# IPC-T4F

# 4MP WDR IR Eyeball Network Camera



- · 1/3" 4Megapixel progressive CMOS
- · H.265& H.264 dual-stream encoding
- · 20fps@4M(2688×1520) &25/30fps@3M(2304×1296)
- · WDR(120dB), Day/Night(ICR), 3DNR, HLC, 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









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

provides high performance in extreme low-light environments up to 30m

closer to the camera. The camera's integrated infrared illumination



#### **System Overview**

The IR Megapixel Fixed camera delivers 4MP resolution with a 2.8mm/ 3.6mm fixed 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.

#### Intelligent Video Analysis (IVS)

Dahua camera is equipped with a built-in intelligent analytic algorithm based on video, which can realize intelligent functions like Tripwire and Intrusion, to quickly and accurately respond to monitoring events in specific area, It can enhance monitoring efficiency. In addition, the camera supports intelligent tamper detection, which is to generate warning message via detecting dramatic scene change and to guarantee effective video surveillance.

#### Wide Dynamic Range (WDR)

The camera achieves vivid images, even in the most intense contrast lighting conditions, using industry-leading wide dynamic range (WDR) technology. For applications with both bright and low lighting conditions that change quickly, true WDR (120 dB) optimizes both the bright and dark areas of a scene at the same time to provide usable video.

# (98ft). 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) , the camera is the choice for installation in even the most unforgiving environments.

#### 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.

#### 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.

#### Smart IR Technology

With IR illumination, detailed images can be captured in low light or



Technical Specification						Bit Rate	H.265: 12K ~ 8448Kbps H.264: 32K ~ 10240Kbps
Camera						Day/Night	Auto(ICR) / Color / B/W
Image Sensor		1/3" 4Megapixel progresive CMOS				BLC Mode	BLC / HLC / WDR(120dB)
Effective Pixels		2688(H) x1520(V)				White Balance	Auto/Natural/Street Lamp/Outdoor/Manual
RAM/ROM		512MB/32MB				Gain Control	Auto/Manual
Scanning System		Progressive				Noise Reduction	3D DNR
Electronic Shutter Speed		Auto/Manual, 1/3~1/100000s				Motion Detection	Off / On (4 Zone, Rectangle)
Minimum Illumination		0.08Lux/F2.0( Color,1/3s,30IRE) 0.3Lux/F2.0( Color,1/30s,30IRE) 0Lux/F2.0(IR on)				Region of Interest	Off / On (4 Zone)
S/N Ratio		More than 50 d	В			Electronic Image Stabilization (EIS)	N/A
IR Distance		Distance up to 30m(98ft)				Smart IR	Support
IR On/Off Contro	ol	Auto/ Manual				Digital Zoom	16x
IR LEDs		12				Flip	0°/90°/180°/270°
Lens						Mirror	Off / On
Lens Type		Fixed				Privacy Masking	Off / On (4 Area, Rectangle)
Mount Type		Board-in				Audio	
Focal Length		2.8 mm (3.6 mm optional)				Compression	N/A
Max. Aperture		F2.0/F2.0				Network	
Angle of View		H:104°/87°, V:57°/48°				Ethernet	RJ-45 (10/100Base-T)
Focus Control  Close Focus Distance		Fixed N/A				Protocol	HTTP;HTTPS;TCP;ARP;RTSP;RTP;RTCP;UDP;SMTP; FTP;DHCP;DNS;DDNS;PPPoE;IPV4/V6;Qo5;UPnP; NTP;Bonjour;IEEE 802.1X;Multicast;ICMP;IGMP;TLS
	Lens	Detect	Observe	Recognize	Identify	Interoperability	ONVIF Profile S&G, API
DORI Distance	2.8 mm	63(207ft)	25(82ft)	13(43ft)	6(20ft)	Streaming Method	Unicast / Multicast
	3.6 mm	80(262ft)	32(105ft)	16(52ft)	8(26ft)	Max. User Access	10 Users / 20 Users
PTZ						Edge Storage	NAS Local PC for instant recording
Pan/Tilt Range		Pan:0° ~360° ;Tilt:0° ~90° ;Rotation:0° ~360°				Web Viewer	IE, Chrome, Firefox, Safari
Intelligence		Motion detection, Video tampering, Scene changing,				Management Software	Smart PSS, DSS, DMSS
Event Trigger		Network disco	nnection, lp a			Smart Phone	IOS, Android
IVS		access, Storage anomaly  Tripwire, Intrusion				Certifications	
Video						Certifications	CE (EN 60950:2000) UL:UL60950-1 FCC: FCC Part 15 Subpart B
Compression		H.265/H.264H/MJPEG(Sub Stream)				Interface	·
Smart Codec		Support H.265+/H.264+				Video Interface	N/A
Streaming Capability		2 Streams				Audio Interface	N/A
Resolution		4M(2688x1520)/3M(2304×1296)/1080P(19 20×1080)/720P(1280×720)/VGA(640×480)/				RS485	N/A
Frame Rate		D1(704×576/704×480)/CIF(352×288/352×240)  Main Stream: 4M(1 ~ 20fps)/3M (1 ~ 25/30fps)				Alarm	N/A
		Sub Stream: D1(1 ~ 25/30fps)				Electrical	
Bit Rate Control		CBR/VBR				Power Supply	DC12V, PoE (IEEE 802.3af)(Class 0)
Dit hate collition						Power Consumption	< 5.5W

#### Environmental

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

#### Construction

Casing	Metal+Plastic
Dimensions	Ф108mm×84.9mm(4.25"x3.15")
Net Weight	0.23Kg(0.51lb)
Gross Weight	0.387Kg(0.85lb)

Ordering Information					
Туре	Part Number	Description			
	DH-IPC-HDW1431SP -0280B	4MP IR Eyeball Network Camera, 2.8mm,PAL			
	DH-IPC-HDW1431SN -0280B	4MP IR Eyeball Network Camera, 2.8mm,NTSC			
	IPC-HDW1431SP -0280B	4MP IR Eyeball Network Camera, 2.8mm,PAL			
4MP camera	IPC-HDW1431SN -0280B	4MP IR Eyeball Network Camera, 2.8mm,NTSC			
4IVIP Calliera	DH-IPC-HDW1431SP -0360B	4MP IR Eyeball Network Camera, 3.6mm,PAL			
	DH-IPC-HDW1431SN -0360B	4MP IR Eyeball Network Camera, 3.6mm,NTSC			
	IPC-HDW1431SP -0360B	4MP IR Eyeball Network Camera, 3.6mm,PAL			
	IPC-HDW1431SN -0360B	4MP IR Eyeball Network Camera, 3.6mm,NTSC			
	PFA130-E	Junction box			
Accessories (optional)	PFB203W	Wall mount			
	PFA152-E	Pole mount			

### Accessories

#### Optional:







PFA130-E Junction Box

PFB203W Wall mount

PFA152-E Pole mount

Junction Mount	Pole Mount
PFA130-E	PFB203W + PFA152-E
Wall Mount	
PFB203W	

## Dimensions (mm/inch)



