

# IPC-CB2C20-ZS-2812

## 2 MP IR Mini-Bullet Network Camera



### PRODUCT OVERVIEW

Cooper IP Series 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. Cooper IP Series 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.

### FEATURES

- 1/2.7" 2 Megapixel progressive CMOS
- H.265+ & H.265 dual-stream encoding
- 25/30 fps @ 1080P (1920×1080)
- DWDR, Day/Night (ICR), 3DNR, AWB, AGC, BLC
- Multiple network monitoring: Web viewer, CMS (DSS/PSS) & DMSS
- 2.8~12 mm varifocal lens
- Max IR LEDs Length 40 m
- Micro SD card memory, IP67, PoE

### 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 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 30 m (98 ft).

#### 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 ±25% input voltage tolerance, suitable for the most unstable conditions for outdoor applications. Its 2 kV 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

## Technical Specification

Camera	H.265/H.264H/MJPEG (Sub Stream)
Image Sensor	1/2.7" 2 Megapixel progressive CMOS
Effective Pixels	1920 (H) × 1080 (V)
RAM/ROM	64MB/16 MB
Scanning System	Progressive
Electronic Shutter Speed	Auto/Manual, 1/3~1/100000 s
Minimum Illumination	0.05 lx; f/1.8 (Color, 1/3 s,30IRE) 0.3 lx; f/1.8 (Color, 1/30 s,30IRE) 0 lx; f/1.8 (IR on)
S/N Ratio	More than 40dB
IR Distance	Distance up to 40 m (131 ft)
IR On/Off Control	Auto/Manual
IR LEDs	2

## Lens

Lens Type	Motorized				
Mount Type	Board-in				
Focal Length	2.8 mm~12 mm				
Max. Aperture	f/1.8				
Angle of View	H: 105°~33°, V: 56°~18°				
Focus Control	Motorized				
Close Focus Distance	0.2 m (0.66 ft)				
DORI distance	Lens	Detect	Observe	Recognize	Identify
	W	44 m	17.6 m	8.8 m	4.4 m
	T	133 m	53 m	27 m	13 m

## PTZ

Pan/tilt range	Pan: 0°~360°; Tilt: 0°~90°; Rotation: 0°~360°
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## Intelligence

Event Trigger	Motion detection, Video tampering, Network disconnection, Scene change, IP address conflict, Illegal Access, Storage anomaly
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## Video

Compression	H.265/H.264/H.264B/MJPEG (Sub Stream)
Smart Codec Support	H.265+/H.264+
Streaming Capability	2 Streams
Resolution	1080P (1920×1080); 1.3 M (1280×960); 720P (1280×720); VGA (640×480); D1 (704×576/704×480); CIF (352×288/352×240)
Frame Rate	Main Stream: 1080P (1~25/30 fps) Sub Stream: D1 (1~25/30 fps)
Bit Rate Control	CBR/VBR
Bit Rate	H.264: 16K~6144K H.265: 6K~6144K
Day/Night	Auto (ICR)/Color/b/w
BLC Mode	BLC/HLC/DWDR
White Balance	Auto/Natural/Street Lamp/Outdoor/Manual
Gain Control	Auto/Manual

## Video

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
Digital Zoom	16×
Flip	0°/90°/180°/270°
Mirror	Off/On
Privacy Masking	Off/On (4 Area, Rectangle)

## Network

Ethernet	RJ-45 (10/100Base-T)
Protocol	HTTP; HTTPS; TCP; ARP; RTSP; RTP; RTCP; UDP; SMTP; FTP; DHCP; DNS; DDNS; PPPoE; IPv4/v6; QoS; UPnP; NTP; Bonjour; IEEE 802.1X; Multicast; ICMP; IGMP; TLS; SSH
Interoperability	ONVIF Profile S&G, API
Streaming Method	Unicast/Multicast
Max. User Access	10 Users/20 Users
Edge Storage	NAS (Network Attached Storage) Local PC for instant recording Micro SD Card 128 GB
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
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## Electrical

Power Supply	DC 12 V, PoE (802.3af) (Class 0)
Power Consumption	DC 12 V: 1.8 W, 5.8 W (IR On) PoE: 2.1 W, 6.7 W (IR On)

## Environmental

Operating Conditions	-30°C ~ +60°C (-22°F ~ +140°F)/Less than 95% RH
Storage Conditions	-30°C ~ +60°C (-22°F ~ +140°F)/Less than 95% RH
Ingress Protection	IP67

## Construction

Casing	Metal+Plastic
Dimensions	243.6 × 90.7 × 90.2 mm (9.59 × 3.57 × 3.55")
Net Weight	0.434 kg (0.957 lb)
Gross Weight	0.693 kg (1.53 lb)

ACCESSORIES



PFA130-E



PFA151

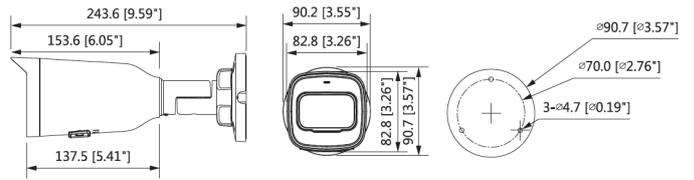


PFA152-E

Accessories

PFA130-E	Water-proof Junction Box
PFA151	Corner Mount Bracket
PFA152-E	Pole Mount Bracket

DIMENSIONS (MM)



Junction mount	Pole mount
<b>PFA130-E</b>	<b>PFA130-E + PFA152-E</b>
<b>Corner mount</b>	
<b>PFA130-E + PFA151</b>	