

# DH-TPC-BF5401-T

# Thermal Network Bullet Camera



- 400 × 300 uncooled VOx thermal sensor technology
- · Athermalized lens (thermal), focus-free
- · Support temperature measurement
- · Various lens optional (7.5/13/25 mm)
- · 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 temperature measurement. 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) makes cameras 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  $^{\circ}$ C to 550  $^{\circ}$ 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. 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 wide 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.

Technical Specification						50Hz:
Thermal				Frame Rate	Main Stream: 1fps–25fps, 25fps by default; sub stream: 1fps–25fps, 15fps by default 60Hz:	
Detector Type	Vanadium Oxide Uncooled Focal Plane Detector					Main Stream: 1fps–30fps, 30fps by default; sub stream: 1fps–30fps, 15fps by default
Max. Resolution	400 × 300	400×300			Audio Compression	G.711a; G.711mu; PCM
Pixel Pitch	17μm	17µm			General Function	
Spectral Range	8μm–14μm					HTTP; HTTPS; TCP; ARP; RTSP; RTP; UDP; RTCP;
Thermal Sensitivity (NETD)	≤ 40mK@f/1.0				Network Protocol	SMTP; FTP; DHCP; DNS; DDNS; PPPOE; IPv4/v6; SNMP; QoS; UPnP; NTP
Focal Length	7.5 mm	13 mm	25 mm		Region of Interest (ROI)	Yes
Field of View	H: 53.7° ×	H: 30° × V: 22.6°	H: 15.5° × V: 11.6°		Edge Storage	FTP; Micro SD card (256G)
	V: 39.7° D: 221 m	v: 22.6 D: 382 m	v: 11.6 D: 735 m		Interoperability	ONVIF; CGI; DAHUA SDK
Effective Distance Human (1.8 m × 0.5 m)	(725.07 ft) R: 57 m (187.01 ft)	(1253.28 ft) R: 98 m (321.52 ft)	(2411.42 ft) R: 189 m (620.08 ft)		Browser	IE: IE9 and the later (Edge not support) Google: 42 and the earlier Firefox: 52 and the earlier
	I: 28 m (91.86 ft)	I: 49 m (160.76 ft)	I: 95 m (311.68 ft)		User/Host	20 channels at most (the total bandwidth 64M)
Effective Distance Vehicle (4.0 m × 1.4 m)	D: 558 m (1830.71 ft) R: 147 m (482.28 ft) I: 74 m (242.78 ft)	D: 1020 m (3346.47 ft) R: 255 m	D: 1961 m (6433.73 ft) R: 490 m (1607.61 ft) I: 245 m (803.81 ft)		Security	Authorized username and password; attached MAC address; encrypted HTTPS; IEEE 802.1x; controlled network access
		(836.61 ft) I: 127 m (416.67 ft)			User Management	Support 20 users at most and users are classified as two groups-administrator group and user group
Focus Mode	Athermalized	Athermalized			Malfunction Detection	Network disconnection; IP addresses conflict; SD card error (status or storage space)
Aperture	F1.0	F1.0			Certification	
Digital Detail Enhancement (DDE)	Yes	Yes			Certifications	CE; FCC
Image Stabilization	Electronic Image Stabilization				Port	
Digital Zoom	19×				Analog Video Output	1 channel of CVBS output with BNC port
AGC	Auto; Manual				Network	1 10M/100M Ethernet port (RJ-45)
Noise Reduction	2D NR; 3D NR				Audio Input	1
Image Flip	90°/180°/mirror				Audio Output	1
Intelligence				Alarm Input	2	
	Fire Detection & Alarm Cold & Hot Spot Trace				Alarm Output	2
Advanced Intelligence	Tripwire & Intru	Tripwire & Intrusion Human & Vehicle Classification			RS-485	1 pair
Temperature Measurem	ent				Power	
, 2 6464. 6111	Low Temperatu	ure Mode:-20°C to	) +150°C (-4°F to		Power Supply	12V±20% DC, 1.2A, PoE (802.3af), ePoE
Temperature Range		+302°F) High Temperature Mode: 0°C to +550°C (+34°F to +1022°F)			Power Consumption	Basic: 5.0W Maximum: 13W (power adapter excluded)
Tomporature Accuracy	, ,	Max (±2°C, ±2%) Operating Temperature:-20°C to +60°C (-4°F to +140°F)			Environment	
Temperature Accuracy					Operating Temperature	-40°C to +70°C (-40°F to +158°F)
	Spot: 12 Line: 12				Operating Humidity	≤95%
Temperature Mode	Area: 12	es simultaneously			Self-Adaptive	Auto heating to protect the chip under the cold environment
Video and Audio					Physical Characteristics	
Video Compression	H.265/H.264M	H.265/H.264M/H.264H/H.264B/MJEPG			Protection Grade	IP67, anti-surge 6KV, anti-elctrostatic 8KV (touched by objects), anti-elctrostatic 15KV (air)
Recolution	Main Stream: SXGA (1280 × 1024)/960P (1280 × 960)/720P (1280 × 720)/400 × 300, 1280 × 960 by default Sub Stream: 640 × 512/640 × 480/400 × 300, 400 × 300 by default				Product Dimensions (L $\times$ W $\times$ H)	291 mm × 103.7 mm × 97 mm(11.46" × 4.06" × 3.82")
Resolution					Packaging Dimensions (L × W × H)	365 mm × 175 mm × 176 mm (14.37" × 6.89" × 6.93")

# Pro Series | DH-TPC-BF5401-T

Net Weight	≤1.4 kg (3.09 lb)
Gross Weight	≤1.9 kg (4.19 lb)
Lens	Contained
Power Adaptor	Selectable

Ordering Information						
Туре	Model	Description				
DH-TPC- BF5401-T	DH-TPC-BF5401P-TB7	(with temperature measurement				
	DH-TPC-BF5401N-TB7	function) Thermal: 400 × 300 7.5 mm lens				
	DH-TPC-BF5401P-TB13	(with temperature measurement function) Thermal: 400 × 300 13 mm lens				
	DH-TPC-BF5401N-TB13					
	DH-TPC-BF5401P-TB25	(with temperature measurement				
	DH-TPC-BF5401N-TB25	function) Thermal: 400 × 300 25 mm lens				

# Accessories







DH-PFA121-V2

DH-PFA151

DH-PFA152-E

Wall Mount	Corner Mount	Pole Mount
PFA121	PFA121+PFA151	PFA121+PFA152-E

# Dimensions (mm[inch])





