

DH-TPC-BF5421-T

Thermal Network Bullet 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
- \cdot Active deterrence with white light & siren
- · Various lens optional (7.5/13 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 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 Detector Type	Vanadium oxide uncooled focal plane detector	Resolution	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 Main stream: (1920 × 1080/1280 × 720/704 × 576@), 1920 × 1080 by default; Sub stream: (704 × 576/352 × 288@), 355 × 288 by default	
Effective Pixels Pixel Pitch	400 × 300 17 μm			
Spectral Range	8 μm–14 μm	Audio Compression	G.711a; G.711mu; AAC; PCM	
Thermal Sensitivity (NETD)	≤40 mK	Image Encoding Format	JPEG	
Focal Length	13 mm	General Function	neral Function	
Field of View	13 mm: horizontal: 30°, vertical: 22.6°	Two-way Talk	Yes	
Focus Mode	Fixed-focal	Network Protocol	HTTP; TCP; ARP; RTSP; RTP; UDP; RTCP; SMTP; FTP; DHCP; DNS; DDNS; PPPOE; IPv4/ v6; SNMP; QoS; UPnP; NTP	
Aperture	F1.0	Region of Interest (ROI)	Yes	
Digital Detail Enhancement (DDE)	Yes	Edge Storage	FTP; Micro SD card (256G, hot plug)	
Thermal Image Stabilization	Electronic Image Stabilization	Interoperability	ONVIF; CGI; Dahua SDK	
AGC	Auto; manual	' '		
Noise Reduction	2D NR; 3D NR	Browser	IE: IE8 and the later, and explorer with IE core Google: 42 and the earlier Firefox: 42 and the earlier	
Image Flip	90°/180°/mirror		Safari: 10 and the earlier	
Color Palettes	18 color modes selectable such as Whitehot/Blackhot/Ironrow/Icefire.	User/Host	20 channels at most (the total bandwidth 64M)	
Temperature Measurement Range	30°C ~+45°C	Security	Authorized username and password; attached MAC address; encrypted HTTPS; IEEE 802.1x; controlled network access	
Temperature Accuracy Temperature Mode	Max ±0.3°C with blackbody Max ±1°C without blackbody Spot: 12 Line: 12	User Management	Support 20 users at most and users are classified as two groups-administrator group and user group.	
·	Area: 12 Support 12 rules simultaneously	Malfunction Detection	Network disconnection; IP addresses conflict; SD card error (status or storage	
Visible	4/2 0 244 04400		space)	
Image Sensor	1/2.8" 2M CMOS	Port		
Effective Pixels	1920(H)x1080(V)	Analog Video Output	1 channel of CVBS output with BNC port	
Electronic Shutter Speed	1/1 ~ 1/30,000s	Network	1 10M/100M Ethernet port (RJ-45)	
Min. Illumination	Color: 0.002Lux; B/W: 0.0002Lux; OLux (IR on)	Alarm Input	2 channels	
IR Distance	35m	Alarm Output	2 channels	
IR On/Off Control	Auto/Manual	Audio Input	1 channel	
		Audio Output	1 channel	
IR LEDs Focal Length	1 8mm	Alarm Linkage	SD card recording/on-off output/ siren and light/email/PTZ/snapshot	
Max Aperture	F1.9	Alarm Event	Motion detection/privacy mask/audio detection/SD card abnormality/network	
Angle of View	H: 40° V: 22°	DC 40F	abnormality/anti-burn warning	
Audio and Video		RS-485	1 channel	
Video Compression	H.265; H.264; H.264H; H.264B; MJPEG	Power		
		Power Supply	12V±20% DC, 1.2A, PoE (802.3af), ePoE	

Pro Series | DH-TPC-BF5421-T

Power Consumption	Basic: 5.0W Maximum: 12W (power adapter excluded)			
Environment				
Operating Temperature	10°C to +30°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 \times 175 mm \times 176 mm (14.37" \times 6.89" \times 6.93")
Net Weight	≤1.4 kg (3.09 lb)
Gross Weight	≤1.9 kg (4.19 lb)
Power Adaptor	Selectable
Lens	Contained

Certification

Certifications	CE; FCC
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Ordering Information Type Part Number Description DH-TPC-BF5421P-TB13F8 BF5421-T (with temperature measurement function) Thermal: 400 × 300 13 mm lens

Accessories







DH-PFA121-V2

DH-PFA151

DH-PFA152-E

Dimensions (mm [inch])





