

DHI-TPC-BF1241-T

Thermal Network Mini Hybrid Bullet Camera



- Vanadium oxide uncooled focal plane detector.
- 4Megapixel progressive scan CMOS.
- Al functions: heat detection, tripwire, human/vehicle classification, smoking detection, and call detection.
- Temperature measurement range of -20 °C to +550 °C.
- Flexible rules and alarms.
- Built-in white light and audio alarm.
- Remote auxiliary management.
- · Dual image fusion (visible and thermal channels).
- Wide input voltage 12 VDC ± 20%, and PoE.
- IP67 rated.

Featuring thermal and visible channels, Eureka series thermal network camera offers various AI functions such as tripwire, intrusion, call detection, smoking detection, and temperature measurement. It can be used in short-distance monitoring scenes such as perimeter protection and heat monitoring, which provides an all-in-one video surveillance solution for small and medium scenes. The camera is widely applied in waste, laundry, warehouse, and more.

Technical Specification

Thermal		
Detector Type	Vanadium oxide uncooled focal plane detector	
Max. Resolution	256 (H) × 192 (V)	
Pixel Pitch	12 μm	
Spectral Range	8 μm-14 μm	
Thermal Sensitivity (NETD)	< 40 mK (@f/1.0, 25 Hz, 300 K)	
Field of View	3.5 mm: H: 50.6°; V: 37.8° 7 mm: H: 24°; V: 18° 10 mm: H: 17.3°; V: 13.1°	
Close Focus Distance	3.5 mm: 0.5 m (1.64 ft) 7 mm: 1 m (3.28 ft) 10 mm: 2 m (6.56 ft)	
Detection Distance ^①	3.5 mm: Vehicle: 449 m (1,473.10 ft); Human: 146 m (479.00 ft) 7 mm: Vehicle: 897 m (2,942.91 ft); Human: 292 m (958.01 ft) 10 mm: Vehicle: 1,282 m (4,206.04 ft); Human: 417 m (1,368.11 ft)	
Recognition Distance [®]	3.5 mm: Vehicle: 110 m (360.89 ft); Human: 38 m (124.67 ft) 7 mm: Vehicle: 220 m (721.78 ft); Human: 75 m (246.06 ft) 10 mm: Vehicle: 314 m (1,030.18 ft); Human: 107 m (351.05 ft)	

 3.5 mm: Vehicle: 56 m (183.73 ft); Human: 19 m (62.34 ft)

 Identification Distance[®]

 7 mm: Vehicle: 111 m (364.17 ft); Human: 38 m (124.67 ft)

 10 mm: Vehicle: 159 m (521.65 ft); Human: 54 m (177.17 ft)

Note:

 Detection Distance: Detects objects, but cannot recognize their characteristics (objects must cover more than 3.6 pixels of the image).

- (2) Recognition Distance: Classifies objects into general categories, such as human, vehicle (the object must cover more than 14 pixels of the image).
- (3) Identification Distance: Classifies objects into specific categories based on their characteristics, such as engineering truck, car (the object must cover more than 28 pixels of the image).

Aperture	F1.0
Digital Detail Enhancement (DDE)	Yes
Digital Zoom	16 levels
AGC	Auto; Manual
Noise Reduction	2D NR; 3D NR
Image Flip	90°; 180°; 270°
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)
Fusion Mode	3 (Warm color; Cool color; Ironred)
Visible	
Image Sensor	1/2.7" CMOS

Eureka Series | DHI-TPC-BF1241-T

Partial of the section of the secti	Max. Resolution	2336 (H) × 1752 (V)		Thermal:
Extension Subtract with a start of the st				Main Stream: 1280 × 960 (1.3M); XVGA (1024 × 768);
Material Ma		1/30,000 s-1 s		Sub Stream: VGA (640 × 480); 256 × 192; 256 × 192 (by
Initialization DistanceInvestigationBinelization OxfordAdds ManualAperureImmain 11 & Soft ManualAperureImmain 12 & Soft ManualFinal of ViewImmain 12 & Soft ManualConsort ControlImmain 12 & Soft ManualConsort ControlImmain 12 & Soft ManualMarket DistanceImmain 12 & Soft ManualManual of Consort ManualImmain 12 & Soft ManualConsort ControlImmain 12 & Soft ManualMarket DistanceImmain 12 & Soft Manual<	Min. Illumination	Black & white: 0.005 lux	Resolution	Visual: Main Stream: 2336 × 1752; 1080p (1920 × 1080); 720p (1280 × 720); D1 (704 × 576); 2336 × 1752 (by default) Sub Stream: 720p (1280 × 720); D1 (704 × 576); CIF (352 ×
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ApertureAmini Lis Since 200Amini Lis Since 200<		Auto; Manual		50 Hz: (main stream) 1 fps-25 fps adjustable, 25 fps by
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Faced Control Read	Field of View	8 mm: H: 33.4°; V: 25°		
close focus Distanel3.mm: 2.5 m (8.2 m) stand 2.5 m (8.2 m)Audio Compression5.7112; 6.711m; CP. Adep. (157), CP. (150), CP. (150)	Focus Control			default; (sub stream) 1 fps-30 fps adjustable, 15 fps by
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WRINPHCYesKino Manali, Indoor, Outdoor, Tracking, Street Lamp; NaturalKino Manali, Indoor, Outdoor, Tracking, Street Lamp; NaturalNNP: CGL DeHua SDKAGCAlto: ManalBillSouth AltorBillBillAlto: ManalSo BaBillBillBillSouth AltorAge on Interest (Ro)YesSouth AltorAuthorized username and password; stached MAC Adverse; encrypted HTTPS; EEE 80.1; controlled adverse; encrypted HTTPS; EEE 80.1; controlled 	BLC	Yes		
NationAuto: Manual; Indoor; Outdoor; Tracking: Street lamp; NaturalInteroperabilityONVIF: CGI; Dathua SDKAGCAuto: Manual; Indoor; Outdoor; Tracking: Street lamp; NaturalBrowserGoogle: 42 and earlier Scogle: 42 and earlier Frefor: 42 and earlierAGCDNR; 3D NRUser/HostGoogle: 42 and earlier Scogle: 42 and earlier Frefor: 42 and earlierS/N Ratio25 SdBUser/HostGoogle: 42 and earlier Scogle: 42 and earlier Frefor: 42 and earlierMage Flip90°; 180°; 270°Outforted username end password; attached MAC admon? Dathorized username and password; attached MAC admon?Exposure CompensatioYesNetwork14 SecurityIntelligencerippine; IntrusionNetwork access14 SecurityAdvanced Intelligencefor pine; IntrusionNetwork access14 AccessIntelligencefoor Emperature Mode: Soci Namp Street Classification Soci Namp Street Classification Soci Clas	WDR	DWDR	Protocol	
Write stanceNaturalIf is 8 and later Google: 42 and earlier Firefoc: 42	HLC	Yes	Edge Storage	Micro SD card (256 G)
AGC Ador, Manual Browser Google: 32 and earlier Firefox: 42 and earlier Firefox: 42 and earlier Noise Reduction 25 NR, 3D NR User/Host 10 S/N Ratio 255 dB User/Host 10 Region of Interest (Rol) Yes Security address; encryted HTTPS; FIEE 802, Ly: controlled network access Inage Flip 09'; 130'; 270' Port Exposure Compensation yes Network 140: Old pass-T) General Intelligence Tripwire; Intrusion Network 14: Address; encryted HTTPS; FIEE 802, Ly: controlled Advanced Intelligence Tripwire; Intrusion Network 14: RI-45 (10/100 Bass-T) Advanced Intelligence Tripwire; Intrusion Audio Output 14: Address; encryted HTTPS; FIEE 802, Ly: controlled Intelligence Tripwire; Intrusion Audio Output 14: Address Intelligence Solida Hot Spot Trace throns Ry Holida Edistification soniga Detection Researce Researce Intelligence Ew Temperature Mode: col to etcol to etcol 2: Trip to 2: Trip throns Ry Holida Edistification col to etcol 2: Trip to 12: Trip throns Ry Holida Edistification col to etcol 2: Trip to 12: Trip throns Ry Holida Edistification col to etcol 2: Trip to 12: Trip throns Ry Holida Edistification col to etcol 2: Trip to 12: Trip throns Ry Holida Edistification col to etcol 2: Trip to 12: Trip throns Ry Holida Edistification cor to etcol 2: Trip to 12: Trip throns Ry Holida Edistifi	White Balance		Interoperability	ONVIF; CGI; DaHua SDK
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S/N Ratio 255 dB Region of Interest (Rol) Yes Image Flip 90°; 180°; 270° Exposure Compensation Yes Intelligence Fort General Intelligence Tripwire; Intrusion Advanced Intelligence Tripwire; Intrusion Heat Detection & Alarm Smoking Detection Smoking Detection Call Bettection Alarn Output 1 Intelligence Intelligence Intelligence Intelligence Trace Human & Vehicle Classification Smoking Detection Call Detection Alarn Output 1 Intelligence Over Res48s 1 Intelligence -20° Cto +150° C(-4° F to +102° F) High Temperature Mode: -20° Cto +150° C(-4° F to +102° F) High Temperature Mode: -20° Cto +50° C(-4° F to +102° F) High Temperature Mode: -20° Cto +50° C(-4° F to +102° F) High Temperature Mode: -20° Cto +50° C(-4° F to +102° F) High Temperature Mode: -20° Cto +50° C(-4° F to +102° F) High Temperature Mode: -20° Cto +50° C(-4° F to +102° F) High Temperature Mode: -20° Cto +50° C(-4° F to +102° F) Power Temperature Accuracy Max(±2° C, ±28) Operating Temperature: -20° Cto +50° C(-4° F to +122° F) Power Supply 12VDC ±20%, PoE Temperature Mode: -20° Cto +50° C(-4° F to +122° F) Power Consumption Basis: -45 W (12 VDC, LED off); 4.8 W (PoE) Max: -410.1 W (12 VDC, LED off); 4.8 W (PoE) Max: -410.1 W (12 VDC, LED off); 4.8 W (PoE) Max: -410.1 W (12 VDC, LED off); 4.8 W (PoE) Max: -410.1 W (12 VDC, LED off); 4.8 W (PoE) Max: -410.1 W (12 VDC, LED o	Noise Reduction	2D NR; 3D NR	liss of liss of	
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Temperature Accuracy Max (± 2 °C, ± 2%) Operating Temperature: -20 °C to+50 °C (-4 °F to +122 °F) Final Parameter Temperature Mode Spot: 12 Line: 12 Area: 12 Support 12 rules simultaneously Spot: 12 Line: 12 Area: 12 Support 12 rules simultaneously Spot: 12 Directing Temperature -30 °C to +60 °C (-22 °F to +140 °F) Video and Audio -30 °C to +70 °C (-22 °F to +158 °F) Spot: 12 Spot: 12 Composition of the simultaneously Spot: 12 Storage Temperature -30 °C to +70 °C (-22 °F to +158 °F)	Temperature Range	High Temperature Mode:		Basic: <4.5 W (12 VDC, LED off); 4.8 W (PoE)
Spot: 12 Line: 12 Area: 12 Support 12 rules simultaneously Operating Temperature -30 °C to +60 °C (-22 °F to +140 °F) Storage Temperature -30 °C to +70 °C (-22 °F to +158 °F) -30 °C to +70 °C (-22 °F to +158 °F) Video and Audio Spot: 12 Spot: 12	Temperature Accuracy			Max: <10.1 W (12 VDC, LED on, heater on); 12.3 W (PoE)
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Video and Audio Operating Humidity <95%	Temperature Mode	Area: 12		
Video Compression H.265; H.264; H.264H; MJPEG Protection IP67	Video and Audio			
	Video Compression	H.265; H.264; H.264H; MJPEG	Protection	IP67

Eureka Series | DHI-TPC-BF1241-T

Structure

Product Dimensions	205.5 mm × 90.4 mm × 90.1 mm (8.09" × 3.56" × 3.55") (L × W × H)
Packaging Dimensions	279 mm × 187 mm × 138 mm (10.98'' × 7.36'' × 5.43'') (L × W × H)
Net Weight	≤0.9 kg (1.98 lb)
Gross Weight	≤1.3 kg (2.87 lb)

Heat Detection Distance

Focal Length	Max. Distance
3.5 mm	45 m (147.64 ft)
7 mm	86 m (282.15 ft)
10 mm	123 m (403.54 ft)

Note:

The table displays the measured distances obtained from using the target size 0.2 m \times 0.2 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.

Temperature Measurement Range

Focal Length	Min. Distance	Max. Distance
3.5 mm	1 m (3.28 ft)	5 m (16.40 ft)
7 mm	2 m (6.56 ft)	8 m (16.25 ft)
10 mm	3 m (9.84 ft)	12 m (39.37 ft)

Note:

The table displays the measured distances obtained from using the target size $0.1 \text{ m} \times 0.1 \text{ m}$ 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
	DHI-TPC-BF1241-TB3F4-DW-S2	Thermal: 256 × 192 3.5 mm lens Visible: 4 MP 4 mm lens
Thermal Camera	DHI-TPC-BF1241-TB7F8-DW-S2	Thermal: 256 × 192 7 mm lens Visible: 4 MP 8 mm lens
	DHI-TPC-BF1241-TB10F12- DW-S2	Thermal: 256 × 192 10 mm lens Visible: 4 MP 12 mm lens
	PFA152-E	Pole-mount Bracket
Accessories (Optional)	PFA130-E	Junction Box
	PFM320D	Power Adapter

Accessories

Optional:



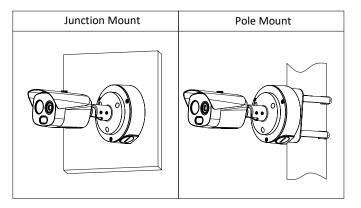




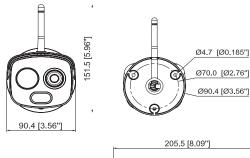
PFA152-E Pole-mount bracket

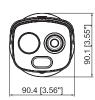
PFA130-E Junction box

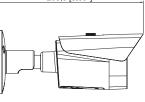
PFM320D Power adapter



Dimensions (mm [inch])







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