

# DH-IPC-PFW8601-A180

3x2MP Multi-Sensor Panoramic Network IR Bullet Camera



#### System Overview

The multi-sensor camera provides added flexibility for capturing wide area video surveillance. With three 2MP sensors working in tandem to create a comprehensive 180-degree overview, the camera can replace multiple single-sensor cameras providing a higher return on investment. 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

Featured with Dahua Starlight Technology, the camera is ideal for applications with challenging light conditions. Its low light performance delivers usable video with minimal ambient light. Even in extreme low light conditions, Starlight Technology is capable of delivering color images in nearly complete darkness.

#### Wide Dynamic Range

Embeded with industry leading wide dynamic range (WDR) technology, vivid picutures are achieved even in the most intense contrast lighting conditions. For applications with both bright and low lighting conditions that change quickly, True WDR (120dB) optimizes both the bright and dark areas of a scene at the same time to provide usable video.

#### Intelligent Video System (IVS)

Dahua camera is equipped with a built-in intelligent analytic algorithm based on video, which can realize intelligent functions like Tripwire, Intrusion, Abandoned, Missing and so on, to quickly and accurately respond to monitoring events in specific area. It can enhance monitoring efficiency. In addition, the camera supports intelligent tamper detection,

- · Three 1/2.8" 2Megapixel progressive scan STARVIS™ CMOS
- · H.265/H.264 triple-stream encoding
- · Max 25/30fps@4096x832
- · Support 180-degree panoramic view
- · Day/Night(ICR), 3DNR, AWB, AGC, BLC, WDR
- $\cdot$  Smart detection
- Intelligent Function
- $\cdot$  Max. IR LEDs length 30m
- . Micro SD memory, IP67, IK10,PoE+



which is to generate warning message via detecting dramatic scene change and to guarantee effective video surveillance.

#### 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 30m (98ft).

#### Protection (IP67, IK10, wide voltage)

Supporting  $\pm 25\%$  input voltage tolerance, this camera suits even the most unstable conditions for outdoor applications. Its 6KV lightning rating provides effective protection for both the camera and its structure against lightning.IP67 is supported by the camera, which makes it suitable for both indoor and outdoor environments. IK10 compliance enables the camera to sustain the equivalent of 55 kg (120lbs) force.

#### Environmental

Standard Dahua camera can function from-30°C to +60°C(-22 °F to +140 °F) with 95% humility, meanwhile some models support heater module optional which allows the camera to function from-40°Cto +60°C (-40 °F to +140 °F). With a temperature range of-40 °C to +60 °C, the camera is designed for extreme temperature environments.



# Panoramic Series | DH-IPC-PFW8601-A180

# **Technical Specification**

-				
Camera				
Image Sensor	Three 1/2.8" 2Megapixel progressive scan CMOS			
Effective Pixels	4096(H)x832(V)			
RAM/ROM	1024MB/128MB			
Scanning System	Progressive			
Electronic Shutter Speed	Auto/Manual, 1/3~1/100000s			
Minimum Illumination	0.007Lux/F1.8( Color,1/3s,30IRE) 0.05Lux/F1.8( Color,1/30s,30IRE) 0Lux/F1.8(IR on)			
S/N Ratio	More than 50dB			
IR Distance	Distance up to 30m(98ft)			
IR On/Off Control	Auto/ Manual			
IR LEDs	8			
Lens				
Lens Type	Fixed			
Mount Type	Board-in			
Focal Length	3.6mm			
Max. Aperture	F1.8			
Angle of View	H: 180°, V:44°			
Optical Zoom	N/A			
Focus Control	Fixed			
Close Focus Distance	N/A			
	Detect	Observe	Recognize	Identify
DORI Distance	52m(171ft)	21m(69ft)	10m(33ft)	5m(16ft)
Pan/Tilt/Rotation				
Pan/Tilt/Rotation Range	Pan:0°~360°; Tilt:0°~90°; Rotation:0°~360°		50°	
Intelligence				
IVS	Tripwire, Intrusion, Object Abandoned/Missing		'Missing	
Advanced Intelligent Functions	Heat Map, E-PTZ			
Video				
Compression	H.265+/H.265/H.264+/H.264			
Streaming Capability	3 Streams			
Resolution	4096×832/3840×780/2560×520/ 1280×260/1024X208			
	Main Stream: 4096x832(1~25/30fps)			
Frame Rate	Sub Stream: 1024X208 (1 ~ 25/30fps)			
	Third Stream: 1280x260 (1 ~ 25/30fps)			
Bit Rate Control	CBR/VBR			
Bit Rate	H.265: 4Kbps~ 10Mbps			
Dit Nate	H.264: 8Kbp	s~ 16Mbps		

Day/Night	Auto(ICR) / Color / B/W	
BLC Mode	BLC / HLC / WDR(120dB)	
White Balance	Auto/Natural/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	
Defog	N/A	
Digital Zoom	16x	
Flip	N/A	
Mirror	N/A	
Privacy Masking	Off / On (4 Area, Rectangle)	
Audio		
Compression	G.711a/G.711Mu/AAC/ G.726	
Network		
Ethernet	RJ-45 (100/1000Base-T)	
Protocol	HTTP;HTTPs;TCP;ARP;RTSP;RTP;UDP;SMTP;FTP;DHC P;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	10 Users/20 Users	
Edge Storage	NAS Local PC for instant recording Mirco SD card 128GB	
Web Viewer	IE, Chrome, Firefox, Safari	
Management Software	Smart PSS, DSS, Easy4ip	
Smart Phone	IOS, Android	
Certifications		
Certifications	CE (EN 60950:2000) UL:UL60950-1 FCC: FCC Part 15 Subpart B	
Interface		
Video Interface	1 Port(For adjustment only)	
Audio Interface	1/1 channel In/Out	
RS485	N/A	
Alarm	2 channel In: 5mA 5VDC 1 channel Out: 1A 30VDC / 0.5A 50VAC	
Electrical		
Power Supply	AC24V, PoE+ (802.3at)(Class 4)	
Power Consumption	<23W	

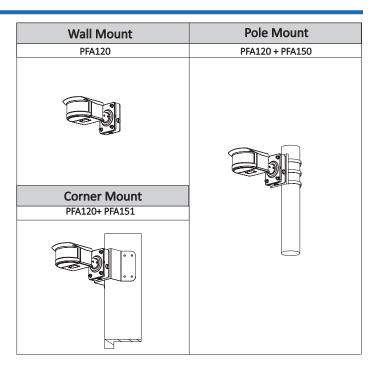
# Panoramic Series | DH-IPC-PFW8601-A180

#### Environmental

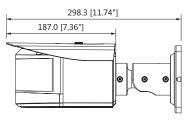
Operating Conditions	-40° C $^{\sim}$ +60° C (-40° F $^{\sim}$ +140° F) / Less than 95% RH
Strorage Conditions	-40° C $^{\sim}$ +60° C (-40° F $^{\sim}$ +140° F) / Less than 95% RH
Ingress Protection	IP67
Vandal Resistance	IK10
Construction	
Casing	Metal
Dimensions	298.3mm×172.5mm×120.5mm (11.74″×6.79″×4.74″)
Net Weight	2.60kg(5.73lb)
Gross Weight	3.41 kg(7.52lb)

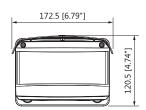
# **Ordering Information**

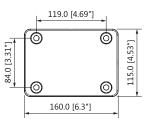
Туре	Part Number	Description	
3x2MP camera	DH-IPC- PFW8601P-A180	3x2MP Multi-Sensor Panoramic Network IR Bullet Camera,WDR, PAL	
	DH-IPC- PFW8601N-A180	3x2MP Multi-Sensor Panoramic Network IR Bullet Camera,WDR,NTSC	
	IPC- PFW8601P-A180	3x2MP Multi-Sensor Panoramic Network IR Bullet Camera,WDR, PAL	
	IPC- PFW8601N-A180	3x2MP Multi-Sensor Panoramic Network IR Bullet Camera,WDR,NTSC	
	PFA120	Juntion Box	
Accessories (optional)	PFA120+PFA150	Pole mount	
	PFA120+PFA151	Corner mount	



## Dimensions (mm/inch)







### Accessories

**Optional:** 



PFA120

Juntion Box



PFA150 Pole mount

PFA151 Corner mount



Rev 001.001 © 2017 Dahua. All rights reserved. Design and specifications are subject to change without notice.