

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 1/1.8" 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
- \cdot Smart detection
- Intelligent Function
- \cdot 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.



Panoramic Series | DH-IPC-PDBW8802-A180

Technical Specification

Technical Specification				
Camera				
Image Sensor	Four 1/1.8" 2Megapixel progressive scan CMOS			
Effective Pixels	4096(H)x1800(V)			
RAM/ROM	1024MB/128MB			
Scanning System	Progressive			
Electronic Shutter Speed	Auto/Manua	al, 1/3~1/100	000s	
Minimum Illumination		2.2(Color,1/3 2(Color,1/30 R on)		
S/N Ratio	More than 5	OdB		
IR Distance	Distance up	to 30m(98ft)		
IR On/Off Control	Auto/ Manu	al		
IR LEDs	6			
Lens				
Lens Type	Fixed			
Mount Type	Board-in			
Focal Length	5.0mm			
Max. Aperture	F2.2			
Angle of View	H: 180°, V:80°			
Optical Zoom	N/A			
Focus Control	Fixed			
Close Focus Distance	N/A			
DORI Distance	Detect 53m(178ft)	Observe 21m(69ft)	Recognize 10m(33ft)	Identify 5m(17ft
Pan/Tilt/Rotation				
Pan/Tilt/Rotation Range	Pan:0°~355°;	; Tilt:0°~75°; R	otation:±20°	
Intelligence				
Event Trigger	Motion detection, Video tampering , Scene changing, Network disconnection , IP address conflict, Illegal Access, Storage anomaly			
IVS	Tripwire, Intrusion, Object Abandoned/Missing			
Advanced Intelligent Functions	Heat Map, E-PTZ			
Video				
Compression	H.265/H.264/H.264B/H.264H/MJPEG(Sub Stream)			
Smart Codec	Support H.265+/H.264+			
Streaming Capability	3 Streams			
Resolution	4096×1800/3840×1680/2880×1264/ /1920x832/1280x560/1024X452			
		1006 1000	(1~25fns)	
	Main Stream	n: 4096x1800	(1 25105)	
Frame Rate		1024X452 (1		

Bit Rate Control	CBR/VBR
Bit Rate	H.265: 9Kbps~ 9472Kbps H.264: 24Kbps~ 15616Kbps
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 Detection	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;RTCP;SMTP; FTP;DHCP;DNS;DDNS;PPPOE;IPv4/v6;QoS;UPnP; NTP;Bonjour;IEEE 802.1x;Multicast;ICMP;IGMP;S NMP;TLS
Interoperability	ONVIF Profile S&G, API
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, DMSS
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 2 channel Out: 1A 30VDC / 0.5A 50VAC

Panoramic Series | DH-IPC-PDBW8802-A180

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)

4.6kg(10.1lb)

Ordering Information

Gross Weight

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:

PFA140

Power box

PFA150 Pole Mount

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PFA120

Junction Box



PFB303W Wall Mount











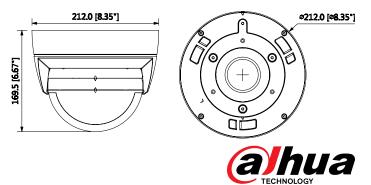


PFA151 Corner Mount

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

Dimensions (mm/inch)



Accessories

Included:



PFA111 Mount Adapter

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