

IPC-T1B20

2MP IR Turret Network Camera



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









System Overview

EZ-IP 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.

EZ-IP 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 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 ±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			
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 Dista	ance	0.5m(1.64ft)			
	Lens	Detect Observe Recognize Identify			Identify
DORI Distance	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(17.4ft)
PTZ					
Pan/Tilt Range		Pan:0° ~360° ;Tilt:0° ~90° ;Rotation:0° ~360°			
Video					
Compression		H.265/H.264H/MJPEG(Sub Stream)			
Smart Codec		Support H.265+/H.264+			
Streaming Capab	oility	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)			
Eramo Pato	Frame Rate		Main Stream: 1080P (1 ~ 25/30fps)		
rranie nale			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; TLS
Interoperability	ONVIF Profile S&G
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	<4.8W

Environmental

Operating Conditions	-30° C ~ +60° C (-22° F ~ +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	Ф109mm×85.5mm(4.29"x3.36")
Net Weight	0.24Kg(0.53lb)
Gross Weight	0.36Kg(0.79lb)

Ordering Information				
Туре	Part Number	Description		
2MP Camera	IPC-T1B20P-0280B	2MP IR turret Network Camera, 2.8mm,PAL		
	IPC-TB20N-0280B	2MP IR turret Network Camera, 2.8mm, NTSC		
	IPC-T1B20P-0360B	2MP IR turret Network Camera, 3.6mm,PAL		
	IPC-T1B20N-0360B	2MP IR turret Network Camera, 3.6mm,NTSC		
Accessories (optional)	PFA130-E	Junction box		
	PFA152-E	Pole mount		
	PFA151	Corner mount		
	PFB203W	Wall mount		
	PFA106	Ceiling mount		
	PFB220C	Ceiling mount		

Accessories

Optional:







PFA152-E

PFA130-E Junction Box



PFB203W

Wall mount



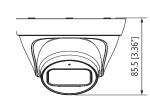
PFA151 Cornermount

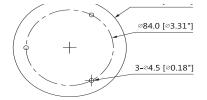
PFA106

PFB220C Ceiling mount Ceiling mount

Corner Mount	Junction Mount	Pole Mount
PFA151+PFB203W	PFA130-E	PFA152-E+ PFB203W
Ceiling Mount	Wall Mount	
PFA106 + PFB220C	PFB203W	

Dimensions (mm/inch)





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