

# 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
- · 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	(1280 × 1 192@), 1 Sub stree Resolution 192 by di Visible Main stre × 576@), Sub stree	
Effective Pixels  Pixel Pitch	400 × 300 17 μm		Main stream: (1920 × 1080/1280 × 720/704 × 576@), 1920 × 1080 by default; Sub stream: (704 × 576/352 × 288@), 355 x 288 by default
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	
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	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.
Temperature Mode	Area: 12 Support 12 rules simultaneously	Malfunction Detection	Network disconnection; IP addresses conflict; SD card error (status or storage
Visible			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°		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	
Storage Temperature	-40°C to +70°C	
Operating Humidity	≤95%	
Self-Adaptive	Auto heating to protect the chip under the cold environment	
Physical Characteristics		

### **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- ECC
Certifications	CE; FCC

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

# Accessories







DH-PFA121-V2

DH-PFA151

DH-PFA152-E

# Dimensions (mm [inch])









