

DH-TPC-BF5421-T

Thermal Network Bullet Camera



- \cdot 400 × 300 uncooled VOx thermal sensor technology
- · Athermalized lens (thermal), focus-free
- · Support body temperature measurement
- · Measurement Accuracy: ±0.1°C, with blackbody
- · 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 Main stream:	
Thermal			(1280 × 1024/1024 × 768/640 × 480/256 × 192@), 1280 × 960 by default;	
Detector Type	Vanadium oxide uncooled focal plane detector	Resolution	Sub stream: (640 × 512/256 × 192@), 256 × 192 by default Visible	
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	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 HTTP; TCP; ARP; RTSP; RTP; UDP; RTCP;	
Focus Mode	Fixed-focal	Network Protocol	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		IE: IE8 and the later, and explorer with IE core	
Noise Reduction	2D NR; 3D NR	Browser	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 ±0.1°C with blackbody Max ±1°C without blackbody	User Management	Support 20 users at most and users are classified as two groups-administrator group	
Temperature Mode	Spot: 12 Line: 12 Area: 12 Support 12 rules simultaneously	oser management	and user group. Network disconnection; IP addresses	
Visible	Support 12 rules simultaneously	Malfunction Detection	conflict; SD card error (status or storage 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; 0Lux (IR on)	Alarm Input	2 channels	
	,	Alarm Output	2 channels	
IR Distance	35m	Audio Input	1 channel	
IR On/Off Control	Auto/Manual	Audio Output	1 channel	
IR LEDs	1	Alarm Linkage Alarm Event	SD card recording/on-off output/	
Focal Length	8mm		siren and light/email/PTZ/snapshot	
Max Aperture Angle of View	F1.9 H: 40° V: 22°		Motion detection/privacy mask/audio detection/SD card abnormality/network abnormality/anti-burn warning	
Audio and Video	10 11.22	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 × 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)
Power Adaptor	Selectable
Lens	Contained

Certification

Certifications

Ordering Information				
Туре	Part Number	Description		
DH-TPC- BF5421-T	DH-TPC-BF5421P-TB13F8	(with temperature measurement function)		
	DH-TPC-BF5421N-TB13F8	Thermal: 400 × 300 13 mm lens		

CE; FCC

Accessories







DH-PFA121-V2

DH-PFA151

DH-PFA152-E

Dimensions (mm [inch])



