

## 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
- Smart H.265+ and H.264 Dual Codecs
- True Wide Dynamic Range (120 dB)
- True Day/Night
- Maximum IR Distance 30 m (98 ft) with Smart IR
- IP67 Ingress Protection and 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  $-40^{\circ}$  C to  $+60^{\circ}$  C ( $-40^{\circ}$  F to  $+140^{\circ}$  F), with 95% humidity. This temperature range to allows the camera to operate in the harshest environments.



us.dahuasecurity.com

Technical	Specification
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Resolution

Frame Rate

Bit Rate Control

Bit Rate

Day/Night

**BLC Mode** 

Interoperability	ONVIF, PSIA, CGI
Streaming Method	Unicast / Multicast
Max. User Access	20 Users
Edge Storage	Network Assisted Service (NAS) Local PC for instant recording Micro SD Card Slot, maximum 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 or PoE+ (802.3at, Class 4)
Power Consumption	24 W, maximum (with IR on)

Auto, Natural, Street Lamp, Outdoor, Manual

Auto, Manual

Off, On (4 Zones)

Off, On (4 Zones, Rectangular)

Off / On (4 Areas, Rectangular)

G.711a, G.711Mu, AAC, G.726

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

RJ-45 (100/1000 Base-T)

3D DNR

Support

16x

White Balance

Gain Control

Noise Reduction

**Motion Detection** 

**Region of Interest** 

Smart IR

Audio Compression

Network Ethernet

Protocol

Digital Zoom

Privacy Masking

1024 x 208

CBR, VBR

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.

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)

The DORI distance is a measure of the general proximity for a specific classification to help pinpoint the right capera for your peeds. The DORI distance is calculated based on server specifications and lab test

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

#### Environmental

Standard Features

Premium Features

Motion

Tripwire

Intrusion

Object

Туре

3 x 2 MP

Camera

Accessories.

optional

Scene Change

Advanced Features Heat Map

Abandoned/Missing

**Ordering Information** 

Part Number

H-A180 PFA120

DH-IPC-PFW8601N-

PFA120 + PFA150

PFA120 + PFA151

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 lb)
Gross Weight	3.41 kg (7.52 lb)
Intelligence	

• 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.

An object moves through any part of the scene.

A target enters or exits a defined perimeter.

or covers the camera to obscure the scene.

Generates a visual representation of data.

Bullet Camera, WDR, IVS

Description

Junction Box

Pole Mount

Corner Mount

A person or object moves the camera to change the scene

A target leaves an object in designated area, or a target

3 x 2 MP Multi-Sensor Panoramic Network IR

removes an object from the same designated area.

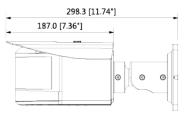
• Unauthorized access to the camera.

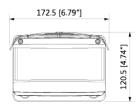
A target crosses a user-defined line.

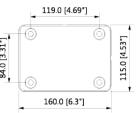
IVS triggers an alarm and takes a defined action for the following events:

Pole Mount Wall Mount PFA120 PFA120 + PFA150 **Corner Mount** PFA120+ PFA151

#### **Dimensions (mm/inch)**







# 84.0 [3.31"]

#### Accessories

#### **Optional:**



Juntion Box

Pole mount Corner mount



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