C to +60° C (-40° F to +140° F), Less than 95% relative humidity		
Ingress Protection	IP67		
Vandal Resistance	IK10		
Construction			
Casing	Metal		
Dimensions	298.30 mm x 172.50 mm x 120.50 mm (11.74 in. x 6.79 in. x 4.74 in.)		
Net Weight	2.60 kg (5.73 lbs)		
Gross Weight	3.41 kg (7.52 lbs)		
Intelligence			
IVS triggers an alarm and takes a defined action for the following events:			
Standard Features	 Tampering with the camera. Camera loses or changes focus drastically. Error writing to an onboard Micro SD card. Error sending or receiving data over the network. Unauthorized access to the camera. 		
Premium Features			
Motion	An object moves through any part of the scene.		
Tripwire	A target crosses a user-defined line.		
Intrusion	A target enters or exits a defined perimeter.		
Scene Change	A person or object moves the camera to change the scene or covers the camera to obscure the scene.		
Abandoned/Missing Object	A target leaves an object in designated area, or a target removes an object from the same designated area.		
Advanced Features			
Facial Detection	Detects and captures a snapshot of a human face in a defined area within a scene.		
People Counting	Measure the number of customers, visitors or passengers in a surveillance scene.		

Ordering Information

Heat Map

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Туре	Part Number	Description
3 x 2 MP Camera	DH-IPC-PFW8601N- H-A180	3 x 2 MP Multi-Sensor Panoramic Network IR Bullet Camera, WDR, IVS
Accessories (optional)	PFA120	Junction Box
	PFA120 + PFA150	Pole mount
	PFA120 + PFA151	Corner mount

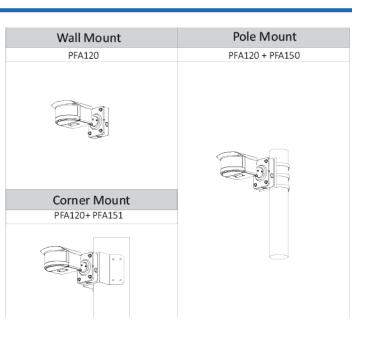
Accessories

Optional:

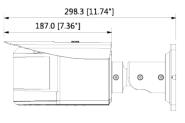




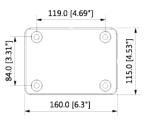
Generates a visual representation of data.



Dimensions (mm/inch)









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