

# DHI-TPC-BF2241-T

# Thermal Network Hybrid Bullet Camera



#### **System Overview**

Featuring a dual lens, fixed bullet camera, this series provides an all-in-one solution for capturing video surveillance for indoor and outdoor applications. Together with Thermal and Visible Technology, the camera is the perfect solution for dark, small area monitoring applications. The series combines one thermal camera for monitoring in total darkness and one visible camera with Smart IR for confirming details.

#### **Functions**

#### **Uncooled VOx Technology**

Dahua thermal cameras use uncooled VOx sensor technology. The detector is small-sized and highly sensitive, allowing the camera to reveal images in greater detail and giving you more visual information on a monitored site. It also improves the accuracy of temperature measurements, ensuring that even minute temperature changes are detected.

#### **High Sensitivity**

High thermal sensitivity ( $\leq$  40 mK) makes these cameras capture images in fine detail, and detect subtle and large temperature changes.

## Temperature Measurement (-20 °C to + 550 °C)

Dahua thermal cameras (-T models) remotely monitor temperatures. They are customizable, allowing you to freely set threshold alarms. Whether day or night, the temperature of objects can be monitored, making the camera ideal for use in power plants or at oil extraction sites where overheating can be dangerous. When the temperature exceeds the set threshold, an alarm is immediately triggered. The camera can function in temperatures ranging from  $-20~{\rm ^{\circ}C}$  to  $+550~{\rm ^{\circ}C}$  ( $-4~{\rm ^{\circ}F}$  to  $+1022~{\rm ^{\circ}F}$ ).

- · Vanadium oxide uncooled focal plane detector.
- · 4Megapixel progressive scan CMOS.
- Offers various AI functions such as intrusion, target filtering, heat detection, smoking detection, and calling detection.
- Temperature measurement range of -20 °C to +550 °C (-4 °F to
- +1022 °F)
- Built-in white light and speaker that produce light and sound alarms to deter intruders.
- Built-in IR LED, and the max. illumination distance 35 m.
- Dual image fusion (visible and thermal images).
- 12 VDC ± 20%/PoE power supply.
- IP67 rated.

#### **Heat Detection & Alarm**

With its extended detection range, the camera can detect heat sources that are in locations distant to it. It is also highly sensitive to temperature changes, allowing the accuracy of its heat source detection to be higher than cameras that work in the visible light range.

#### **Smoking Detection**

Empowered by deep learning AI technology, the camera can automatically detect and trigger alarms for people smoking, providing intelligent sound and light warnings to dissuade smokers, and avoid potential risks and loss. It multi-tasks in extracting elements from the visible light and thermal image at the same time to detect smoke and the person that is actively smoking.

#### Environment (-30 °C to +60 °C)

Developed to operate in extreme conditions, the camera can function in temperatures ranging from -30 °C to +60 °C (-22 °F to +140 °F). It was subjected to rigorous dust and water immersion tests, gaining its IP67 certification, making it suitable for demanding outdoor applications. For environments with rain, sleet, snow and fog, an integrated wiper (optional) provides users with clear visibility at all times.

#### Protection

The camera supports wide range voltage input, making it suitable for even the most unstable conditions. It has 6 kV lightning certification, providing strong protection for both the camera and its structure against lightning, making it ideal for outdoor applications.

#### Scene

It is highly suitable for warehouses, waste stations, factories, laundries and more.

·							
	Specification	n			Pixel	4 MP	
Thermal					Horizontal Definition	≥1600 TVL	
Detector Type		Vanadium oxide uncooled focal plane detector 256 (H) × 192 (V)			Min. Illumination	Color: 0.05 lux B/W: 0.005 lux 0 lux (IR on)	
	Effective Pixels				Visible AGC	Auto/Manual	
Pixel Pitch		12 μm			Visible Noise Reduction	2D NR/3D NR	
Spectral Rang		8 μm–14 μm			S/N Ratio	≥55 dB	
Sensitivity (N	ETD)	≤40 mK@f/1.0			White Balance	Auto; indoor; outdoor; tracking; manual; natural; street	
Focal Length	Focal Length				Wille balance	lamp	
Field of View		3.5 mm: H: 50.6°; V: 37.8° 7 mm: H: 24°; V: 18°			Defog	Electronic defog	
Thermal Focu	is Control	Fixed-focal			Electronic Shutter Speed	1 s-1/30,000 s (auto/manual)	
Close Focus D	istance	3.5 mm: 0.5 m (1.64 ft) 7 mm: 1 m (3.28 ft)			BLC	Yes	
		Detection	Recognition	Identification	WDR	DWDR	
	Focal Length	Distance	Distance	Distance	HLC	Yes	
Effective Distance	3.5 mm	Vehicle: 389 m (1,276.25 ft)	Vehicle: 97 m (318.24 ft)	Vehicle: 49 m (160.76 ft)	Day/Night	Auto (ICR); Color; B/W	
Human (1.8 m × 0.5 m)	3.3 11111	Human: 146 m (479.00 ft)	Human: 38 m (124.67 ft)	Human: 19 m (62.34 ft)	Iris Control	Fixed	
Vehicle (4.0 m × 1.4 m)		Vehicle: 778 m	Vehicle: 194	Vehicle: 97	Image Flip	90°; 180°; 270°	
	7 mm	(2,552.49 ft) Human: 292 m	m (636.48 ft) Human: 75 m	m (318.24 ft) Human: 38 m	Exposure Compensation	Yes	
		(958.01 ft)	(246.06 ft)	(124.67 ft)	Visible Focus Control	Fixed-focal	
_		ts objects, but car	-		Focal Length	4 mm; 8 mm	
2) Recognition human, ve	on Distance: Clas hicle (the object	ist cover more than 3.6 pixels of the image). sifies objects into general categories, such as must cover more than 14 pixels of the image).			Field of View	4 mm: H: 71.2°; V: 52° 8 mm: H: 33.4°; V: 25°	
their chara		assifies objects into specific categories based on as engineering truck, car (the object must cover image)			Close Focus Distance	4 mm: 1 m (3.28 ft) 8 mm: 2.5 m (8.20 ft)	
Digital Detail (DDE)	Enhancement	Yes			Aperture	4 mm: F1.6 8 mm: F2.0	
Thermal Imag	ge Stabilization	Electronic Image Stabilization (EIS)			Illuminator On/Off Control	Auto/Manual	
Digital Zoom		16 levels			Illumination Distance	4 mm: ≥35 m (114.83 ft) 8 mm: ≥50 m (164.04 ft)	
Thermal AGC		Auto/Manual			Audio and Video	Audio and Video	
Thermal Nois	e Reduction	2D NR/3D NR			Video Compression	H.265; H.264; H.264H; H.264B; MJPEG	
Image Flip		90°; 180°; 270°				Thermal:	
Color Palettes		18 (white hot/black hot/fusion/rainbow/golden autumn/midday/iron red/amber/jade/sunset/icefire/painting/pomegranate/emerald /spring/summer/autumn/winter)			Resolution	Main stream: 1.3M (1280 × 960); XVGA (1024 × 768); VGA (640 ×480/256 × 192); 1280 × 960 (default) Sub stream: VGA (640 ×480/256 × 192); 256 × 192 (default) Visible: Main stream: 2336 × 1752; 1080p (1920 × 1080); 720p	
Temperature Measurement Range		High temperature mode: $0 ^{\circ}\text{C}$ to +550 $^{\circ}\text{C}$ (+32 $^{\circ}\text{F}$ to +1022 $^{\circ}\text{F}$ ) Low temperature mode: $-20 ^{\circ}\text{C}$ to +150 $^{\circ}\text{C}$ (-4 $^{\circ}\text{F}$ to +302 $^{\circ}\text{F}$ )				(1280 $\times$ 720); D1 (704 $\times$ 576); 2336 $\times$ 1752 (default) Sub stream: 720p (1280 $\times$ 720); D1 (704 $\times$ 576); CIF (352 $\times$ 288); 352 $\times$ 288 (default)	
Temperature Measurement Accuracy		Auto mode: -20 °C to +550 °C (-4 °F to +1022 °F)  Max. (±2 °C, ±2%); (Temperature: -20 °C to +60 °C)			Video Frame Rate	Thermal:  Main stream: 1 fps–25 fps, 25 fps by default  Sub stream: 1 fps–25 fps, 15 fps by default  Visible:  Main stream: 1 fps–25 fps, 25 fps by default	
Temperature Measurement Mode		Spot: 12 Line: 12 Area: 12			Audio Compression	Sub stream: 1 fps=25 fps, 25 fps by default  G.711a; G.711mu; PCM	
\/ic: - -		Supports 12 rules simultaneously			· ·	JPEG	
Visible					Image Encoding Format	JI LU	
Image Sensor		1/2.7" CMOS			Function		
Max. Resolution		2336 (H) × 1752 (V)			Two-way Audio	Yes	

Malfunction Detection  Network disconnection detection; IP conflict detection memory card state detection; memory space detection  Fusion Mode  Warm color; cold color; fuse with iron oxide red	Sound and Light Alarm	Yes
Micro SD Card (Max.) 256 GB  Interoperability ONVIF; CGI; Dahua SDK  Browser E19 and later (Edge is not supported) Chrome: 42 and earlier Firefox: 42 earlier Firefox: 42 and earlier Firefox: 42 and earlier Firefox: 42 and earlier Firefox: 42 and earlier Firefox: 42 earlier Firefox: 42 earlier Firefox: 42 earlier Firefox: 42 earlier Firefox:	Network Protocol	FTP; DHCP; DNS; DDNS; PPPOE; IPv4/v6; SNMP; QoS;
Micro SD Card (Max.) 256 GB  Interoperability ONVIF; CGI; Dahua SDK  Browser EI; IE 9 and later (Edge is not supported) Chrome: 42 and earlier Firefox: 42 and earlier Firefox: 42 and earlier Cuser/Host Up to 10 (total bandwidth: 100 MB)  Security Authorized username and password; attached MAC address; encrypted HTPPS; IEEE 802.1x; controlled network access  User Management Up to 10 users; supports multi-level user permissions (levels): management group and user group Malfunction Detection Network disconnection detection; IP conflict detection memory card state detection; remory space detection Fusion Mode Warm color; cold color; fuse with iron oxide red PIP Yes (Intelligence automatically turns off when PIP is on Intelligence  Heat Detection Yes  Cold/Hot Spot Trace Yes IVS (Perimeter Protection) Yes. Supports tripwire and intrusion.  Target Distinction Human/Vehicle Classification  Smoking Detection Yes  Port  Network Port 1 × RJ-45 (10/100 Base-T)  Alarm Input 1  Alarm Output 1  Audio Output 1  Audio Output 1  Audio Output 1  RS-485 1  Power  Power Supply 12 VDC, 1 A ± 20%, PoE (802.3af)  Power Consumption Basic: <5.0 W (12 VDC) Max: <12 W (12 VDC, adapter excluded)  ePoE Yes  Environment  Operating Humidity <55%	Region of Interest (RoI)	Yes
Interoperability  ONVIF; CGI; Dahua SDK  Browser  E: IE 9 and later (Edge is not supported) Chrome: 42 and earlier  User/Host  Up to 10 (total bandwidth: 100 MB)  Authorized username and password; attached MAC address; encrypted HTTPS; IEEE 802.1x; controlled network access  User Management  Up to 10 users; supports multi-level user permissions (levels): management group and user group  Malfunction Detection Metwork disconnection detection; IP conflict detection memory card state detection; iP conflict detection memory card state detection; memory space detection  Fusion Mode  Warm color; cold color; fuse with iron oxide red  PIP  Yes (Intelligence automatically turns off when PIP is on  Intelligence  Heat Detection  Yes  Cold/Hot Spot Trace  Yes  IVS (Perimeter Protection)  Yes. Supports tripwire and intrusion.  Target Distinction  Human/Vehicle Classification  Smoking Detection  Yes  Call Detection  Yes  Call Detection  Yes  Port  Network Port  1 × RJ-45 (10/100 Base-T)  Alarm Input  1  Audio Input  1  Audio Output  1  Audio Output  1  RS-485  1  Power  Power Supply  12 VDC, 1 A ± 20%, PoE (802.3af)  Power Consumption  Basic: <5.0 W (12 VDC)  Max: <12 W (12 VDC, adapter excluded)  PoE  Environment  Operating Humidity <a href="mailto:spoke">90°C to +60°C (-22°F to +140°F)</a> Operating Humidity	Storage	Micro SD card
Browser    IE: IE 9 and later (Edge is not supported)   Chrome: 42 and earlier   Firefox: 42 and earlier	Micro SD Card (Max.)	256 GB
Browser Chrome: 42 and earlier Firefox: 42 and earlier Authorized username and password; attached MAC address; encrypted HTTPS; IEEE 802.1x; controlled network access  User Management Up to 10 users; supports multi-level user permissions (levels): management group and user group Malfunction Detection Memory card state detection; Pconflict detection memory card state detection; permory space detector memory card state detection; memory space detector memory card state detection; memory space detector feusion Mode Warm color; cold color; fuse with iron oxide red PIP Yes (Intelligence automatically turns off when PIP is on Intelligence  Heat Detection Yes  Cold/Hot Spot Trace Yes  IVS (Perimeter Protection) Yes. Supports tripwire and intrusion.  Target Distinction Human/Vehicle Classification  Smoking Detection Yes  Call Detection Yes  Port  Network Port 1 × RJ-45 (10/100 Base-T)  Alarm Input 1  Alarm Output 1  Audio Input 1  Audio Output 1  Audio Output 1  Audio Output 1  RS-485 1  Power  Power Supply 12 VDC, 1 A ± 20%, PoE (802.3af)  Power Supply 12 VDC, 1 A ± 20%, PoE (802.3af)  Power Consumption Basic: <5.0 W (12 VDC) Max: <12 W (12 VDC, adapter excluded)  ePoE Yes  Environment  Operating Humidity ≤95%	Interoperability	ONVIF; CGI; Dahua SDK
Authorized username and password; attached MAC address; encrypted HTTPS; IEEE 802.1x; controlled network access User Management Up to 10 users; supports multi-level user permissions (levels): management group and user group Malfunction Detection Network disconnection detection; IP conflict detection memory card state detection; memory space detection Fusion Mode Warm color; cold color; fuse with iron oxide red PIP Yes (Intelligence automatically turns off when PIP is on Intelligence Heat Detection Yes Cold/Hot Spot Trace Yes IVS (Perimeter Protection) Yes. Supports tripwire and intrusion. Target Distinction Human/Vehicle Classification Smoking Detection Yes Call Detection Yes Port Network Port 1 × RJ-45 (10/100 Base-T) Alarm Input 1 Alarm Output 1 Audio Input 1 Audio Output 1 Audio Output 1 RS-485 1 Power Power Supply 12 VDC, 1 A ± 20%, PoE (802.3af) Power Consumption Basic: <5.0 W (12 VDC, adapter excluded) ePoE Yes Environment Operating Humidity 595%	Browser	Chrome: 42 and earlier
Address; encrypted HTTPS; IEEE 802.1x; controlled network access User Management Up to 10 users; supports multi-level user permissions (levels): management group and user group Malfunction Detection Network disconnection detection; IP conflict detection memory card state detection; memory space detection Fusion Mode Warm color; cold color; fuse with iron oxide red PIP Yes (Intelligence automatically turns off when PIP is on Intelligence Heat Detection Yes Cold/Hot Spot Trace Yes IVS (Perimeter Protection) Yes. Supports tripwire and intrusion. Target Distinction Human/Vehicle Classification Smoking Detection Yes Call Detection Yes Port Network Port 1 × RJ-45 (10/100 Base-T) Alarm Input 1 Alarm Output 1 Audio Input 1 Audio Output 1 RS-485 1 Power Power Supply 12 VDC, 1 A ± 20%, PoE (802.3af) Power Consumption Basic: <5.0 W (12 VDC) Max: <12 W (12 VDC), adapter excluded) ePoE Environment Operating Temperature -30 °C to +60 °C (-22 °F to +140 °F) Operating Humidity 595%	User/Host	Up to 10 (total bandwidth: 100 MB)
Levels   management   Levels   management group and user group	Security	address; encrypted HTTPS; IEEE 802.1x; controlled
memory card state detection; memory space detection  Fusion Mode Warm color, cold color; fuse with iron oxide red  PIP Yes (Intelligence automatically turns off when PIP is on Intelligence  Heat Detection Yes  Cold/Hot Spot Trace Yes  IVS (Perimeter Protection) Yes. Supports tripwire and intrusion.  Target Distinction Human/Vehicle Classification  Smoking Detection Yes  Port  Network Port 1 × RJ-45 (10/100 Base-T)  Alarm Input 1  Alarm Output 1  Audio Input 1  Audio Output 1  RS-485 1  Power  Power Supply 12 VDC, 1 A ± 20%, PoE (802.3af)  Power Consumption Basic: <5.0 W (12 VDC)  Max: <12 W (12 VDC, adapter excluded)  ePoE Yes  Environment  Operating Temperature -30 °C to +60 °C (-22 °F to +140 °F)  Operating Humidity \$95%	User Management	Up to 10 users; supports multi-level user permissions (2 levels): management group and user group
PIP Yes (Intelligence automatically turns off when PIP is on Intelligence  Heat Detection Yes  Cold/Hot Spot Trace Yes  IVS (Perimeter Protection) Yes. Supports tripwire and intrusion.  Target Distinction Human/Vehicle Classification  Smoking Detection Yes  Call Detection Yes  Port  Network Port 1 × RJ-45 (10/100 Base-T)  Alarm Input 1  Alarm Output 1  Audio Input 1  Audio Output 1  RS-485 1  Power  Power Supply 12 VDC, 1 A ± 20%, PoE (802.3af)  Power Consumption Basic: <5.0 W (12 VDC) Max: <12 W (12 VDC, adapter excluded)  ePoE Yes  Environment  Operating Temperature -30 °C to +60 °C (-22 °F to +140 °F)  Operating Humidity \$95%	Malfunction Detection	Network disconnection detection; IP conflict detection; memory card state detection; memory space detection
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Cold/Hot Spot Trace  IVS (Perimeter Protection)  Yes. Supports tripwire and intrusion.  Target Distinction  Human/Vehicle Classification  Smoking Detection  Yes  Call Detection  Yes  Port  Network Port  1 × RJ-45 (10/100 Base-T)  Alarm Input  1  Alarm Output  1  Audio Input  1  RS-485  1  Power  Power Supply  12 VDC, 1 A ± 20%, PoE (802.3af)  Power Consumption  Basic: <5.0 W (12 VDC)  Max: <12 W (12 VDC, adapter excluded)  ePoE  Environment  Operating Temperature  -30 °C to +60 °C (-22 °F to +140 °F)  Operating Humidity  ≤95%	Intelligence	
IVS (Perimeter Protection)  Yes. Supports tripwire and intrusion.  Target Distinction  Human/Vehicle Classification  Smoking Detection  Yes  Call Detection  Yes  Port  Network Port  1 × RJ-45 (10/100 Base-T)  Alarm Input  1  Alarm Output  1  Audio Input  1  Audio Output  1  RS-485  1  Power  Power Supply  12 VDC, 1 A ± 20%, PoE (802.3af)  Power Consumption  Basic: <5.0 W (12 VDC)  Max: <12 W (12 VDC, adapter excluded)  ePoE  Yes  Environment  Operating Temperature  -30 °C to +60 °C (-22 °F to +140 °F)  Operating Humidity  ≤95%	Heat Detection	Yes
Target Distinction  Human/Vehicle Classification  Smoking Detection  Yes  Port  Network Port  1 × RJ-45 (10/100 Base-T)  Alarm Input  1  Audio Input  1  Audio Input  1  RS-485  1  Power  Power Supply  12 VDC, 1 A ± 20%, PoE (802.3af)  Power Consumption  Basic: <5.0 W (12 VDC) Max: <12 W (12 VDC, adapter excluded)  ePoE  Yes  Environment  Operating Temperature  -30 °C to +60 °C (-22 °F to +140 °F)  Operating Humidity  Sy5%	Cold/Hot Spot Trace	Yes
Smoking Detection  Yes  Call Detection  Yes  Port  Network Port  1 × RJ-45 (10/100 Base-T)  Alarm Input  1  Alarm Output  1  Audio Input  1  RS-485  1  Power  Power Supply  12 VDC, 1 A ± 20%, PoE (802.3af)  Power Consumption  Basic: <5.0 W (12 VDC)  Max: <12 W (12 VDC, adapter excluded)  ePoE  Yes  Environment  Operating Temperature  -30 °C to +60 °C (-22 °F to +140 °F)  Operating Humidity  ≤95%	IVS (Perimeter Protection)	Yes. Supports tripwire and intrusion.
Call Detection  Port  Network Port  1 × RJ-45 (10/100 Base-T)  Alarm Input  1  Alarm Output  1  Audio Input  1  Audio Output  1  RS-485  1  Power  Power Supply  12 VDC, 1 A ± 20%, PoE (802.3af)  Power Consumption  Basic: <5.0 W (12 VDC) Max: <12 W (12 VDC, adapter excluded)  ePoE  Yes  Environment  Operating Temperature  -30 °C to +60 °C (-22 °F to +140 °F)  Operating Humidity  ≤95%	Target Distinction	Human/Vehicle Classification
Port  Network Port 1×RJ-45 (10/100 Base-T)  Alarm Input 1  Alarm Output 1  Audio Input 1  Audio Output 1  RS-485 1  Power  Power Supply 12 VDC, 1 A ± 20%, PoE (802.3af)  Power Consumption Basic: <5.0 W (12 VDC) Max: <12 W (12 VDC, adapter excluded)  ePoE Yes  Environment  Operating Temperature −30 °C to +60 °C (−22 °F to +140 °F)  Operating Humidity ≤95%	Smoking Detection	Yes
Network Port 1 × RJ-45 (10/100 Base-T)   Alarm Input 1   Alarm Output 1   Audio Input 1   Audio Output 1   RS-485 1   Power 12 VDC, 1 A ± 20%, PoE (802.3af)   Power Consumption Basic: <5.0 W (12 VDC) (Max: <12 W (12 VDC), adapter excluded)	Call Detection	Yes
Alarm Input  Alarm Output  1  Audio Input  1  Audio Output  1  RS-485  1  Power  Power Supply  12 VDC, 1 A ± 20%, PoE (802.3af)  Power Consumption  Basic: <5.0 W (12 VDC) Max: <12 W (12 VDC, adapter excluded)  ePoE  Yes  Environment  Operating Temperature  -30 °C to +60 °C (-22 °F to +140 °F)  Operating Humidity  ≤95%	Port	
Alarm Output  Audio Input  1  Audio Output  1  RS-485  1  Power  Power Supply  12 VDC, 1 A ± 20%, PoE (802.3af)  Power Consumption  Basic: <5.0 W (12 VDC)  Max: <12 W (12 VDC, adapter excluded)  ePoE  Yes  Environment  Operating Temperature  -30 °C to +60 °C (−22 °F to +140 °F)  Operating Humidity  ≤95%	Network Port	1 × RJ-45 (10/100 Base-T)
Audio Input  Audio Output  1  RS-485  1  Power  Power Supply  12 VDC, 1 A ± 20%, PoE (802.3af)  Power Consumption  Basic: <5.0 W (12 VDC) Max: <12 W (12 VDC, adapter excluded)  ePoE  Yes  Environment  Operating Temperature  -30 °C to +60 °C (-22 °F to +140 °F)  Operating Humidity  ≤95%	Alarm Input	1
Audio Output  RS-485  1  Power  Power Supply  12 VDC, 1 A ± 20%, PoE (802.3af)  Power Consumption  Basic: <5.0 W (12 VDC) Max: <12 W (12 VDC, adapter excluded)  ePoE  Yes  Environment  Operating Temperature  −30 °C to +60 °C (−22 °F to +140 °F)  Operating Humidity  ≤95%	Alarm Output	1
Power  Power Supply 12 VDC, 1 A ± 20%, PoE (802.3af)  Power Consumption Basic: <5.0 W (12 VDC) Max: <12 W (12 VDC, adapter excluded)  ePoE Yes  Environment  Operating Temperature −30 °C to +60 °C (−22 °F to +140 °F)  Operating Humidity ≤95%	Audio Input	1
Power Supply 12 VDC, 1 A ± 20%, PoE (802.3af)  Power Consumption Basic: <5.0 W (12 VDC)     Max: <12 W (12 VDC, adapter excluded)  ePoE Yes  Environment  Operating Temperature −30 °C to +60 °C (−22 °F to +140 °F)  Operating Humidity ≤95%	Audio Output	1
Power Supply  12 VDC, 1 A ± 20%, PoE (802.3af)  Power Consumption  Basic: <5.0 W (12 VDC) Max: <12 W (12 VDC, adapter excluded)  ePoE  Yes  Environment  Operating Temperature  -30 °C to +60 °C (−22 °F to +140 °F)  Operating Humidity  ≤95%	RS-485	1
Power Consumption  Basic: <5.0 W (12 VDC) Max: <12 W (12 VDC, adapter excluded)  ePoE  Yes  Environment  Operating Temperature  −30 °C to +60 °C (−22 °F to +140 °F)  Operating Humidity  ≤95%	Power	
Power Consumption  Max: <12 W (12 VDC, adapter excluded)  ePoE  Yes  Environment  Operating Temperature  −30 °C to +60 °C (−22 °F to +140 °F)  Operating Humidity  ≤95%	Power Supply	12 VDC, 1 A ± 20%, PoE (802.3af)
Environment  Operating Temperature  -30 °C to +60 °C (-22 °F to +140 °F)  Operating Humidity ≤95%	Power Consumption	, ,
Operating Temperature -30 °C to +60 °C (−22 °F to +140 °F)  Operating Humidity ≤95%	ePoE	Yes
Operating Humidity ≤95%	Environment	
	Operating Temperature	−30 °C to +60 °C (−22 °F to +140 °F)
Storage Temperature $-40^{\circ}\text{C}$ to $+70^{\circ}\text{C}$ ( $-40^{\circ}\text{F}$ to $+158^{\circ}\text{F}$ )	Operating Humidity	≤95%
	Storage Temperature	-40 °C to +70 °C (-40 °F to +158 °F)

### Physical Characteristics

Protection	IP67	
Reliability	Surge protection: 6 kV Air discharge of 15 kV Contact discharge of 8 kV	
Structure		
Product Dimensions	279.9 mm × 103.8 mm × 95.8 mm (10.31" × 0.46" × 4.35") (L × W × H)	
Packaging Dimensions	365 mm $\times$ 175 mm $\times$ 176 mm (14.37" $\times$ 6.89" $\times$ 6.92") (L $\times$ W $\times$ H)	

≤1.4 kg (3.09 lb) ≤1.9 kg (4.19 lb)

Temperature Measurement Range				
Focal Length	3.5 mm	7 mm		
Min Distance	1 m	3 m		
Max Distance	5 m	8 m		

Note

Net Weight

Gross Weight

The table displays the measured distances obtained from using the target size 0.1 m x 0.1 m for testing in an environment where the temperature is 23 °C and the relative humidity is below 60%. The table is for reference only. The distances within it are subject to actual conditions including atmospheric conditions, target size, the installation site, and more.

Ordering Information							
Туре	Model	Description					
Thermal	DHI-TPC-BF2241- TB3F4-DW-S2	Thermal: 3.5 mm; Visible: 4 mm					
Camera	DHI-TPC-BF2241- TB7F8-DW-S2	Thermal: 7 mm; Visible: 8 mm					
	PFA121	Water-proof Junction Box (wall mount)					
Accessories (Optional)	PFA121+PFA150	Water-proof Junction Box + Pole Mount Bracket (pole mount)					
	PFA121+PFA151	Water-proof Junction Box + Corner Mount Bracket (corner mount)					

#### **Accessories**

## Optional:





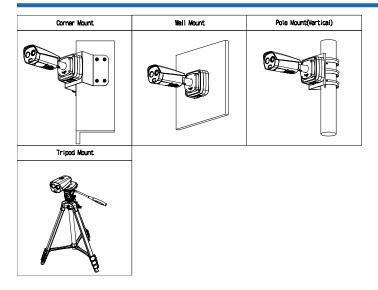








PFA121+PFA151 Water-proof Junction Box + Corner Mount Bracket (corner mount)



## Dimensions (mm[inch])



