

IPC-B4300T-Z

4MP IR Bullet Network Camera

POLICE
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- 1/3" 4Megapixel progressive CMOS
- H.265+ & H.265 dual-stream encoding
- 20fps@4MP(2560×1440) & 25/30fps@3M(2304×1296)
- DWDR, Day/Night(ICR), 3DNR, AWB, AGC, BLC
- Multiple network monitoring: Web viewer, CMS(DSS/PSS) & DMSS
- 2.8~12mm varifocal lens
- Max IR LEDs Length 60m
- Micro SD card memory, IP67, PoE



System Overview

The IR Megapixel Fixed camera delivers 4MP resolution with a 2.8mm~12mm varifocal lens. The camera's elegant blend of aesthetics combined with a range of easy mounting solutions provides an excellent choice for a variety of small to mid-size applications at an affordable price.

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 Technology

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 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 50m.

Protection (IP67, wide voltage)

The camera allows for $\pm 25\%$ input voltage tolerance, suitable for 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), the camera is the choice for installation in even the most unforgiving environments.

Environmental

POLICEtech cameras operate in extreme temperature environments, rated for use in temperatures from -30°C to $+60^{\circ}\text{C}$ with 95% humidity.

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.

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	1/3" 4Megapixel progressive CMOS
Effective Pixels	2560(H)×140(V), 4MP
RAM/ROM	256MB/16MB
Scanning System	Progressive
Electronic Shutter Speed	Auto/Manual, 1/3~1/100000s
Minimum Illumination	0.05Lux/F1.8(Color,1/3s,30IRE) 0.3Lux/F1.8(Color,1/30s,30IRE) 0Lux/F1.8(IR on)
S/N Ratio	More than 50dB
IR Distance	Up to 60m
IR On/Off Control	Auto / Manual
IR LEDs	4

Lens

Lens Type	Motorized				
Mount Type	Board-in				
Focal Length	2.8mm~12mm				
Max Aperture	F1.8				
Angle of View	H:94°~33°, V:51°~19°				
Optical Zoom	4x				
Focus Control	Fixed				
Close Focus Distance	0.2m				
DORI Distance	Lens	Detect	Observe	Recognize	Identify
	W	66 m	26.4 m	13.2 m	6.6 m
	T	200	80 m	40 m	20m

Video

Compression	H.265/H.264H/MJPEG(Sub Stream)
Smart Codec	Support H.265+/H.264+
Streaming Capability	2 Streams
Resolution	4M(2560×1440)/3M(2304×1296) / 1080P(1920×1080) / 1.3M(1280×960) / 720P(1280×720) / VGA(640×480) / D1(704×576/704×480) / CIF(352×288/352×240)
Frame Rate	Main Stream: 4M(1 ~ 20fps) Sub Stream: D1(1 ~ 25/30fps)
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
Noise Reduction	3D DNR
Motion Detection	Off / On (4 Zone, Rectangle)
Region of Interest	Off / On (4 Zone)
Smart IR	Support
Digital Zoom	16x
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;IMP;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 128GB
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
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Electrical

Power Supply	DC12V, PoE (802.3af)(Class 0)
Power Consumption	< 8W