

# DH-TPC-BF5401

Thermal Network Bullet Camera

[www.PadVokam.by](http://www.PadVokam.by)

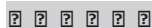


- 400x300 VOx uncooled thermal sensor technology
- Athermalized Lens (thermal), Focus-free
- Support Fire detection & alarm
- Various lens optional (7.5/13/25/35mm)
- 2/2 alarm in/out
- Micro SD memory, IP67, PoE, ePoE



## System Overview

Featuring a fixed lens bullet camera, this series provides an all-in-one solution that is especially beneficial for long distance video surveillance in outdoor applications. Together with Thermal technology, the camera's long range capabilities are able to be utilized even at night.



### 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.

### Fire Detection & Alarm

With built-in fire detection functionality, the camera has the ability to detect fires from long range. Because thermal cameras are sensitive to temperature, they provide higher fire detection accuracy than standard cameras, making them particularly fit for applications such as forest fire prevention.

### Intelligent Video System (IVS)

IVS is a built-in video analytics algorithm that delivers intelligent functions to monitor a scene for tripwire violations, intrusion detection, and abandoned or missing objects. A camera with IVS quickly and accurately responds to monitoring events in a specific area.

## Environmental

With a temperature range of -40 °C to +70 °C (-40 °F to +158 °F), the camera is designed for extreme temperature environments. Subjected and certified to rigorous dust and water immersion tests, the IP67 rating makes it suitable for demanding outdoor applications.

## Protection

The camera allows for  $\pm 15\%$  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.

## Technical Specifications

## Thermal Camera

|                           |                                                                                            |
|---------------------------|--------------------------------------------------------------------------------------------|
| Image Sensor              | Uncooled VOx Microbolometer                                                                |
| Effective Pixels          | 400(H)x300(V)                                                                              |
| Pixel Size                | 17um                                                                                       |
| Thermal Sensitivity(NETD) | 40mK                                                                                       |
| Spectral Range            | 8~14um                                                                                     |
| Image Setting             | Brightness/Sharpness/ROI/AGC/FFC/3D DNR                                                    |
| Color Palettes            | 18(Whitehot/Blackhot/Ironrow/Icefire/<br>Fusion/Rainbow/Globow/Iconbow1/<br>Iconbow2 .etc) |

## Thermal Lens

|                                                   |                                                                       |                               |                                |                                |
|---------------------------------------------------|-----------------------------------------------------------------------|-------------------------------|--------------------------------|--------------------------------|
| Lens Type                                         | Fixed/F1.0                                                            |                               |                                |                                |
| Focus Control                                     | Athermalized, Focus-free                                              |                               |                                |                                |
| Focal Length                                      | 7.5mm                                                                 | 13mm                          | 25mm                           | 35mm                           |
| Angle of View                                     | H: 53.7°<br>V: 39.7°                                                  | H: 30.2°<br>V: 22.6°          | H: 15.5°<br>V: 11.6°           | H: 11.1°<br>V: 8.3°            |
| Effective Distance <sup>①</sup><br>Man(1.8m*0.5m) | D <sup>②</sup> : 221m<br>R <sup>③</sup> : 57m<br>I <sup>④</sup> : 28m | D: 382m<br>R: 98m<br>I: 49m   | D: 735m<br>R: 189m<br>I: 95m   | D: 1030m<br>R: 265m<br>I: 132m |
| Effective Distance<br>Vehicle(4m*1.4m)            | D: 490m<br>R: 126m<br>I: 63m                                          | D: 850m<br>R: 219m<br>I: 109m | D: 1634m<br>R: 420m<br>I: 210m | D: 2288m<br>R: 588m<br>I: 294m |

## Video

|                                      |                                                                                                                          |
|--------------------------------------|--------------------------------------------------------------------------------------------------------------------------|
| Compression                          | H.265 / H.264 / MJPEG                                                                                                    |
| Frame Rate                           | Main Stream:<br>Thermal: 1280x1024 / 720P / 400x300 @25/30fps<br><br>Sub Stream:<br>Thermal: 640x512 / 400x300 @25/30fps |
| Bit Rate Control                     | CBR/VBR                                                                                                                  |
| Bit Rate                             | H.264: 640 ~ 8192Kbps                                                                                                    |
| Motion Detection                     | Off/On (4 zone, Rectangle)                                                                                               |
| Region of Interest                   | Off/On (4 zone)                                                                                                          |
| Electronic Image Stabilization (EIS) | NA                                                                                                                       |
| Digital Zoom                         | 4x(19 levels)                                                                                                            |
| Flip                                 | 180°                                                                                                                     |
| Mirror                               | Off/On                                                                                                                   |
| Privacy Masking                      | Off/On (4 area, Rectangle)                                                                                               |

## Audio

|             |                              |
|-------------|------------------------------|
| Compression | G.711A / G.711Mu / AAC / PCM |
|-------------|------------------------------|

## Intelligence

|                                |                                                                              |
|--------------------------------|------------------------------------------------------------------------------|
| IVS                            | Tripwire, Intrusion                                                          |
| Advanced Intelligent Functions | Fire detection & alarm, Cold/Hot spot trace,<br>Human/Vehicle classification |

## Network

|                     |                                                                                                                                                            |
|---------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Ethernet            | RJ-45                                                                                                                                                      |
| Protocol            | IPv4/IPv6, HTTP, HTTPS, SSL, TCP/IP, UDP, UPnP, ICMP, IGMP, SNMP, RTSP, RTP, SMTP, NTP, DHCP, DNS, PPPOE, DDNS, FTP, IP Filter, QoS, Bonjour, 802.1x       |
| Interoperability    | ONVIF Profile S & G, API                                                                                                                                   |
| Streaming Method    | Unicast/Multicast                                                                                                                                          |
| Max. User Access    | 10 Users/20 Users                                                                                                                                          |
| Edge Storage        | Micro SD (256GB)<br>Memory status display (Normal / Error / Active / Formatting / Lock),<br>NAS (Network Attached Storage), Local PC for instant recording |
| Web Viewer          | >IE8, <Chrome42, <Firefox42                                                                                                                                |
| Management Software | SmartPSS, DSS                                                                                                                                              |
| Smart Phone         | Android, iOS                                                                                                                                               |

## Certifications

|               |                                                 |
|---------------|-------------------------------------------------|
| Certification | CE (EN 60950: 2000) FCC (FCC Part 15 SubpartB ) |
|---------------|-------------------------------------------------|

## Interface

|                 |                   |
|-----------------|-------------------|
| Video Interface | 1 Port (CVBS/BNC) |
| Audio Interface | 1/1 In/Out        |
| RS485           | Support           |
| Alarm           | 2/2 In/Out        |

## Electrical

|                   |                 |
|-------------------|-----------------|
| Power Supply      | DC 12V/PoE/ePoE |
| Power Consumption | Max. 13W        |

## Environmental

|                     |                                                                                                     |
|---------------------|-----------------------------------------------------------------------------------------------------|
| Operating Condition | -40°C ~ +70°C (-40°F ~ +158°F)/Less than 95% RH<br>* Start up should be done at above -40°C (-40°F) |
| Storage Conditions  | -40°C ~ +70°C (-40°F ~ +158°F)/Less than 95% RH                                                     |
| Ingress Protection  | IP67                                                                                                |

## Construction

|              |                                             |
|--------------|---------------------------------------------|
| Casing       | Metal                                       |
| Dimensions   | 291mm× 103mm× 97mm (11.46" x 4.06" x 3.82") |
| Net Weight   | 1.5Kg (3.31 lb)                             |
| Gross Weight | 1.9Kg (4.19 lb)                             |

Note:

① Effective distance values shown are nominal values and should be used as estimates only. Exact value calculations depend on a wide variety of conditions.

② D: Detection Distance

③ R: Recognition Distance

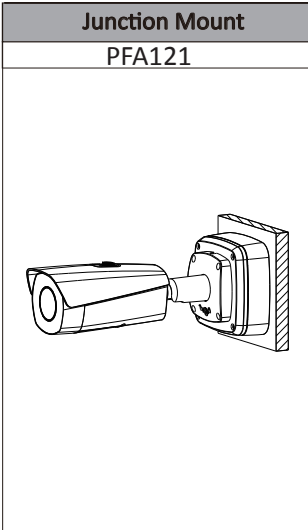
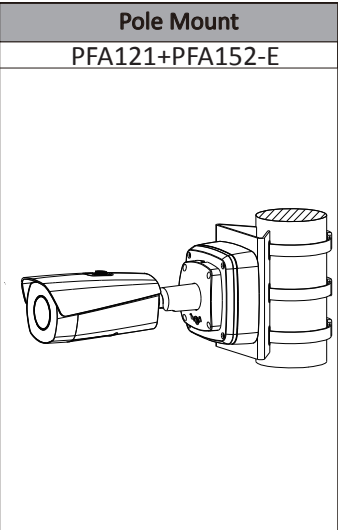
④ I: Identification Distance

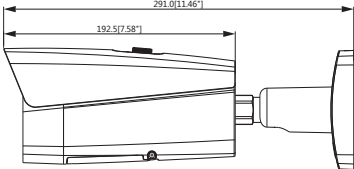
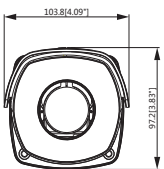
| Ordering Informa? ? |                                          |                            |
|---------------------|------------------------------------------|----------------------------|
| Type                | Part Number                              | Description                |
| DH-TPC-BF5401       | DH-TPC-BF5401P-B7<br>DH-TPC-BF5401N-B7   | Thermal:400x300 7.5mm lens |
|                     | DH-TPC-BF5401P-B13<br>DH-TPC-BF5401N-B13 | Thermal:400x300 13mm lens  |
|                     | DH-TPC-BF5401P-B25<br>DH-TPC-BF5401N-B25 | Thermal:400x300 25mm lens  |
|                     | DH-TPC-BF5401P-B35<br>DH-TPC-BF5401N-B35 | Thermal:400x300 35mm lens  |

Accessories

Optional :



| Moun? ? Epe                                                                        |                                                                                     |
|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| Junction Mount                                                                     | Pole Mount                                                                          |
| PFA121                                                                             | PFA121+PFA152-E                                                                     |
|  |  |

| Dimensions(mm)                                                                      |                                                                                      |
|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
|  |  |