

TI160-P4

Infrared Body Surface Temperature Rapid Screening Camera (Thermal Imaging Camera)

TI160-P4 is an online infrared body temperature screener for human body temperature measurement. Part of the outstanding features are accurate temperature measurement, real-time imaging, high-temperature auto tracking, and fast targeting. Products are widely used in airport, dock, station, school, shopping malls and other public places to check human body temperature. TI160-P4 has compact structure, small size, light weight, stable performance, high sensitivity, clear image, etc. It can be combined with a dedicated infrared lens, controllable heavy-duty heads, shields and other equipment to integrate a complete infrared online monitoring system.

Features

Stable performance, can be integrated into multiple application environments

Multiple lens options, support autofocus

Auto track high temperature points and display temperature values

Real-time recording of temperature data stream

Temperature data transmission up to 100M bandwidth

Provide professional version analysis software and SDK software package for development

Support ONVIF protocol

Applications

Clinical Diagnosis

Veterinary

Medical Research

Disease field

Public Area



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Technical Specifications

Item	T1160-P4
Detector Data	
Type	Uncooled FPA
IR resolution	384×288
Pixel pitch	17μm
Spectral range	7.5~14μm
NETD/Sensitivity	80mK
Lens Data	
FOV	24°× 18°
Minimum imaging distance	30cm
IFOV	1.13mrad
Focus	Auto/Motor
Lens(optional)	15mm lens
Image Performance	
Image enhancement	IVE image enhancement algorithm
Frequency	25Hz
Digital zoom	2X、 4X
Color palettes	10 options (including iron red, rainbow, black hot and white hot, etc.)
Measurement	
Temperature range	+30℃~+45℃
Measurement accuracy	±0.5℃ or ±0.3℃(with blackbody)
Measurement correction	Auto
Highest temperature tracking	Real time display of high temperature point position and temperature value
Emissivity correction	Adjustable emissivity from 0.01 to 1.0, or correct emissivity through a predefined material emissivity meter
Background temperature correction	Auto (based on the entered background temperature)
Atmospheric transmissivity correction	Auto (based on input reflected ambient temperature, distance, relative humidity, ambient temperature)
Filter or window transmittance	Auto (based on input transmittance)
Function settings	Date / time, temperature unit °C/°F/K, language
Data storage	
Temperature data	PC standard UTD format, analysis with IRX software

Temperature data flow	Device-side standard HXR format, can be played back with IRX software, with time stamp, adjustable playback speed, freezing, looping, and image processing during playback
Image format	Memory storage JPG format(With temperature data), PC side BMP, JPG
Video format	AVI format, H.264 compression
SD card interface	Built-in 32G high-speed TF card
Storage control	Serial port command, level trigger
Report	Word format with content selection guide
Interface	
Network interface	100M / 1000m Ethernet, RJ45 interface, temperature data transmission
Video output	SMA RF interface
Control	RS232, RS485
Alarm I/O	Normally closed, normally open
API	Support SDK (Win & Linux), support ONVIF protocol
Power System	
Working voltage	DC: 12V
Power consumption	<6w
Environment Parameters	
Operating temperature range	-20℃~+50℃ (ambient temperature 10℃-32℃ accurate measurement)
Storage temperature range	-40℃~+70℃
Humidity	≤95%(non-condensing)
Vibration	2G(IEC60068-2-6)
Shock	25G(IEC60068-2-29)
EMC	Consistent with CE/FCC
Physical data	
Size	136mm(L)×65mm(W)×67mm(H)
Weight	≤500g
Mounting	UNC1/4-20 standard tripod interface, M3 thread interface
Packing	
Standard	Thermal imaging camera, integrated cable, warranty card, certificate, case
Quality assurance	
ISO9001	Yes
CE	Yes

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Third-party detection

Type Approval Certificate of Measuring Instruments issued by Zhejiang Quality and
Technical Supervision Bureau