

TI-Rex 800

Thermal Body Temperature Monitoring Camera



- 256 x 192 VOx uncooled thermal sensor technology
- Athermalized Lens (thermal camera), Focus-free
- Smart linkage with strobe light & audio
- Measurement Accuracy: $\pm 0.3^{\circ}\text{C}$, with black body
- Temperature Measurement Range: 30°C to 45°C
- Micro SD memory, IP67, ePoE, PoE

System Overview

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

Technical Specification

Thermal Camera	
Effective Pixels	256(H)x192(V)
Pixel Size	12 μm
Thermal Sensitivity (NETD)	<50mK@f/1.1
Spectral Range	8 μm –14 μm
Image Setting	Brightness/Sharpness/ROI/AGC/FFC/3D DNR
Color Palettes	18(Whitehot/Blackhot/Ironrow/Icefire/Fusion/Rainbow/Globow/Iconbow1/Iconbow2 .etc)
Lens Type	Fixed
Focus Control	Athermalized, Focus-free
Focal Length	7.1mm
Angle of View	H: 24° V: 18°
Visible Camera	
Image Sensor	1/2.8" 2M CMOS
Effective Pixels	1920(H)x1080(V)
Electronic Shutter Speed	1/1 ~ 1/30,000s
Min. Illumination	Color: 0.005Lux; B/W: 0.0005Lux; 0Lux (IR on)
IR Distance	35m

IR On/Off Control	Auto/Manual
IR LEDs	1
Focal Length	8mm
Aperture	F1.9
Angle of View	H: 40° V: 22°
BLC	Yes
WDR	Yes
HLC	Yes
White Balance	Auto/Manual/Indoor/Outdoor/Tracking/Sodium lamp/Street lamp/Natural
AGC	Auto; Manual

Temperature Measurement

Measurement Range	30°C ~ $+45^{\circ}\text{C}$
Measurement Accuracy	$\pm 0.3^{\circ}\text{C}$, with black body

Video	
Compression	H.265/H.264/MJPEG
Frame Rate	Thermal Main stream: (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; Sub stream: (704 × 576/352 × 288@), 355 × 288 by default Thermal: 50Hz: Main stream (1fps-25fps),25fps by default; sub stream (1fps-25fps),15fps by default; 60Hz: Main stream (1fps-30fps),30fps by default; sub stream (1fps-30fps),15fps by default; Visual: 50Hz: Main stream (1fps-25fps),25fps by default; sub stream (1fps-25fps),15fps by default; 60Hz: Main stream (1fps-30fps),30fps by default; sub stream (1fps-30fps),15fps by default;
Audio	
Compression	G.711a/G.711Mu/AAC
Network	
Ethernet	RJ-45 (10/100Base-T)
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	Profile S & G, API
Streaming Method	Unicast/Multicast
Max. User Access	10 Users/20 Users

Certifications	
Certification	CE FCC
Interface	
Audio Interface	1/1 In/Out
RS485	Support
Alarm	2/1 In/Out
Electrical	
Power Supply	12V±20% DC, 1.2A, PoE (802.3af), ePoE
Power Consumption	Basic: 5.0W Maximum: 12W (power adapter excluded)
Environmental	
Operating Condition	10°C ~ +30°C
Operating Humidity	≤95%
Ingress Protection	IP67
Construction	
Casing	Metal
Dimensions	279.9mm × 103.8mm × 95.8mm(With bracket)
Weight	< 1.4Kg

Ordering Information		
Type	Part Number	Description
DH-TPC-BF3221-T	DH-TPC-BF3221P-TB7F8 DH-TPC-BF3221N-TB7F8	Thermal: 256x192 7mm lens Visible: 2MP 8mm lens

