

DH-TPC-BF5401-T

Thermal Network Bullet Camera



- \cdot 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 (<40 mK) 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 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.



Technic	al Spec	ification				Main shares
Thermal					Resolution	Main stream: (1280 × 1024/1280 × 960/1280 × 720/400 × 300), 1280 × 960 by default; Sub stream: (640 × 512/640 × 480/400 × 300@), 400 × 300 by default
Detector Type			Vanadium oxide uncooled focal plane detector		Resolution	
Effective Pixels			400 × 300		Audio Compression	G.711a; G.711mu; AAC; PCM
Pixel Pitch			17 μm		Image Encoding Format	JPEG
Spectral Range			8 μm-14 μm		General Function	
Thermal Sensitivity (NETD)			≤40 mK		Two-way Talk	Yes
Focal Length			7.5 mm; 13 mm; 25 mm			HTTP; TCP; ARP; RTSP; RTP; UDP; RTCP;
Field of View			7.5 mm: horizontal: 53.7°, vertical: 39.7° 13 mm: horizontal: 30°, vertical: 22.6° 25 mm: horizontal: 15.5°, vertical: 11.6°		Network Protocol	SMTP; FTP; DHCP; DNS; DDNS; PPPOE; IPv4/v6; SNMP; QoS; UPnP; NTP
Focus Mo	de		Fixed-focal		Region of Interest (ROI)	Yes
Aperture			F1.0		Edge Storage	FTP; Micro SD card (256G, hot plug)
	Lens	Detection	Recognition	Identification	Interoperability	ONVIF; CGI; Dahua SDK
	7.5 mm	Vehicle: 558 m (21968.50 ft) Human: 221 m (8700.78 ft)	Vehicle: 147 m (5787.40 ft) Human: 57 m	Vehicle: 74 m (2913.39 ft) Human: 28 m (1102.36 ft)	Browser	IE: IE8 and the later, and explorer with IE core Google: 42 and the earlier Firefox: 42 and the earlier Safari: 10 and the earlier
DRI Distance			(2244.10 ft)		User/Host	20 channels at most (the total bandwidth 64M)
Based on the reference: human (1.8 m × 0.5 m) vehicle (4 m × 1.4 m)	13 mm	Vehicle: 1020 m (40157.48 ft) Human: 382 m (15039.37 ft)	Vehicle: 255 m (10039.37 ft) Human: 98 m (3858.27 ft)	Vehicle: 127 m (5000.00 ft) Human: 49 m (1929.13 ft)	Security	Authorized username and password; attached MAC address; encrypted HTTPS; IEEE 802.1x; controlled network access
		Vehicle: 1961 m Ve (77204.72 ft) (19 Human: 735 m Hu	Vehicle: 490 m	Vehicle: 245 m (9645.67 ft) Human: 95 m (3740.16 ft)	User Management	Support 20 users at most and users are classified as two groups-administrator group and user group.
	25 mm		(19291.34 ft) Human: 189 m (7440.95 ft)		Malfunction Detection	Network disconnection; IP addresses conflict; SD card error (status or storage space)
Digital De	Digital Detail Enhancement (DDE) Yes		Professional and Intelligent			
Thermal Image Stabilization			Electronic Image Stabilization		Advanced Intelligent Functions	Fire detection & alarm, Cold/Hot spot tracking, Human/Vehicle classification, Auto
AGC			Auto; manual			Tracking
Noise Reduction			2D NR; 3D NR 90°/180°/mirror		IVS Analytics	Tripwire/intrusion
Image Flip			18 color modes selectable such as Whitehot/		Port	
Color Palettes			Blackhot/Ironrow/Icefire.		Analog Video Output	1 channel of CVBS output with BNC port
Temperature Measurement Range			Low temperature mode: -20°C (-4°F) to +150°C (302°F) High temperature mode: 0°C (34°F) to +550°C (1022°F)		Network	1 10M/100M Ethernet port (RJ-45)
					Alarm Input	2 channels
Temperature Accuracy Temperature Mode			Max (±2°C, ±2%) Operating temperature: -20°C (-4°F) to +60°C (140°F) Spot: 12 Line: 12 Area: 12 Support 12 rules simultaneously		Alarm Output	2 channels
					Audio Input	1 channel
					Audio Output	1 channel
					Alarm Linkage	SD card recording/on-off output/ siren and light/email/PTZ/snapshot
Audio and Video Video Compression			H.265; H.264; H.264H; H.264B; MJPEG		Alarm Event	Motion detection/privacy mask/audio detection/SD card abnormality/network
video compression			11.203, 11.204, 11.2041, 11.204B; MIJPEG			abnormality/anti-burn warning

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RS-485	1 channel	
Power		
Power Supply	12V±20% DC, 1.2A, PoE (802.3af), ePoE	
Power Consumption	Basic: 5.0W Maximum: 13W (power adapter excluded)	
Environment		
Operating Temperature	-40°C to +70°C (-40°F to 158°F)	
Operating Humidity	≤95%	
Storage Temperature	-50°Cto +80°C (-58°F to 176°F)	
Self-Adaptive	Auto heating to protect the chip under the cold environment	
Physical Characteristics		
Protection Grade	IP67, anti-surge 6KV, anti-elctrostatic 8KV (touched by objects), anti-elctrostatic 15KV (air)	
Dimensions	291 mm × 103.7 mm × 97 mm (11.46" × 4.06" × 3.82")	
Packaging Dimensions	365 mm × 175 mm × 176 mm (14.37" × 6.89" × 6.93")	
Net Weight	≤1.4 kg (3.09 lb)	
Gross Weight	≤1.9 kg (4.19 lb)	1
Power Adaptor	Selectable	
Lens	Contained	
Certification		
Certifications	CE; FCC	

Accessories







DH-PFA121-V2

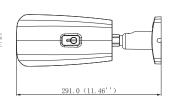
DH-PFA151

DH-PFA152-E

Wall Mount	Corner Mount	Pole Mount	
PFA121	PFA121+PFA151	PFA121+PFA150	

Dimensions (mm [inch])







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

