

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: ±0.3°C, with blackbody
- $\cdot\,$ Active deterrence with white light & siren
- · Various lens optional (7.5/13 mm)
- \cdot 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.



Pro Series | DH-TPC-BF5421-T

Technical Specification Thermal Vanadium oxide uncooled focal plane Detector Type detector 400 × 300 Effective Pixels Pixel Pitch 17 µm Spectral Range 8 μm–14 μm Thermal Sensitivity (NETD) ≤40 mK Focal Length 13 mm Field of View 13 mm: horizontal: 30°, vertical: 22.6° Fixed-focal Focus Mode

Digital Detail Enhancement (DDE) Yes Electronic Image Stabilization Thermal Image Stabilization Auto; manual Noise Reduction 2D NR; 3D NR 90°/180°/mirror 18 color modes selectable such as Whitehot/ Blackhot/Ironrow/Icefire. 30°C ~+45°C Measurement Range Max ±0.3°C with blackbody Temperature Accuracy Max ±1°C without blackbody Spot: 12 Line: 12 Temperature Mode Area: 12 Support 12 rules simultaneously

F1.0

Visible

Aperture

AGC

Image Flip

Color Palettes

Temperature

Image Sensor	1/2.8" 2M CMOS
Effective Pixels	1920(H)x1080(V)
Electronic Shutter Speed	1/1~1/30,000s
Min. Illumination	Color: 0.002Lux; B/W: 0.0002Lux; 0Lux (IR on)
IR Distance	35m
IR On/Off Control	Auto/Manual
IR LEDs	1
Focal Length	8mm
Max Aperture	F1.9
Angle of View	H: 40° V: 22°
Audio and Video	
Video Compression	H.265; H.264; H.264H; H.264B; MJPEG

Resolution	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 Main stream: (1920 × 1080/1280 × 720/704 × 576@), 1920 × 1080 by default; Sub stream: (704 × 576/352 × 288@), 355 x 288 by default	
Audio Compression	G.711a; G.711mu; AAC; PCM	
Image Encoding Format	JPEG	
General Function		
Two-way Talk	Yes	
Network Protocol	HTTP; TCP; ARP; RTSP; RTP; UDP; RTCP; SMTP; FTP; DHCP; DNS; DDNS; PPPOE; IPv4/ v6; SNMP; QoS; UPnP; NTP	
Region of Interest (ROI)	Yes	
Edge Storage	FTP; Micro SD card (256G, hot plug)	
Interoperability	ONVIF; CGI; Dahua SDK	
Browser	E: IE8 and the later, and explorer with IE core Google: 42 and the earlier Firefox: 42 and the earlier	
	Safari: 10 and the earlier 20 channels at most (the total bandwidth	
User/Host	64M)	
Security	Authorized username and password; attached MAC address; encrypted HTTPS; IEEE 802.1x; controlled network access	
User Management	Support 20 users at most and users are classified as two groups-administrator group and user group.	
Malfunction Detection	Network disconnection; IP addresses conflict; SD card error (status or storage space)	
Port		
Analog Video Output	1 channel of CVBS output with BNC port	
Network	1 10M/100M Ethernet port (RJ-45)	
	2 channels	
Alarm Output		
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	
Alarm Event	Motion detection/privacy mask/audio detection/SD card abnormality/network abnormality/anti-burn warning	
RS-485	1 channel	
Power		
Power Supply	12V±20% DC, 1.2A, PoE (802.3af), ePoE	

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Power Consumption	Basic: 5.0W Maximum: 12W (power adapter excluded)	Accessories		
Environment		e e		
Operating Temperature	10°C to +30°C			
Operating Humidity	≤95%			
Self-Adaptive	Auto heating to protect the chip under the cold environment	DH-PFA121-V2	DH-PFA151	DH-PFA152-E
Physical Characteristics		Dimensions (mm [i	inch])	
Protection Grade	IP67, anti-surge 6KV, anti-elctrostatic 8KV (touched by objects), anti-elctrostatic 15KV (air)	280. 0	[11. 02'']	70[2.76'']
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		10.49'']	<u>/4-Ø4.50[0.177'']</u>
Lens	Contained	. 103.5[4.07'']		
Certification			(Oa)	Pall
Certifications	CE; FCC	-1.1.2. E18.36		6 200

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	



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