

DH-TPC-BF5421-T

Thermal Network Bullet Camera



- \cdot 400 \times 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



Thermal Ther	Technical Specification			Thermal
Sector S	Detector Type	detector	Resolution	(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;
Thermal Send Mark	Pixel Pitch	17 μm		
Second Frength Same Second Function Two-way Talk Yes	Spectral Range	8 μm-14 μm	Audio Compression	G.711a; G.711mu; AAC; PCM
Field of View 13 mm horizontals 30', verticals 22.0' Field of View 13 mm horizontals 30', verticals 22.0' Focus Mode Fixed-focal Network Protocol SMTP, FTP, Dots, Dots, PMOS, DNS, PMOS, IPMOS, IPM	Thermal Sensitivity (NETD)	≤40 mK	Image Encoding Format	JPEG
Field of View 13 mm. horozontal. 307, vertical. 22.6* Network Protocol Metwork Metwork Protocol Metwork Protocol Metwork Protocol Metwork Met	Focal Length	13 mm	General Function	
Fined foral Aperture File Of Control Mode Aperture File Of Control Mode File Of Con	Field of View	13 mm: horizontal: 30°, vertical: 22.6°	Two-way Talk	
Storage Storage FTP	Focus Mode	Fixed-focal	Network Protocol	SMTP; FTP; DHCP; DNS; DDNS; PPPOE; IPv4/
Thermal Image Stabilization ACC Auto, manual ACC Auto, manual Dense Reduction 2D NR; 3D NR Browser Brow	Aperture	F1.0	Region of Interest (ROI)	Yes
ACC Auto, manual Noise Reduction 2D NR; 3D NR Browser Fromesture Measurement Range 30°C ~ 445°C Max + 03°C without blackbody Max + 10°C without blackbody Visible Fetfolia Polyting 122 Are: 12 A	Digital Detail Enhancement (DDE)	Yes	Storage	FTP
Noise Reduction 20 NR; 30 NR Browser EIEB and the later, and explorer with E con Googlet 24 and the earlier Firefroit 42 and the earlier Firefroit 42 and the earlier Safart 12 and the safat 12 and the	Thermal Image Stabilization	Electronic Image Stabilization	Interoperability	ONVIF; CGI; Dahua SDK
Noise Reduction 20 NR; 3D NR Spowser S	AGC	Auto; manual		15, 150 and the later and application with 15 and
Color Palettes 18 of North Minister Programmer Roman Selectable such as Whitehort/ Blackhot/Ironrow/Leffre. 18 of North Measurement Range 20°C ~45°C 20 channels at most (the total bandwidth effekt) 19 of North Measurement Range 20°C ~45°C 20 channels at most (the total bandwidth effekt) 20°C ~45°C 20 channels at most (the total bandwidth effekt) 20°C ~45°C 20 channels at most (the total bandwidth effekt) 20°C ~45°C 20 channels at most (the total bandwidth effekt) 20°C ~45°C 20 channels at most (the total bandwidth effekt) 20°C ~45°C 20°C 20°C 20°C 20°C 20°C 20°C 20°C 20	Noise Reduction	2D NR; 3D NR	Browser	Google: 42 and the earlier Firefox: 42 and the earlier
Coor Patertes Blackhot/Ironrow/icefre. Temperature Measurement Range 30°C ~45°C Security Max ±0.3°C with blackbody Max ±1°C without blackbody Max ±1°C without blackbody Spot: ±2 Area: ±2 Support ±2 rules simultaneously Visible Image Sensor 1/2.8° 2M CMOS Port Effective Pixels 1920(H)x1080(V) Analog Video Output 1 channel of CVBs output with BNC port Electronic Shutter Speed 1/1 ~1/30,000s Min. Illumination 1/2.8° 2M CMOS Port Electronic Shutter Speed 1/1 ~1/30,000s Network Alarm Input Alarm Output 2 channels R On/off Control Auto/Manuel R CO/off Control Auto/Manuel R LEDS 1 Auto/Manuel Alarm Linkage Output/siren and light/email/PTZ/ snapshot Output/siren and light/email/PTZ/ snapshot Angle of View Audio and Video Video Compression Never	Image Flip	90°/180°/mirror		Safari: 10 and the earlier
Measurement Range 30°C *43°C Security attached Max 6 30°C *43°C ************************************	Color Palettes	·	User/Host	
Temperature Accuracy Max #10.7 with blackbody Spot: 12 Line: 12 Arac: 12 Support 12 rules simultaneously Visible Image Sensor 1/2.8" 2M CMOS 1920(H)x1080(V) Malfunction Detection Port Effective Pixels 1920(H)x1080(V) Analog Video Output 1 channel of CVBS output with BNC port Electronic Shutter Speed 1/1~ 1/30,000s Metwork Min. Illiumination Color: 0.002Lux; B/W: 0.0002Lux; OLux (IR on) R Distance 35m Alarm Input 2 channels Audio Input 1 channel Audio Output 1 channel Autor Output/siren and light/email/PTZ/ snapshot Analog of View H: 40° V: 22* Audio and Video Video Compression H: 265; H: 264; H: 264H; H: 264B; MJPEG Power	•		Security	attached MAC address; encrypted HTTPS;
Temperature Mode Line: 12 Area: 12 Are	Temperature Accuracy			Support 20 users at most and users are
Visible Image Sensor 1/2.8° 2M CMOS Port Effective Pixels 1920(H)x1080(V) Analog Video Output Analog Video Output 1 channel of CVBS output with BNC port 1/1 ~ 1/30,000s Network 1 10M/100M Ethernet port (RJ-45) Alarm Input 2 channels Alarm Output 2 channels Alarm Output 2 channels Alarm Output 1 channel Aunole Output 1 channel Aunole Output 1 channel Aunole Output 1 channel Alarm Linkage Alarm Linkage Alarm Event Aution Auton detection/privacy mask/audio detection/network abnormality/anti-burn warning Audio and Video Video Compression 1 Al265; H,264; H,264H; H,264B; MJPEG Port Port Analog Video Output Analog Video Output Alarm Linkage Alarm Event Alarm Event Alarm Event Alarm Event Aunole of View Power	Temperature Mode	Line: 12 Area: 12	User Management	and user group.
Effective Pixels 1920(H)x1080(V) Analog Video Output 1channel of CVBS output with BNC port Electronic Shutter Speed 1/1 ~ 1/30,000s Network 110M/100M Ethernet port (RJ-45) Min. Illumination Color: 0.002Lux; B/W: 0.0002Lux; OLux (IR on) IR Distance 35m IR On/Off Control Auto/Manual Auto/Manual Audio Input 1channel IR LEDS 1 Focal Length 8mm Max Aperture F1.9 Alarm Linkage Output/siren and light/email/PTZ/snapshot Alarm Event detection/privacy mask/audio detection/privacy mask/audio detection/network abnormality/anti-burn warning RS-485 1channel POWER	Visible		Malfunction Detection	
Electronic Shutter Speed 1/1 ~ 1/30,000s Network 1 10M/100M Ethernet port (RJ-45) Min. Illumination Color: 0.002Lux; B/W: 0.0002Lux; OLux (IR on) IR Distance 35m IR On/Off Control Auto/Manual Audio Input 1 channel IR LEDs 1 Alarm Linkage Output/Siren and light/email/PTZ/ snapshot Max Aperture F1.9 Alarm Event	Image Sensor	1/2.8" 2M CMOS	Port	
Min. Illumination Color: 0.002Lux; B/W: 0.0002Lux; OLux (IR on) Alarm Input 2 channels Alarm Output 2 channels Alarm Output 1 channel Audio Input 1 channel Audio Output 1 channel Alarm Linkage Output/siren and light/email/PTZ/ snapshot Angle of View Angle of View H: 40° V: 22° Audio and Video Video Compression H. 265; H. 264; H. 264H; H. 264B; MJPEG Alarm Event Alarm Event Flow Fower	Effective Pixels	1920(H)x1080(V)	Analog Video Output	1 channel of CVBS output with BNC port
Min. Illumination on) Alarm Output 2 channels Audio Input 1 channel Audio Output 1 channel Audio Output 1 channel Audio Output 2 channels Audio Output 1 channel Audio Output 3 channel Alarm Linkage Output/siren and light/email/PTZ/snapshot Alarm Linkage Alarm Event detection/privacy mask/audio detection/network abnormality/anti-burn warning Audio and Video Video Compression H.265; H.264; H.264H; H.264B; MJPEG Alarm Event Power Audio Alarm Event Power	Electronic Shutter Speed	1/1 ~ 1/30,000s	Network	1 10M/100M Ethernet port (RJ-45)
IR Distance 35m Audio Input 1 channel IR On/Off Control Auto/Manual IR LEDs 1 Focal Length 8mm Max Aperture F1.9 Audio and Video Video Compression H.265; H.264; H.264B; MJPEG Audio Input 1 channel Audio Output 1 channel Audio Output 3 channel Output/siren and light/email/PTZ/ snapshot Alarm Linkage Alarm Event Alarm Event Alarm Event Alarm Event Alarm Event Power RS-485 Power	Min. Illumination		Alarm Input	2 channels
IR On/Off Control Auto/Manual Audio Output 1 channel 1 channel	IP Dictance	25m	Alarm Output	2 channels
IR LEDs 1 Focal Length 8mm Max Aperture F1.9 Audio Output Angle of View H: 40° V: 22° Audio and Video Video Compression H.265; H.264; H.264H; H.264B; MJPEG Audio Output Angle of View 1 channel Audio Output Angle of View 1 channel Audio Output Alarm Event 1 channel Audio Output/siren and light/email/PTZ/snapshot Output/siren and light/email/PTZ/snapshot Alarm Event Motion detection/privacy mask/audio detection/network abnormality/anti-burn warning RS-485 Power			Audio Input	1 channel
Focal Length 8mm Alarm Linkage Output/siren and light/email/PTZ/snapshot Max Aperture F1.9 Alarm Event Motion detection/privacy mask/audio detection/network abnormality/anti-burn warning Audio and Video Video Compression H.265; H.264; H.264H; H.264B; MJPEG Alarm Event Motion detection/privacy mask/audio detection/network abnormality/anti-burn warning RS-485 1 channel Power			Audio Output	1 channel
Focal Length Max Aperture F1.9 Angle of View Audio and Video Video Compression F1.9 Alarm Event Alarm	IR LEDs	1	Alarm Linkage	
Angle of View H: 40° V: 22° Alarm Event detection/network abnormality/anti-burn warning RS-485 Video Compression H: 265; H: 264; H: 264B; MJPEG Alarm Event detection/network abnormality/anti-burn warning Power	Focal Length	8mm		
Audio and Video Video Compression RS-485 Power 1 channel 1 channel			Alarm Event	detection/network abnormality/anti-
Video Compression H.265; H.264; H.264H; H.264B; MJPEG Power	-		RS-485	1 channel
Video Compression H.265; H.264H; H.264B; MJPEG		U 265, U 264, U 264U, U 264D, MUDEC	Power	
	viueo Compression	п.205; н.264; н.264н; н.264в; МЈРЕС	Power Supply	12V±20% DC, 1.2A, PoE (802.3af), ePoE

Pro Series | DH-TPC-BF5421-T

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	
	IP67 anti-surge 6KV anti-eletrostatic 8KV

Protection Grade	IP67, anti-surge 6KV, anti-elctrostatic 8KV (touched by objects), anti-elctrostatic 15KV (air)
Packaging Dimensions	365 mm \times 175 mm \times 176 mm (14.37" \times 6.89" \times 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- ECC

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

Accessories







DH-PFA121-V2

DH-PFA151

DH-PFA152-E

Dimensions (mm [inch])









