

TI160-P1

Handheld Fever Screening Thermal Camera

TI160-P1 is a special infrared human body temperature screening device. This thermal imaging camera has extraordinary functions such as high accurate temperature measurement, real-time imaging, high-temperature auto tracking, quickly lock the target etc. Currently, it is widely used in railway stations, bus stations, subway stations, airports, hospitals, schools, government buildings, enterprises and institutions, shopping malls, food markets, parks and other public places for investigation of abnormal body temperature. With palm treasure design, compact and lightweight body, visible light function, TI160-P1 can effectively improve the efficiency of detection.

Features

384×288 Uncooled detector

Measurement accuracy $\leq 0.5^{\circ}\text{C}$

Visible and infrared image fusion and overlay

Sound and light alarm, 40 seconds voice recording

Multiple temperature measurement modes: high and low temperature auto tracking, line temperature measurement, isothermal analysis

3.2" Rotatable display for viewing at different angles

Motorized lens, auto focus

Palm design, weighing only 400g

Free professional analysis software

Applications

Clinical Diagnosis

Veterinary

Medical Research

Disease field

Public area



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Technical Specifications

| Item | TI160-P1 |
|---------------------------------------|---|
| Detector Data | |
| Type | Uncooled FPA |
| IR resolution | 384×288 |
| Pixel pitch | 17μm |
| Spectral range | 7.5~14μm |
| NETD/Sensitivity | 50mK |
| Lens Data | |
| FOV | 24°× 18° |
| Minimum imaging distance | 30cm |
| IFOV | 1.2mrad |
| Focus | Motor/Auto |
| Lens(optional) | 45°×34°/15cm, 12°×9°/1m |
| Image Performance | |
| Display | High definition 3.2 "color digital LCD display, rotatable,800×480 |
| Visual camera | 3 megapixel CMOS, auto focus, 1 led fill light |
| Frequency | 50Hz/60Hz |
| Amplification | 1X~8X Continuous zoom |
| Color palettes | 12 options (including iron red, rainbow, black hot and white hot) |
| Contrast/Brightness | Auto/Manual |
| Measurement | |
| Temperature range | +30°C ~+45°C |
| Measurement accuracy | ±0.5°C |
| Measurement mode | Real-time 4 movable points, 3 movable areas (highest temperature, lowest temperature capture, average temperature measurement), movable line temperature measurement, isothermal analysis, temperature difference measurement, temperature alarm (sound, color) |
| Measurement correction | Auto/Manual |
| 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 (according to the entered distance, relative humidity, ambient temperature) |
| Function settings | Date / time, temperature unit °C/°F/K, language |
| Image storage | |
| Built-in memory | Yes, can store> 500 frames |
| Storage media | 8G, can store> 8000 frames |
| Storage method | Auto / manual single frame image |
| Single frame infrared image format | JPEG format with 14-bit measurement data image |
| One frame visible image | JPEG format, or stored with a single frame image (PIP) |

| | |
|-------------------------------|---|
| format | |
| Voice annotation | 40s voice format, stored with image (built-in microphone) |
| Laser indicator | |
| Laser classification | Second level |
| Laser power | 1mW |
| Laser wavelength | 635nm red |
| Interface | |
| Power interface | Yes |
| SD card slot | Yes |
| Video output | CVBS |
| Audio output | Yes |
| USB interface | USB2.0, Image, measurement data, voice transmission to computer |
| Tripod | 1/4" -20 |
| Power System | |
| Battery type | Lithium battery, rechargeable |
| Operating time | 3h continuous working (room temperature) |
| External power | DC: 5V, ±5% |
| Charging system | Smart charger or local charger |
| Power saving | Yes |
| Environment Parameters | |
| Operating temperature range | +16°C ~+32°C |
| Storage temperature range | -40°C ~+70°C |
| Humidity | ≤95%(non-condensing) |
| Shock | 25G(IEC60068-2-29) |
| Vibration | 2G(IEC60068-2-6) |
| Encapsulation | IP54(IEC60529) |
| Physical data | |
| Size | 128mm×62mm×154mm |
| Weight | ≤0.4kg(With battery and standard lens) |
| Packing | |
| Standard | Thermal Imaging Camera(with standard lens), 2 lithium batteries, battery charger, adapter, USB cable, SD card, card reader, software CD, warranty card, certificate, calibration book |
| Optional accessories | Laptop, SLR |
| Quality assurance | |
| ISO9001 | Yes |
| CE | Yes |
| Third-party detection | Type Approval Certificate of Measuring Instruments issued by Zhejiang Quality and Technical Supervision Bureau |

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