DH-TPC-BF5421-T

Thermal Network Bullet Camera

· 400 × 300 uncooled VOx thermal sensor technology·
Athermalized lens (thermal), focus-free

· Supports object surface temperature measurement
Supports biological surface temperature measurement

· Measurement Accuracy: ±0.3°C, with blackbody

· Active deterrence with white light & siren

· 2/2 alarm in/out

· IP67, PoE,ePoE

System Overview

Featuring a fixed lens bullet camera, this series provides an all-in-one solution . This series is designed for security screening.

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.

Temperature Measurement

Dahua thermal cameras characterized by non-contact, mult-objectve, rapid, and no risk For detec object and biological temperature .
This product is not for medical use

Technical Specification

Thermal

Detector Type	Vanadium oxide uncooled focal plane detector
Effective Pixels	400 × 300
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°
Focus Mode	Fixed-focal
Aperture	F1.0
Digital Detail Enhancement (DDE)	Yes
Thermal Image Stabilization	Electronic Image Stabilization
AGC	Auto; manual
Noise Reduction	2D NR; 3D NR
Image Flip	90°/180°/mirror
Color Palettes	18 color modes selectable such as Whitehot/Blackhot/Ironrow/Icefire.
Temperature Measurement Range	30°C ~+45°C
Temperature Accuracy	Max ±0.3°C with blackbody Max ±1°C without blackbody
Temperature Mode	Spot: 12 Line: 12 Area: 12 Support 12 rules simultaneously

Visible

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
Storage	FTP
Interoperability	ONVIF; CGI; Dahua SDK
Browser	IE: IE8 and the later, and explorer with IE core Google: 42 and the earlier Firefox: 42 and the earlier Safari: 10 and the earlier
User/Host	20 channels at most (the total bandwidth 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

Port

Analog Video Output	1 channel of CVBS output with BNC port
Network	1 10M/100M Ethernet port (RJ-45)
Alarm Input	2 channels
Alarm Output	2 channels
Audio Input	1 channel
Audio Output	1 channel
Alarm Linkage	Output/siren and light/email/PTZ/snapshot
Alarm Event	Motion detection/privacy mask/audio detection/network abnormality/anti-burn warning
RS-485	1 channel

Power

Power Supply	12V±20% DC, 1.2A, PoE (802.3af), 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	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	CE; FCC

Ordering Information

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

Accessories

DH-PFA121-V2

DH-PFA151

DH-PFA152-E

Dimensions (mm [inch])

103.8[1.09"]
96.7[3.81"]
292.1[11.5"]MAX
280.9[11.06"]MAX
70.0[2.76"]
4-Ø4.50[Ø0.18"]
94.9[3.74"]
70.0[2.76"]
94.9[3.74"]

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