

# DH-TPC-BF2221-HTM

## Thermal Body Temperature Monitoring Camera



- 256 × 192 Vanadium Oxide Uncooled FPA
- Athermalized lens (thermal camera), focus-free
- Smart linkage with strobe light & audio
- Temperature Accuracy  $\pm 0.3^{\circ}\text{C}$  with black body
- Temperature Measurement Range:  $30^{\circ}\text{C}$  to  $45^{\circ}\text{C}$
- IP67; Micro SD storage

### System Overview

Featuring two video channels, it can realize the high accuracy temperature measurement. This series is designed for preliminary body temperature screening.

### Technical Specification

#### Thermal

Effective Pixels	256 × 192
Spectral Range	8 $\mu\text{m}$ –14 $\mu\text{m}$
Thermal Sensitivity (NETD)	$\leq 50\text{mK}@f/1.0$
Focal Length	7.5mm
Field of View	H: 32.4° V: 24.6°
Focus Mode	Athermalized
Aperture	F/1.0
Digital Detail Enhancement (DDE)	Yes
AGC	Auto; Manual
Noise Reduction	2D NR; 3D NR
Image Flip	180°/Mirror
Color Palettes	18 (Whitehot/Blackhot/Ironrow/Icefire/Fusion/Rainbow/Globow/Iconbow1/Iconbow2 .etc)
Temperature Measurement Range	$30^{\circ}\text{C}$ to $45^{\circ}\text{C}$ ( $86^{\circ}\text{F}$ to $113^{\circ}\text{F}$ )
Temperature Accuracy	$\pm 0.3^{\circ}\text{C}$ (with black body) when the environment temperature is $10^{\circ}\text{C}$ to $30^{\circ}\text{C}$ ( $50^{\circ}\text{F}$ to $86^{\circ}\text{F}$ )

#### Visible

Image Sensor	1/2.8 inch CMOS
Effective Pixels	1920 × 1080
Max. Resolution	2MP
Electronic Shutter Speed	1/30000s–1s
Min. Illumination	Color: 0.01 Lux Black & white: 0.001 Lux 0 Lux (IR on)
IR Illumination Distance	50 m (164 ft)
IR Illuminator On/Off Control	Auto; Manual
Focal Length	6 mm
Aperture	F/2.0
Field of View	H: 52.8° V: 30.3°
Focus Mode	Fixed
Close Focus Distance	1.6 m (5.2 ft)
BLC	Yes
WDR	Yes
HLC	Yes
White Balance	Auto/Manual/Indoor/Outdoor/Tracking/Sodium lamp/Street lamp/Natural
AGC	Auto; Manual
Noise Reduction	2D NR; 3D NR
S/N Ratio	$\geq 55$ dB

Region of Interest (RoI)	Yes
Image Flip	180°/Mirror
Exposure Compensation	Yes

## Video and Audio

Video Compression	H.265/H.264M/H.264H/H.264B
Resolution	Thermal Main stream: 1280 × 1024, 1280 × 960, 1280 × 720, 400 × 300. 1280 × 960 by default Sub stream: 640 × 512, 640 × 480, 400 × 300. 400×300 by default Visible Main stream: 1080P (1920 × 1080), 720P (1280 × 720), D1 (704 × 576). 1080P by default Sub stream: D1 (704 × 576), CIF (352 × 288). CIF by default
Frame Rate	Thermal (50Hz): Main stream: 1fps–25fps adjustable. 25fps by default; sub stream: 1fps–25fps adjustable. 15fps by default. Visible (50Hz): Main stream: 1fps–25fps adjustable. 25fps by default; sub stream: 1fps–25fps adjustable. 15fps by default.
Audio Compression	G.711a; G.711mu; AAC; PCM

## Network

Protocol	HTTP; HTTPS; TCP; ARP; RTSP; RTP; UDP; RTCP; SMTP; FTP; DHCP; DNS; DDNS; PPPOE; IPv4/v6; SNMP; QoS; UPnP; NTP; Multicast; SFTP; 802.1x;
Edge Storage	Micro SD card (256G)
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
User/Host	20 users at most (total bandwidth 64Mbps)
Security	Authorized username and password; attached MAC address; encrypted HTTPS; IEEE 802.1x; controlled network access

## Certification

Certifications	CE: EN55032:2015; EN61000-3-2:2014 FCC:CFR 47 FCC Part15 subpart B; ANSI C63.4-2014
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## Port

Ethernet	1 10M/100M Ethernet port (RJ-45)
Audio Input	1
Audio Output	1
Alarm Input	2
Alarm Output	1
RS-485	1

## Power

Power Supply	12V±20% DC; POE (802.3af); ePOE
Power Consumption	Basic consumption: <8W (12V DC) Max consumption: <18W (12V DC, without power adapter)

## Environmet

Operating Temperature	10°C to +30°C (50°F to 86°F)
Operating Humidity	≤93%@40°C (104°F)
Ingress Protection	IP67

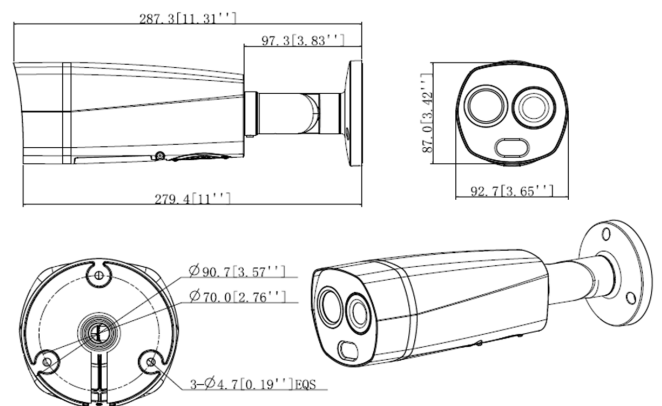
## Structure

Dimensions	365mm×175mm×176mm (With bracket)
Net Weight	≤1.4 kg (3.09 lb)
Gross Weight	≤1.9 Kg (4.19 lb)

## Ordering Information

Type	Model	Description
DH-TPC-BF2221-HTM	DH-TPC-BF2221-HTM	Thermal: 256x192 7.5mm lens Visible: 2MP 6mm lens

## Dimensions (mm[inch])



Videcom Security Ltd  
Fordoun House  
Rue De St Lawrence  
Waltham Abbey  
Essex  
EN9 1PF

sales@vpuk.com

<https://videcomsecurity.co.uk>