

# IPC-B1A20

# 2MP IR Mini-Bullet Network Camera



# **System Overview**

The EZ-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.

The EZ-IP series is fully in line with Dahua's quality assurance protocol. Various tests such as anti-vibration, water resistance, and aging tests are performed to ensure Dahua quality standards.

### **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

### 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 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.

- · 1/2.9" 2Megapixel progressive CMOS
- · H.264+ & H.264 dual-stream encoding
- · 25/30fps@1080P(1920×1080)
- · DWDR, Day/Night(ICR), 3DNR, AWB, AGC, BLC
- $\cdot$  Multiple network monitoring: Web viewer, CMS(DSS/PSS) & DMSS
- · 2.8 mm fixed lens (3.6mm optional)
- · Max IR LEDs Length 30m
- · IP67, PoE









#### Protection

Supporting  $\pm 10\%$  input voltage tolerance, this camera suits even the most unstable conditions for outdoor applications. Its 6KV lightning rating provides protectection against the camera and its structure from the effects of lightning.

### Interoperability

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

# Smart H.264+

Delivering high quality video without straining the network, Smart H.264+ is the optimized implementation of H.264. The Smart H.264+ encoding platform includes a scene adaptive encoding strategy, dynamic GOP, dynamic ROI, flexible multi-frame reference structure and intelligent noise reduction, providing a savings of up to 70% of bandwidth and storage when compared with standard H.264.



<b>Technical Specification</b>		
Camera		
Image Sensor	1/2.9" 2Megapixel progresive CMOS	
Effective Pixels	1920(H) x1080(V)	
RAM/ROM	128MB/16MB	
Scanning System	Progressive	
Minimum Illumination	0.1Lux/F2.0(Color), 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	18	
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:105.5°/83°, V:57°/44°	
Focus Control	Fixed	
Close Focus Distance	N/A	
PTZ		
Pan/Tilt Range	Pan:0° ~360° ;Tilt:0° ~90° ;Rotation:0° ~360°	
Video		
Compression	H.264+/H.264	
Streaming Capability	2 Streams	
Resolution	1080P(1920×1080)/720P(1280×720)/ D1(704×576/704×480)/CIF(352×288/352×240)	
	2M (1 ~ 25/30fps)s)	
Frame Rate	D1/CIF(1 ~ 25/30fps)	
Bit Rate Control	CBR/VBR	
Bit Rate	H264:24K ~ 8192Kbps	
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;UDP;RTCP;SMTP;FTP;DHCP;DNS;DDNS;PPPOE;IPv4/v6;SNMP;QoS;UPnP;NTP	
Interoperability	ONVIF, PSIA, CGI	
Streaming Method	Unicast / Multicast	
Max. User Access	10 Users/20 Users	
Edge Storage	NAS(Network Attached Storage) Local PC for instant recording	
Web Viewer	IE, Chrome, Firefox, Safari	
Management Software	Smart PSS, DSS,Easy4ip	
Smart Phone	iPhone, iPad, Android Phone	
Certifications		
Certifications	CE (EN 60950:2000) UL:UL60950-1 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	<4.2W	

# Environmental

Operating Conditions	-30° C $^{\sim}$ +60° C (-22° F $^{\sim}$ +140° F) / Less than 95% RH
Strorage Conditions	-30° C ~ +60° C (-22° F ~ +140° F) / Less than 95% RH
Ingress Protection	IP67
Vandal Resistance	N/A

# Construction

Casing	Metal+Plastic
Dimensions	Φ70mm×164.7mm(2.76''x6.49'')
Net Weight	0.38Kg(0.84lb)
Gross Weight	0.44Kg(0.97lb)

Ordering Information				
Туре	Part Number	Description		
2MP Camera	IPC-B1A20P-0280B	2MP IR Mini-Bullet Network Camera, 2.8mm,PAL		
	IPC-B1A20N-0280B	2MP IR Mini-Bullet Network Camera, 2.8mm, NTSC		
	IPC-B1A20P-0360B	2MP IR Mini-Bullet Network Camera, 3.6mm,PAL		
	IPC-B1A20N-0360B	2MP IR Mini-Bullet Network Camera, 3.6mm,NTSC		
Accessories (optional)	PFA134	Junction box		
	PFA150	Pole mount		
	PFA151	Corner mount		

# Accessories

# Optional:







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PFA150 Pole Mount

PFA151 Corner Mour

Corner Mount	Pole Mount
PFA134 + PFA151	PFA134 + PFA150
Junction Mount	
PFA134	

# Dimensions (mm/inch)



