

DH-TPC-BF5421-T

Thermal Body Temperature Measurement Camera



- \cdot 400 \times 300 uncooled VOx thermal sensor technology
- · Athermalized lens (thermal), focus-free
- · Support body temperature measurement
- · Measurement Accuracy: ±0.3°C, with blackbody
- · Active deterrence with white light & siren
- · 2/1 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 body temperature measurement.

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.

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.

Body Temperature Measurement

Dahua thermal cameras characterized by non-contact, multi-objective, rapid, and no risk to temperature testers, etc. It can be conveniently deployed in public places with dense personnel, and can be used for efficient and safe preliminary screening of temperature anomalies.



Technical Specification			Thermal	
Thermal			Main stream: (1280 × 1024/1024 × 768/640 × 480/256 × 192@), 1280 × 960 by default; Sub stream: (640 × 512/256 × 192@), 256 × 192 by default Visible	
Detector Type	Vanadium oxide uncooled focal plane detector	Resolution		
Effective Pixels	400 × 300		Main stream: (1920 × 1080/1280 × 720/704 × 576@), 1920 × 1080 by default;	
Pixel Pitch	17 μm		Sub stream: (704 × 576/352 × 288@), 355 x 288 by default	
Spectral Range	8 μm-14 μm		Thermal:	
Thermal Sensitivity (NETD)	≤40 mK@f/1.0		50Hz: Main stream (1fps-25fps),25fps by default;	
Focal Length	13 mm		sub stream (1fps-25fps),15fps by default; 60Hz:	
Field of View	13 mm: horizontal: 30°, vertical: 22.6°	Frame Rate	Main stream (1fps-30fps),30fps by default; sub stream (1fps-30fps),15fps by default; Visual:	
Focus Mode	Fixed-focal		50Hz: Main stream (1fps-25fps),25fps by default;	
Aperture	F1.0		sub stream (1fps-25fps),15fps by default; 60Hz:	
Digital Detail Enhancement (DDE)	Yes		Main stream (1fps-30fps),30fps by default; sub stream (1fps-30fps),15fps by default;	
Thermal Image Stabilization	Electronic Image Stabilization	Audio Compression	G.711a; G.711mu; AAC; PCM	
AGC	Auto; manual	Image Encoding Format JPEG		
Noise Reduction	2D NR; 3D NR	General Function		
Image Flip	90°/180°/mirror	Two-way Talk	Yes	
Color Palettes	18 color modes selectable such as Whitehot/Blackhot/Ironrow/Icefire.	Network Protocol	HTTP; TCP; ARP; RTSP; RTP; UDP; RTCP; SMTP; FTP; DHCP; DNS; DDNS; PPPOE; IPv4/ v6; SNMP; QoS; UPnP; NTP	
Temperature Measurement Range	30°C ~+45°C(86 F ~113 F)	Region of Interest (ROI)	Yes	
		Edge Storage	FTP; Micro SD card (256G, hot plug)	
Temperature Accuracy	±0.3°C with blackbody	Interoperability	CGI; Dahua SDK	
Temperature Mode	Spot: 12 Line: 12 Area: 12 Support 12 rules simultaneously	Browser	IE: IE9 and the later, Google: 42 and the earlier Firefox: 52 and the earlier	
Visible				
Image Sensor	1/2.8" 2M CMOS	User/Host	20 channels at most (the total bandwidth 64M)	
Effective Pixels	1920(H)x1080(V)		Authorized username and password;	
Electronic Shutter Speed	1/1 ~ 1/30,000s	Security	attached MAC address; encrypted HTTPS; IEEE 802.1x; controlled network access	
Min. Illumination	Color: 0.005Lux; B/W: 0.0005Lux; OLux (IR on)	User Management	Support 20 users at most and users are classified as two groups-administrator group and user group.	
IR Distance	≥50m		Network disconnection; IP addresses	
IR On/Off Control	Auto/Manual	Malfunction Detection	conflict; SD card error (status or storage space)	
IR LEDs	1	Port		
Focal Length	8mm			
Max Aperture	F2.0	Analog Video Output 1 channel Network 1 10M/100M Ethernet port (RJ-45)		
Angle of View	H: 40° V: 22°		1 10M/100M Ethernet port (RJ-45)	
Audio and Video		Alarm Input	2 channels	
Video Compression H.265; H.264; H.264H; H.264B; MJPEG		Alarm Output	1 channel	
		Audio Input	1 channel	
		Audio Output	1 channel	

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Alarm Linkage	Record/Snatch/IO trigger/Sound-light alarm/ Email
Alarm Event	No SD card; SD card full; SD card error; network disconnection; IP conflict; illegal access; motion detection; video tampering; tripwire; intrusion; audio abnormal; security exception; Temperature Measurement; blackbody exception
RS-485	1 channel
Power	
Power Supply	12V±20% DC, 1.2A, PoE (802.3af), ePoE
Power Consumption	Basic: 5.0W Maximum: 12W (power adapter excluded)
Environment	
Operating Temperature	10°C to +30°C
Storage Temperature	-40°C to +70°C
Operating Humidity	≤95%
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)
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)
Certification	
Certifications	CE; FCC

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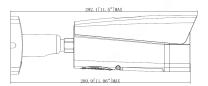
DH-PFA121-V2

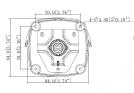
DH-PFA151

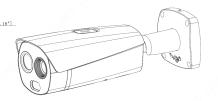
DH-PFA152-E

Dimensions (mm [inch])









Ordering Information					
Туре	Part Number	Description			
DH-TPC-	DH-TPC-BF5421P-TD13F8	(with temperature measurement function)			
BF5421-T	DH-TPC-BF5421N-TD13F8	Thermal: 400 × 300 13 mm lens			

