

DH-TPC-BF5421-T

Thermal Body Temperature Measurement Camera



- -400 × 300 uncooled VOx thermal sensor technology
- -Athermalized lens (thermal), focus-free
- -Support body temperature measurement
- -Support ROI, Motion Detection, Color Palettes
- -Measurement Accuracy: ±0.3°C, with blackbody
- -Active deterrence with white light & siren
- -Built-in 2/1 alarm in/out
- -Micro SD memory, IP67, PoE,ePoE













System Overview

Featuring a dual lens, fixed bullet camera, this series provides an all-in-one solution for capturing video surveillance for indoor and outdoor applications. Together with Thermal and Visible Technology, that is especially beneficial for body temperature measurement. the camera is the perfect solution for dark, small area monitoring applications. The series combines one thermal camera for monitoring in total darkness and one visible camera with Smart IR for confirming details.

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 (<40mK) allows cameras to capture more image details and temperature difference information.

Protection

The cameras allow for wide input voltage tolerance, suitable for the most unstable condition for out door applications, Its 6KV lightning rate 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 place with dense personnel, and can be used for efficient and safe preliminary screening of temperature anomalies.



Technical Specification		Aperture	F1.9
Thermal		Angle of View	H: 40° V: 22°
Detector Type	Vanadium oxide uncooled focal plane detector	Audio and Video	
Effective Pixels	400 x 300	Video Compression	H.265; H.264; H.264H; H.264B; MJPEC
Pixel Pitch	17 μm	Resolution	Thermal(2 Streams) Main stream:
pectral Range	8 μm – 14 μm		(1280 × 1024/1024 × 768/640 × 480/2 192@), 1280 × 960 by default; Sub stream: (640 × 512/256 × 192@),
hermal Sensitive (NETD)	≤40 mK		192 by default Visible(2 Streams) Main stream: (1920 × 1080/1280 × 72
ocal Length	13 mm		× 576@), 1920 × 1080 by default; Sub stream: (704 × 576/352 × 288@), 288 by default
ield of View	13 mm : Horizontal : 30°, Vertical : 22.6°	Frame Rate	Thermal:
ocus Mode	Fixed - Focal		50Hz: Main stream (1fps-25fps),25fps by de sub stream (1fps-25fps),15fps by defa 60Hz:
perture	F1.0		Main stream (1fps-30fps),30fps by de sub stream (1fps-30fps),15fps by defa Visual:
igital Detail Enhancement (DDE)	Yes		50Hz: Main stream (1fps-25fps),25fps by de sub stream (1fps-25fps),15fps by defa
hermal Image Stabilization	Electronic image Stabilization		60Hz: Main stream (1fps-30fps),30fps by def sub stream (1fps-30fps),15fps by defa
GC	Auto, Manual	Day/Night	Auto(ICR)/Color/B/W
loise Reduction	2D NR; 3D NR	BLC Mode	BLC/HLC/WDR
mage Flip	90° / 180° / miror	Audio Compression	G.711a; G.711mu; AAC; PCM
olor Palettes	18 color modes selectable such as Whitehot/ Blackhot/Ironrow/Icefire.	Image Encoding Format	JPEG
emperature Measurement Range	30°C ~+45°C	General Function	
emperature Accuracy	Max ±0.3°C with blackbody Max ±1°C without blackbody		
		Two-way Talk	Yes
emperature Mode	Spot: 12 Line: 12 Area: 12 Support 12 rules simultaneously	Network Protocol	HTTP; TCP; ARP; RTSP; RTP; UDP; RTC FTP; DHCP; DNS; DDNS; PPPOE; IPv4/vi QoS; UPnP; NTP; HTTPS; IEEE802.1X
/isible		Region of Interest (ROI) & Automatic Motion Detection	Yes
mage Sensor	1/2.8" 2M CMOS	Edge Storage	FTP; Micro SD card (256G, hot plug)
ffective Pixels	1920(H)×1080(V)	Interoperability	CGI; Dahua SDK; ONVIF
lectronic Shutter Speed	1/1 ~ 1/30,000s	Browser	IE: IE8 and the later, and explorer with core Google: 42 and the earlier
ліп. illumination	Color: 0.002Lux; B/W: 0.0002Lux; 0Lux (IR on)		Firefox: 42 and the earlier Safari: 10 and the earlier
R Distance	35M	User/Host	20 channels at most (the total bandw 64M)
R On/Off Control	Auto / Manual	Security	Authorized username and password; attached MAC address; encrypted HT IEEE 802.1x; controlled network acces
R LEDs	1	User Management	Support 20 users at most and users at
ocal Length	8mm	озен манадешени	classified as two groups-administrator and user group.

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Malfunction Detection	Network disconnection; IP addresses conflict; SD card error (status or storage space)

Port

Network	1 10M/100M Ethernet port (RJ-45)
Alarm Input	2 channels
Alarm Output	1channel
Audio Input	1 channel
Audio Output	1 channel
Alarm Linkage	SD card recording/on-off output/ siren and light/email/PTZ/snapshot
Alarm Event	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(IEEE802.3af), 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	365mm×175mm×176mm(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

Certification

Certifications	CE, FCC

Ordering Informati	on	
Туре	Part Number	Description
DH-TPC- BF5421-T	DH-TPC-BF5421P-TB13F8	(with temperature measurement) Thermal: 400 × 300, 13 mm lens, PAL
	DH-TPC-BF5421N-TB13F8	(with temperature measurement) Thermal: 400 × 300, 13 mm lens, NTSC

Accessories



Dimensions (mm [inch])



