

# DHI-TPC-BF5401-T

Thermal Network Bullet Camera



- · 400x300 VOx uncooled thermal sensor technology
- · Athermalized Lens (thermal), Focus-free
- · Support temperature measurement
- · Various lens optional (7.5/13/25/35mm)
- · 2/2 alarm in/out
- · Micro SD memory, IP67, PoE, ePoE













# **System Overview**

Featuring a fixed lens bullet camera, this series provides an all-in-one solution that is especially beneficial for long distance video surveillance in outdoor applications. Together with Thermal technology, the camera's long range capabilities are able to be utilized even at night.

#### **Functions**

#### Uncooled Vox Technology

Dahua thermal cameras use uncooled Vox sensor technology. Their small size and better performance make them a cost-effective solution for thermal security.

### **High Sensitivity**

High thermal sensitivity (<40mK) allows cameras to capture more image details and temperature difference information.

#### Temperature Measurement

Dahua thermal cameras (-T models) provide remote temperature monitoring functionality with the ability to set temperature threshold alarms. Object temperatures can be monitored in daytime or at night, making them ideal for usage in power plant or oil extraction applications where overheating can be dangerous. When the temperature exceeds the set threshold, an alarm is triggered. The temperature range is between-20 °C to 550 °C.

#### Intelligent Video System (IVS)

IVS is a built-in video analytics algorithm that delivers intelligent functions to monitor a scene for tripwire violations, intrusion detection, and abandoned or missing objects. A camera with IVS quickly and accurately responds to monitoring events in a specific area.

#### Environmental

With a temperature range of -40 °C to +70 °C (-40 °F to +158 °F), the camera is designed for extreme temperature environments. Subjected and certified to rigorous dust and water immersion tests, the IP67 rating makes it suitable for demanding outdoor applications.

#### Protection

The camera allows for  $\pm 15\%$  input voltage tolerance, suitable for the most unstable conditions for outdoor applications. Its 6KV lightning rating provides effective protection for both the camera and its structure against lightning.





<b>Technical Specification</b>						Privacy Masking	Off/On (4 area, Rectangle)
Thermal Camera						Audio	
Image Sensor	Vanadium Oxide Uncooled Focal Plane Detector					Compression	G.711A / G.711Mu / AAC / PCM
Effective Pixels	400(H)x300(V)					Intelligence	
Pixel Size	e 17μm					IVS	Tripwire, Intrusion
Thermal Sensitivity(NETD)	≤40mK@f/1.0					Advanced Intelligent Functions	Fire detection & alarm, Cold/Hot spot trace,
Spectral Range	8μm–14μm					Advanced Intelligent Functions	Human/Vehicle classification
Image Setting	Brightness/Sharpness/ROI/AGC/FFC/3D DNR					Network	
Color Palettes	18(Whitehot/Blackhot/Ironrow/Icefire/ Fusion/Rainbow/Globow/Iconbow1/ Iconbow2 .etc)					Protocol	RJ-45  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,
Thermal Lens						Interaperability	802.1x
Lens Type	Fixed/F1.0	Fixed/F1.0				Interoperability	ONVIF Profile S & G, API
Focus Control	Athermalized, Focus-free					Streaming Method	Unicast/Multicast
Focal Length	7.5mm	13mm	25mm	35mm		Max. User Access	10 Users/20 Users
Angle of View  Effective Distance ①	H: 53.7° V: 39.7° D(2): 221m R(3): 57m	H: 30.2° V: 22.6° D: 382m R: 98m	H: 15.5° V: 11.6° D: 735m R: 189m	H: 11.1° V: 8.3° D: 1030m R: 265m		Edge Storage	Micro SD (256GB) Memory status display (Normal / Error / Active / Formatting / Lock), NAS (Network Attached Storage), Local PC for instant recording
Man(1.8m*0.5m)	I (4): 28m	I: 49m	I: 95m	I: 132m		Web Viewer	>IE8, <chrome42, <firefox42<="" td=""></chrome42,>
Effective Distance Vehicle(4m*1.4m)	D: 490m R: 126m I:63m	D: 850m R: 219m I: 109m	D: 1634m R: 420m I: 210m	D: 2288m R: 588m I: 294m		Management Software	SmartPSS, DSS
1.2011						Certifications	
Temperature Measurement						Certification	CE (EN 60950: 2000) FCC (FCC Part 15 SubpartB )
Temperature Range	+302°F)	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)				Interface	
						Video Interface	1 Port (CVBS/BNC)
Max (±2°C, ±2%) Focus Control Operating Temperature: -20°C to +60°C (-			C (-1°E to		Audio Interface	1/1 In/Out	
rocus control	+140°F)	Operating Temperature: $-20^{\circ}$ C to $+60^{\circ}$ C ( $-4^{\circ}$ F to $+140^{\circ}$ F)				RS485	Support
	Spot: 12					Alarm	2/2 In/Out
Focus Control	Area: 12					Electrical	
Support 12 rules simultaneously Video						Power Supply	DC 12V/PoE/ePoE
Compression	H.265 / H.264 / MJPEG					Power Consumption	Max. 13W
Compression 11.209 / 11.204 / Mared						Environmental	
Frame Rate	Main Stream: Thermal: 1280x1024 / 720P / 400x300 @25/30fps					Operating Condition	-40°C $^{\sim}$ +70°C (-40°F $^{\sim}$ +158°F)/Less than 95% RH * Start up should be done at above-40°C (-40°F)
	Sub Stream: Thermal: 640x512 / 400x300 @25/30fps					Storage Conditions	-40°C ~ +70°C (-40°F ~ +158°F)/Less than 95% RH
Bit Rate Control	CBR/VBR					Ingress Protection	IP67
Bit Rate	H.264: 640 ~ 8192Kbps					Construction	
Motion Detection	Off/On (4 zone, Rectangle)					Construction	
Region of Interest	Off/On (4 zone)					Casing	Metal
Electronic Image Stabilization (EIS)	NA	NA				Dimensions	291mm× 103mm× 97mm (11.46" x 4.06" x 3.82")
Digital Zoom	4x(19 levels)					Net Weight	1.5Kg (3.31 lb)
Flip	180°					Gross Weight	1.9Kg (4.19 lb)

Off/On

Mirror



Ordering Information						
Туре	Part Number	Description				
DHI-TPC- BF5401-T	DHI-TPC-BF5401-TB7	Thermal:400x300 7.5mm lens				
	DHI-TPC-BF5401-TB13	Thermal:400x300 13mm lens				
	DHI-TPC-BF5401-TB25	Thermal:400x300 25mm lens				
	DHI-TPC-BF5401-TB35	Thermal:400x300 35mm lens				

- 1) Effective distance values shown are nominal values and should be used as estimates (2) D: Detection Distance

  (3) R: Recognition Distance

  (4) I: Identification Distance

# **Accessories**

# Optional:



PFA121 Junction box



PFA152-E Pole Mount

# **Mounting Type**

Junction Mount	Pole Mount
PFA121	PFA121+PFA152-E

# Dimensions(mm)



