

# 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<br>Main stream:<br>(1280 × 1024/1024 × 768/640 × 480/256 ×<br>192@), 1280 × 960 by default;<br>Sub stream: (640 × 512/256 × 192@), 256 ×<br>192 by default<br>Visible<br>Main stream: (1920 × 1080/1280 × 720/704<br>× 576@), 1920 × 1080 by default;<br>Sub stream: (704 × 576/352 × 288@), 355 x<br>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;<br>SMTP; FTP; DHCP; DNS; DDNS; PPPOE; IPv4/<br>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<br>Google: 42 and the earlier<br>Firefox: 42 and the earlier   |  |
|                          | Safari: 10 and the earlier<br>20 channels at most (the total bandwidth   |  |
| User/Host                | 64M)   |  |
| Security                 | Authorized username and password;<br>attached MAC address; encrypted HTTPS;<br>IEEE 802.1x; controlled network access  |  |
| User Management          | Support 20 users at most and users are<br>classified as two groups-administrator group<br>and user group.  |  |
| Malfunction Detection    | Network disconnection; IP addresses<br>conflict; SD card error (status or storage<br>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/<br>siren and light/email/PTZ/snapshot   |  |
| Alarm Event              | Motion detection/privacy mask/audio<br>detection/SD card abnormality/network<br>abnormality/anti-burn warning  |  |
| RS-485                   | 1 channel  |  |
| Power                    |  |  |
| Power Supply             | 12V±20% DC, 1.2A, PoE (802.3af), ePoE  |  |
|                          |  |  |

## Pro Series | DH-TPC-BF5421-T

| Power Consumption        | Basic: 5.0W<br>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<br>(touched by objects), anti-elctrostatic 15KV<br>(air) | 280. 0            | [11. 02''] | 70[2.76'']               |
| Packaging Dimensions     | 365 mm × 175 mm × 176 mm (14.37" × 6.89"<br>× 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-<br>BF5421-T | DH-TPC-BF5421P-TB13F8 | (with temperature measurement function) |  |
|                     | DH-TPC-BF5421N-TB13F8 | Thermal: 400 × 300 13 mm lens           |  |



Rev 001.001 © 2019 Dahua. All rights reserved. Design and specifications are subject to change without notice. Pictures in the document are for reference only, and the actual product shall prevail.