

DH-IPC-PDBW8800-A180

4x2MP Multi-Sensor Panoramic Network IR Dome 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. 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.

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 1/2.8" 2Megapixel progressive scan STARVIS™ CMOS
- · H.265/H.264 triple-stream encoding
- · Max 25fps@4096x1800
- · Support 180-degree panoramic view
- · Day/Night(ICR), 3DNR, AWB, AGC, BLC
- · 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 H.265+

Deliver high quality video without straining the network, Smart H.265+ is the optimized implementation of H.265. The Smart H.265+ encoding technology includes a scene adaptive encoding strategy, dynamic GOP, dynamic ROI, flexible multi-frame reference structure and intelligent noise reduction, providing saving of up to 70% of bandwidth and storage when compared with standard H.265.

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.



Technical Specification					Day/Night	Auto(ICR) / Color / B/W
Camera				BLC Mode	BLC / HLC / DWDR	
Image Sensor	Four 1/2.8" 2Megapixel progressive scan CMOS				White Balance	Auto/Natural/Street Lamp/Outdoor/Manual
Effective Pixels	4096(H)x1800(V)				Gain Control	Auto/Manual
RAM/ROM	1024MB/128MB				Noise Reduction	3D DNR
Scanning System	Progressive				Motion Detetion	Off / On (4 Zone, Rectangle)
Electronic Shutter Speed	Auto/Manual, 1/3~1/100000s				Region of Interest	Off / On (4 Zone)
Minimum Illumination	0.007Lux/F2.0(Color,1/3s,30IRE) 0.05Lux/F2.0(Color,1/30s,30IRE) 0Lux/F2.0(IR on)				Electronic Image Stabilization(EIS)	N/A
S/N Ratio	More than 50dB				Smart IR	Support
IR Distance	Distance up to 30m(98ft)				Defog	N/A
IR On/Off Control	Auto/ Manual				Digital Zoom	16x
IR LEDs	6				Flip	N/A
Lens					Mirror	N/A
Lens Type	Fixed				Privacy Masking	Off / On (4 Area, Rectangle)
Mount Type	Board-in				Audio	
Focal Length	3.0mm				Compression	G.711a/G.711Mu/AAC/ G.726
Max. Aperture	F2.0				Network	
Angle of View	H: 180°, V:80°				Ethernet	RJ-45 (100/1000Base-T)
Optical Zoom	N/A				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
Focus Control	Fixed				Interoperability	ONVIF, PSIA, CGI
Close Focus Distance	N/A				Streaming Method	Unicast / Multicast
DORI Distance		Observe	Recognize	Identify	Max. User Access	10 Users/20 Users
Pan/Tilt/Rotation	41m(135ft)	16m(53ft)	8m(26ft)	4m(13ft)	Edge Storage	NAS Local PC for instant recording Mirco SD card 128GB
Pan/Tilt/Rotation Range	Pan:0°~355°;	Tilt:0°~75°; R	lotation:±20°		Web Viewer	IE, Chrome, Firefox, Safari
Intelligence					Management Software	Smart PSS, DSS, Easy4ip
IVS	Tripwire, Intrusion, Object Abandoned/Missing				Smart Phone	IOS, Android
Advanced Intelligent Functions	Heat Map, E-PTZ				Certifications	
Video Compression	H.265+/H.265	5/H.264+/H.:	264		Certifications	CE (EN 60950:2000) UL:UL60950-1 FCC: FCC Part 15 Subpart B
Streaming Capability	3 Streams				Interface	rec. rec rait 13 Subpart B
	4096×1800/3	3840×1680/	2880×1264/		Video Interface	1 Port(For adjustment only)
Resolution	4096×1800/3840×1680/2880×1264/ /1920x832/1280x560/1024X452				Audio Interface	1/1 channel In/Out
	Main Stream:	: 4096x1800	(1~25fps)		RS485	N/A
Frame Rate	Sub Stream: 1	1024X452 (1	~ 25/30fps)		Alarm	2 channel In: 5mA 5VDC
	Third Stream:	: 1920x832 (:	1 ~ 25/30fps)			2 channel Out: 1A 30VDC / 0.5A 50VAC
Bit Rate Control	CBR/VBR				Electrical	
Bit Rate	H.265: 9Kbps~ 9472Kbps H.264: 24Kbps~ 15616Kbps				Power Supply	AC24V, PoE+(802.3at)(Class 4)
	11.204. 24KDP	2 TOOTOVD	μ3		Power Consumption	<25.5W

Environmental

Operating Conditions	-40° C $^{\sim}$ +60° C (-40° F $^{\sim}$ +140° F) / Less than 95% RH
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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 Type Part Number Description DH-IPC-4x2MP Multi-Sensor Panoramic PDBW8800P-A180 Network IR Dome Camera, PAL DH-IPC-PDBW8800N-A180 4x2MP Multi-Sensor Panoramic Network IR Dome Camera,NTSC 4x2MP camera 4x2MP Multi-Sensor Panoramic PDBW8800P-A180 Network IR Dome Camera, PAL IPC-PDBW8800N-A180 4x2MP Multi-Sensor Panoramic Network IR Dome Camera,NTSC Accessories PFA111 Mount Adapter (included) PFA140 Power Box PFB300C Ceiling Mount PFA120 Junction Box Accessories PFB303W (optional) Wall Mount PFA150 Pole Mount PFA151 Corner Mount PFB303S Parapet Mount

Optional:







PFA150



PFB300C Ceiling Mount



PFA151





PFB303S



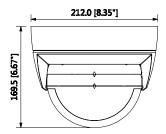
PFB303W

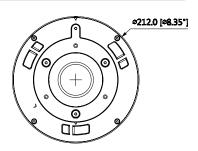


Parapet Mount

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