

ATK-COV19-5000

Thermal Body Temperature Camera



- 400 × 300 vanadium Oxide uncooled focal plane detector
- Athermalized lens (thermal camera), focus-free
- Smart linkage with strobe light & audio
- Temperature accuracy ± 0.3 °C with black body
- Temperature measurement range: 30°C to 45°C
- IP67; ePOE; 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	400 × 300	
Pixel Pitch	17 μ m	
Spectral Range	8 μ m–14 μ m	
Thermal Sensitivity (NETD)	≤ 40 mK@f/1.0	
Focal Length	10 mm	3 mm
Field of View	Horizontal: 36.2°, Vertical: 27.5°;	Horizontal: 30°, Vertical: 22.6°;
Focus Mode	Athermalized	
Aperture	F/1.0	
Digital Detail Enhancement (DDE)	Yes	
AGC	Auto; Manual	
Noise Reduction	2D NR; 3D NR	
Image Flip	180°	
Color Palettes	18 (Whitehot/Blackhot/Ironrow/Icefire/Fusion/Rainbow/Globow/Iconbow1/Iconbow2 .etc)	
Temperature Measurement Range	30°C to 45°C (86°F to 113°F)	
Temperature Accuracy	± 0.3 °C (with black body) when the environment temperature is 10°C to 30°C (50°F to 86°F)	

Visible

Image Sensor	1/2.8 inch CMOS
Effective Pixels	1920 × 1080
Max. Resolution	2MP

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Electronic Shutter Speed	1/30000s–1s	
Min. Illumination	Color: 0.01 Lux@F1.6 Black & white: 0.001 Lux@F1.6 0 Lux (IR on)	
IR Illumination Distance	≥50 m (164 ft)	
IR Illuminator On/Off Control	Auto; Manual	
Focal Length	6 mm	8 mm
Aperture	F/2.0	F/2.0
Field of View	Horizontal: 52.8°, Vertical: 30.3°,	Horizontal: 40°, Vertical: 22°,
Focus Mode	Fixed	
Close Focus Distance	0.7 m (2.3 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	≥ 55 dB	
Region of Interest (RoI)	Yes	
Image Flip	180°	
Exposure Compensation	Yes	

Video and Audio

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

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Video and Audio

Frame Rate	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 64M)
Security	Authorized username and password; attached MAC address; encrypted HTTPS; IEEE 802.1x; controlled network access

Certifications

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 pair

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)

Environment

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

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Structure

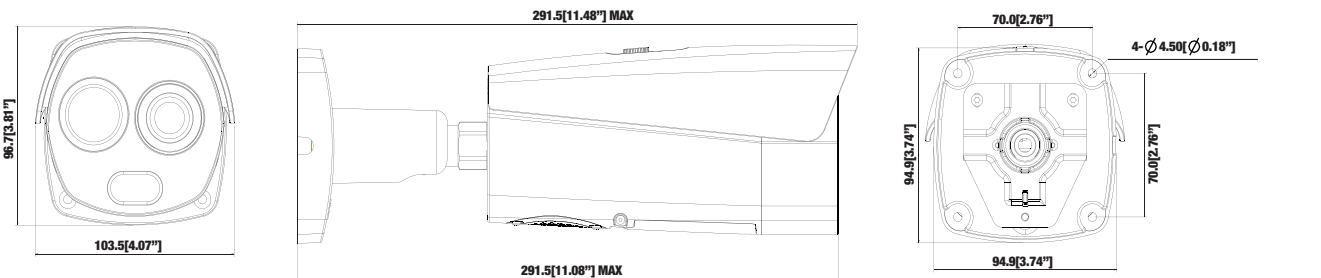
Dimensions	291.6 mm × 103.8 mm × 96.7 mm (11.48" × 4.09" × 3.81")
Packaging Dimensions	365 mm × 175 mm × 176 mm (14.37" × 6.89" × 6.93")
Net Weight	≤1.8 kg (3.97 lb)
Gross Weight	≤2.3 Kg (5.07 lb)

Ordering Information

Type	Model	Description
Camera	DH-TPC-BF5421P-TB13F8	Thermal: 13 mm Visible: 8 mm
	DH-TPC-BF5421N-TB13F8	Thermal: 13 mm Visible: 8 mm
	DH-TPC-BF5421P-TD13F8	Thermal: 13 mm Visible: 8 mm
	DH-TPC-BF5421N-TD13F8	Thermal: 13 mm Visible: 8 mm
	DH-TPC-BF5421P-TD10F6	Thermal: 10 mm Visible: 6 mm
	DH-TPC-BF5421N-TD10F6	Thermal: 10 mm Visible: 6 mm

Dimensions (mm / inch)

BF5421-TB



BF5421-TD

