DHI-TPC-BF5601-T

Thermal Network Bullet Camera



- Vanadium oxide uncooled focal plane detector.
- AI functions: heat detection, tripwire, intrusion, and human/vehicle classification.
- Temperature measurement range of –20 °C to +550 °C.
- Wide input voltage 12 VDC ± 20%, and PoE.
- IP67 rated.

Featuring the thermal channel, Thermal Network Bullet Camera measures temperature through the thermal channel, with high accuracy Max (±2°C, ±2%). the camera supports multiple temperature measurement rules of spot, line and region at the same time, and generates alarm when the temperature is abnormal, which can help user find potential hazard.

Technical Specification

Thermal Camera

Image Sensor	Vanadium Oxide Uncooled Focal Plane Detector
Effective Pixels	640 (H) × 512 (V)
Pixel Size	17 μm
Thermal Sensitivity (NETD)	≤ 40 mK@f/1.0
Spectral Range	8 μm–14 μm
Image Setting	Brightness/Sharpness/ROI/AGC/FFC/3D DNR
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)

Thermal Lens

Lens Type	Fixed/F1.0
Focus Control	Athermalized, Focus-free
Focal Length	7.5 mm; 13 mm; 25 mm; 35 mm
Angle of View	7.5 mm: H: 91.2°; V: 70.3° 13 mm: H: 48.9°; V: 38.8° 25 mm:H: 24.6°; V: 19.8° 35 mm:H: 17.6°; V: 14.1°

Temperature Measurement

Temperature Range	Low Temperature Mode: –20°C to +150°C (–4°F to +302°F) High Temperature Mode: 0°C to +550°C (+34°F to +1022°F)
Focus Control	Max (±2°C, ±2%) Operating Temperature: –20°C to +60°C (–4°F to +140°F)
Focus Control	Spot: 12 Line: 12 Area: 12 Support 12 rules simultaneously

Video

Compression	H.265; H.264; MJPEG
Frame Rate	Main Stream: Thermal: 1280 × 1024; 720p; 400 × 300@25/30 fps Sub Stream: Thermal: 640 × 512; 400 × 300@25/30 fps
Bit Rate Control	CBR/VBR
Bit Rate	H.264: 640–8192 Kbps
Motion Detection	Off/On (4 zone, Rectangle)
Region of Interest	Off/On (4 zone)
Digital Zoom	4 × (19 levels)
Flip	180°
Mirror	Off/On
Privacy Masking	Off/On (4 area, Rectangle)

Audio

Compression	G.711A; G.711Mu; AAC; PCM

Intelligence

IVS	Tripwire, Intrusion
Advanced Intelligent Functions	Heat detection & alarm, Cold/Hot spot trace, Human/Vehicle classification

Network

Ethernet	RJ-45
Protocol	IPv4/IPv6; HTTP; HTTPS; SSL; TCP/IP; UDP; UPnP; ICMP; IGMP; SNMP; RTSP; RTP; SMTP; NTP; DHCP; DNS; PPPOE; DDNS; FTP; IP Filter; QoS; Bonjour; 802.1x
Interoperability	ONVIF Profile S & G, API
Streaming Method	Unicast/Multicast
Max. User Access	10 Users/20 Users
Edge Storage	Micro SD (256GB) Memory status display (Normal / Error / Active / Formatting / Lock), NAS (Network Attached Storage), Local PC for instant recording
Web Viewer	>IE8; <Chrome42; <Firefox42
Management Software	SmartPSS; DSS
Smart Phone	Android; iOS

Certifications

Certification	CE (EN 60950: 2000) FCC (FCC Part 15 SubpartB)

Interface

Video Interface	1 Port (CVBS/BNC)
Audio Interface	1/1 In/Out
RS485	Yes
Alarm	2/2 In/Out

Electrical

Power Supply	12 VDC /PoE/ePoE
Power Consumption	Max. 13 W

Environmental

Operating Condition	–40°C to +70°C (–40°F to +158°F)/Less than 95% RH * Start up should be done at above –40°C (–40°F)
Storage Conditions	-–40°C to +70°C (-40°F to +158°F)/Less than 95% RH
Ingress Protection	IP67

Construction

Casing	Metal
Dimensions	291 mm × 103 mm × 97 mm (11.46" × 4.06" × 3.82")
Net Weight	1.5 Kg (3.31 lb)
Gross Weight	1.9 Kg (4.19 lb)

DRI Distance

Focal Length	Detection Distance①	Recognition Distance②	Identification Distance③
7.5 mm	Vehicle: 676 m (2,217.85 ft); Human: 221 m (725.07 ft)	Vehicle: 169 m (554.46 ft); Human: 55 m (180.45 ft)	Vehicle: 85 m (278.87 ft); Human: 28 m (91.86 ft)
13 mm	Vehicle: 1,173 m (3,848.43 ft); Human: 382 m (1,253.28 ft)	Vehicle: 293 m (961.29 ft); Human: 96 m (314.96 ft)	Vehicle: 147 m (482.28 ft); Human: 48 m (157.48 ft)
25 mm	Vehicle: 2,255 m (7,398.29 ft); Human: 735 m (2,411.42 ft)1	Vehicle: 564 m (1,850.39 ft); Human: 184 m (603.67 ft)	Vehicle: 282 m (925.20 ft); Human: 92 m (301.84 ft)
35 mm	Vehicle: 3,157 m (10,357.61 ft); Human: 1,029 m (3,375.98 ft)	Vehicle: 789 m (2,588.58 ft); Human: 257 m (843.18 ft)	Vehicle: 395 m (1,295.93 ft); Human: 129 m (423.23 ft)

①Detection Distance: Detects objects, but cannot recognize their characteristics (objects must cover more than 1.5 pixels of the image).
②Recognition Distance: Classifies objects into general categories, such as human, vehicle (the object must cover more than 6 pixels of the image).
③Identification Distance: Classifies objects into specific categories based on their characteristics, such as engineering truck, car (the object must cover more than 12 pixels of the image).

Note:
The table is the standard theoretical calculation and is for reference only. The distances within it are subject to actual conditions including atmospheric conditions, target size, the installation site, and more. For the intelligent detection distance, refer to the table of Perimeter Protection Distance (IVS Distance) above.

Ordering Information

Type	Part Number	Description
DHI-TPC-BF5601-T	DHI-TPC-BF5601-TB7	Thermal: 640 × 512; 7.5 mm lens
	DHI-TPC-BF5601-TB13	Thermal: 640 × 512; 13mm lens
	DHI-TPC-BF5601-TB25	Thermal: 640 × 512; 25mm lens
	DHI-TPC-BF5601-TB35	Thermal: 640 × 512; 35mm lens
Accessories (Optianal)	PFA121	Junction box
	PFA152-E	Pole Mount
	PFM320D	Power Adapter

Accessories

Optional：



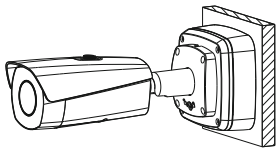
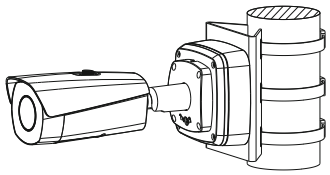
PFA121
Junction box



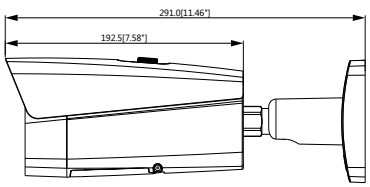
PFA152-E
Pole Mount

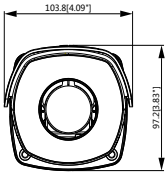


PFM320D
Power Adapter

Junction Mount	Pole Mount
PFA121	PFA121+PFA152-E
	

Dimensions(mm)





Rev 002.000 © 2024 Dahua. All rights reserved. Design and specifications are subject to change without notice.
The images, specifications and information mentioned in the document are only for reference, and might differ from the actual product.