

# DH-IPC-PDBW8802-A180

4x2MP Multi-Sensor Panoramic IR Dome Network Camera



## **System Overview**

The multi-sensor camera provides added flexibility for capturing wide area video surveillance. With four 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. With the field of view being divided across the four sensors, adjustments can be made to each sensor for contrast and brightness, resulting in a crystal-clear panorama.

# **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.

#### 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, 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

- · Four 1/1.9" 2Megapixel progressive scan CMOS
- · H.265/H.264 triple-stream encoding
- · Max 25fps@4096x1800
- · Support 180-degree panoramic view
- · Day/Night(ICR), 3DNR, AWB, AGC, BLC, WDR
- · Smart detection
- · Intelligent Function
- · Max. IR LEDs length 30m
- . Micro SD memory, IP67, IK10, PoE+













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).

#### Smart Codec (H.265+ & H.264+)

Smart Codec is the optimized implementation of standard video compression (H.265 & H.264) 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 Codec technology reduces bit rate and storage requirements by up to 70% when compared to the standard video compression.

### 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. Subjected and certified to rigorous dust and immersion tests (IP67) and impact tests (IK10), The camera complies with an IK10 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.)

## 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.



Technical Specification		Bit Rate Control	CBR/VBR	
Camera		Bit Rate	H.265: 9Kbps~ 9472Kbps H.264: 24Kbps~ 15616Kbps	
Image Sensor	Four 1/1.9" 2Megapixel progressive scan CMOS	Day/Night	Auto(ICR) / Color / B/W	
Effective Pixels	4096(H)x1800(V)	BLC Mode	BLC / HLC / WDR(120dB)	
RAM/ROM	1024MB/128MB	White Balance	Auto/Natural/Street Lamp/Outdoor/Manual	
Scanning System	Progressive	Gain Control	Auto/Manual	
Electronic Shutter Speed	Auto/Manual, 1/3~1/100000s	Noise Reduction	3D DNR	
Minimum Illumination	0.005Lux/F2.2( Color,1/3s,30IRE) 0.03Lux/F2.2( Color,1/30s,30IRE) 0Lux/F2.2(IR on)	Motion Detection	Off / On (4 Zone, Rectangle)	
S/N Ratio	More than 50dB	Region of Interest	Off / On (4 Zone)	
IR Distance	Distance up to 30m(98ft)	Electronic Image Stabilization(EIS)	N/A	
IR On/Off Control	Auto/ Manual	Smart IR	Support	
IR LEDs	6	Defog	N/A	
Lens		Digital Zoom	16x	
Lens Type	Fixed	Flip	N/A	
Mount Type	Board-in	Mirror	N/A	
Focal Length	5.0mm	Privacy Masking	Off / On (4 Area, Rectangle)	
Max. Aperture	F2.2	Audio		
Angle of View	H: 180°, V:80°	Compression	G.711a/G.711Mu/AAC/ G.726	
Optical Zoom	N/A	Network	Network	
Focus Control	Fixed	Ethernet	RJ-45 (100/1000Base-T)	
Close Focus Distance	N/A		HTTP;HTTPs;TCP;ARP;RTSP;RTP;UDP;RTCP;SMTP,FTP;DHCP;DNS;DDNS;PPPOE;IPv4/v6;QoS;UPnP;	
DORI Distance	Detect Observe Recognize Identify	Protocol	NTP;Bonjour;IEEE 802.1x;Multicast;ICMP;IGMP;SNMP;TLS	
	53m(178ft) 21m(69ft) 10m(33ft) 5m(17ft)	Interoperability	ONVIF Profile S&G, API	
Pan/Tilt/Rotation		Streaming Method	Unicast / Multicast	
Pan/Tilt/Rotation Range	Pan:0°~355°; Tilt:0°~75°; Rotation:±20°	Max. User Access	10 Users/20 Users	
Intelligence  Event Trigger	Motion detection, Video tampering , Scene changing, Network disconnection , IP address	Edge Storage	NAS Local PC for instant recording Mirco SD card 128GB	
	conflict, Illegal Access,Storage anomaly	Web Viewer	IE, Chrome, Firefox, Safari	
IVS	Tripwire, Intrusion, Object Abandoned/Missing	Management Software	Smart PSS, DSS, DMSS	
Advanced Intelligent Functions	Heat Map, E-PTZ	Smart Phone	IOS, Android	
Video		Certifications		
Compression	H.265/H.264/H.264B/H.264H/MJPEG(Sub Stream)	Certifications	CE (EN 60950:2000) UL:UL60950-1	
Smart Codec	Support H.265+/H.264+	GCI WIIIGUROIIS	FCC: FCC Part 15 Subpart B	
Streaming Capability	3 Streams	Interface		
Resolution	4096×1800/3840×1680/2880×1264/ /1920x832/1280x560/1024X452	Video Interface	1 Port(For adjustment only)	
	Main Stream: 4096x1800 (1~25fps)	Audio Interface	1/1 channel In/Out	
Frame Rate	Sub Stream: 1024X452 (1 ~ 25fps)	RS485	N/A	
Traine Nate	Third Stream: 1920x832 (1 ~ 25fps)	Alarm	2 channel In: 5mA 5VDC 2 channel Out: 1A 30VDC / 0.5A 50VAC	
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## Electrical

Power Supply	AC24V, PoE+(802.3at)(Class 4)		
Power Consumption	<25.5W		
Environmental			
Operating Conditions	-40° C $^{\sim}$ +60° C (-40° F $^{\sim}$ +140° F) / Less than 95% RH		
Storage 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	Φ212mm×169.5mm(Φ8.35"×6.67")
Net Weight	3.6kg(7.9lb)
Gross Weight	4.6kg(10.1lb)

Ordering Information				
Туре	Part Number	Description		
4x2MP camera	DH-IPC- PDBW8802P-A180	4x2MP Multi-Sensor Panoramic IR Dome Network Camera, PAL		
	DH-IPC- PDBW8802N-A180	4x2MP Multi-Sensor Panoramic IR Dome Network Camera,NTSC		
	IPC- PDBW8802P-A180	4x2MP Multi-Sensor Panoramic IR Dome Network Camera, PAL		
	IPC- PDBW8802N-A180	4x2MP Multi-Sensor Panoramic IR Dome Network Camera,NTSC		
Accessories (included)	PFA111	Mount Adapter		
Accessories (optional)	PFA140	Power Box		
	PFB300C	Ceiling Mount		
	PFA120	Junction Box		
	PFA150	Pole Mount		
	PFA151	Corner Mount		
	PFB303S	Parapet Mount		
	PFB303W	Wall Mount		

### Optional:







PFA150 Pole Mount



PFB300C Ceiling Mount



PFA151 Corner Mount



Junction Box





Wall Mount



PFB303S Parapet Mount

Ceiling Mount	Junction Mount
PFA111 + PFB300C	PFA111 + PFB303W + PFA120
Power Box Mount	Pole Mount
PFA111 + PFB303W + PFA140	PFA111 + PFB303W + PFA150
Corner Mount	Parapet Mount
PFA111+ PFB303W + PFA151	PFA111+ PFB303S

## **Accessories**

Included:



Mount Adapter

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# Dimensions (mm/inch)





