

# IPC-D2B20 2MP IR Mini-Dome Network Camera



#### System Overview

Dahua is perfect for small to medium size applications like home/ residential security, small retail shops, and other typical SMB applications. It offers a perfect alternative to migrate from analog to an IP system with its easy to use nature and cost effectiveness.

Dahua is fully in line with Dahua's quality. Stable and reliable components are utilized and Various tests such as anti-vibration, water resistance, and aging tests are performed to ensure Dahua quality standards.

## Functions

#### 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.

#### 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

#### Regions of interest

Regions of Interest (ROI) is a user defined feature that allows the operator to monitor specific areas of a scene while still maintaining overall situational awareness of less important areas

#### Smart IR

With IR illumination, detailed images can be captured in low light or total darkness. The camera's Smart IR technology adjusts to the intensity of camera's infrared LEDs to compensate for the distance of an object. Smart IR technology prevents IR LEDS from whiting out images as they come closer to the camera. The camera's integrated infrared illumination

- · 1/2.7" 2Megapixel progressive CMOS
- · H.265+ & H.265 dual-stream encoding
- · 25/30fps@1080P(1920x1080)
- · DWDR, Day/Night(ICR), 3DNR, AWB, AGC, BLC
- $\cdot$  Multiple network monitoring: Web viewer, CMS(DSS/PSS) & DMSS
- · 2.8 mm fixed lens (3.6 mm optional)
- · Max IR LEDs Length 30m
- · IP67, PoE



provides high performance in extreme low-light environments up to 30m (98ft).

#### Image flip

Capturing unnecessary data such as surrounding hallway walls can increase storage requirements without any added value. The image flip feature allows the camera's image to be rotated in 90° increments for better video optimization.

#### Environmental

Dahua cameras operate in extreme temperature environments, rated for use in temperatures from-30° C to +60° C (-22° F to +140° F) with 95% humidity.

#### Protection (IP67, wide voltage)

The camera allows for  $\pm 25\%$  input voltage tolerance, suitable for the most unstable conditions for outdoor applications. Its 2KV lightning rating provides effective protection for both the camera and its structure against lightning. Subjected and certified to rigorous dust and immersion tests (IP67).

#### Interoperability

The camera conforms to the ONVIF (Open Network Video Interface Forum) specifications, ensuring interoperability between network video products regardless of manufacturer.



# **Technical Specification**

Camera					
Image Sensor		1/2.7" 2Megapixel progresive CMOS			
Effective Pixels		1920(H)x1080(V)			
RAM/ROM		64MB/16MB			
Scanning System		Progressive			
Electronic Shutter Speed		Auto/Manual, 1/3~1/100000s			
Minimum Illumination		0.09Lux/F2.0(Color,1/3s,30IRE) 0.5Lux/F2.0(Color,1/30s,30IRE) 0Lux/F2.0(IR on)			
S/N Ratio		More than 50dB			
IR Distance		Distance up to 30m(98ft)			
IR On/Off Control		Auto/ Manual			
IR LEDs		1			
Lens					
Lens Type		Fixed			
Mount Type		Board-in			
Focal Length		2.8 mm (3.6 mm optional)			
Max. Aperture		F2.0/F2.0			
Angle of View		H:115°/87.5°, V:60°/47°			
Focus Control		Fixed			
Close Focus Distance		0.6m(1.97ft)			
DORI Distance	Lens	Detect	Observe	Recognize	Identify
	2.8 mm	43.5m(143ft)	17.4m(57ft)	8.7m(28.5ft)	4.3m(14ft)
	3.6 mm	53.3m(175ft)	21.3m(70ft)	10.7m(35ft)	5.3m(17ft)
PTZ					
Pan/Tilt Range		Pan:0° ~355° ;Tilt:0° ~75° ;Rotation:0° ~355°			
Video					

Video				
Compression	H.265/H.264H/MJPEG(Sub Stream)			
Smart Codec	Support H.265+/H.264+			
Streaming Capability	2 Streams			
Resolution	1080P(1920×1080)/1.3M(1280×960)/ 720P(1280×720)/D1(704×576/704×480)/ VGA(640×480), CIF(352×288/352×240)			
5	Main Stream: 1080P (1 ~ 25/30fps)			
Frame Rate	Sub Stream: D1(1 ~ 25/30fps)			
Bit Rate Control	CBR/VBR			
Bit Rate	H265:12K~6400K H.264:32K ~8192K			
Day/Night	Auto(ICR) / Color / B/W			
BLC Mode	BLC / HLC / DWDR			

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			
Digital Zoom	16x			
Flip	0°/90°/180°/270°			
Mirror	Off / On			
Privacy Masking	Off / On (4 Area, Rectangle)			
Audio				
Compression	N/A			
Network				
Ethernet	RJ-45 (10/100Base-T)			
Protocol	HTTP;TCP;ARP;RTSP;RTP;RTCP;UDP;DHCP;DNS;IPV4; NTP;Multicas; ICMP; IGMP			
Interoperability	ONVIF Profile S			
Streaming Method	Unicast / Multicast			
Max. User Access	10 Users/20 Users			
Edge Storage	N/A			
Web Viewer	IE, Chrome, Firefox, Safari			
Management Software	Smart PSS, DSS, DMSS			
Smart Phone	IOS, Android			
Certifications				
Certifications	CE: (EN 60950:2000) FCC: FCC Part 15 Subpart B			
Interface				
Video Interface	N/A			
Audio Interface	N/A			
RS485	N/A			
Alarm	N/A			
Electrical				
Power Supply	DC12V, PoE (802.3af)(Class 0)			
Power Consumption	<5.1W			

# | IPC-D2B20

Environmental
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Operating Conditions	-30° C $^{\sim}$ +60° C (-22° F $^{\sim}$ +140° F) / Less than 95% RH		
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Ingress Protection	IP67		
Vandal Resistance	N/A		
Construction			
Casing	Plastic		
Dimensions	Ф122mm × 98.1mm (4.8" x3.86")		
Net Weight	0.35Kg (0.77lb)		
Gross Weight	0.49Kg (1.08lb)		

#### **Ordering Information**

Туре	Part Number	Description	
2MP Camera	IPC-D2B20P-0280B	2MP IR Mini-Dome Network Camera, 2.8mm,PAL	
	IPC-D2B20N-0280B	2MP IR Mini-Dome Network Camera, 2.8mm,NTSC	
	IPC-D2B20P-0360B	2MP IR Mini-Dome Network Camera, 3.6mm,PAL	
	IPC-D2B20N-0360B	2MP IR Mini-Dome Network Camera, 3.6mm,NTSC	
Accessories (optional)	PFA137	Junction box	
	PFB203W	Wall mount	
	PFA152-E	Pole mount	
	PFA106	Ceiling mount	
	PFB220C	Ceiling mount	
	PFA200W	Rain Shade	

## Accessories

#### **Optional:**





PFA152-E

Pole mount



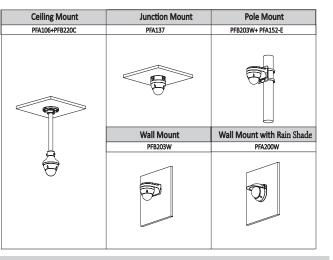
PFA106 Ceiling Mount

PFA130-E Junction Box

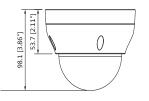
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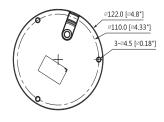


PFB220C Ceiling Mount PFA200W Rain Shade



### Dimensions (mm/inch)







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