



TI332 & TI322

Handheld Thermal Imaging Camera

- + Infrared thermal imaging 320 x 240 resolution(TI332), 220 x 160 resolution(TI322)
- + 3 imaging fusion modes of visible camera and infrared thermal
- + 3 image enhancement modes for different applications
- + Customized high and low temperature limit alarm
- + Computer analysis software meets more professional industry applications
- + Multiple measurement methods, let the temperature hide nowhere
- + 8 color palettes
- + Large internal memory can store up to 20,000 pictures
- + Temperature measurement range -20 °C to 450 °C, temperature measurement accuracy $\pm 2^{\circ}\text{C}$ or $\pm 2\%$
- + Emissivity adjustable (0.01-0.99), default 0.95
- + Simultaneously save 3 pictures for multi-view analysis
- + 3.5-inch TFT LCD



Hot and cold
spot tracing



Quick
temperature
capture



Large capacity
data storage



Wi-Fi data
transmission



Type-C
charging data
transmission



3.5" IPS
full view display



Adjustable
emissivity



3.5-inch Display

3.5-inch IPS color display, nearly 180° field of view

PR Key

Power/Return key, to power on/off and return

Direction Key and Shortcut

Up/Down for imaging mode selection
Left/Right for color palette selection

OM Key

OK/Menu key, to confirm and open menu

Tripod

Can be fixed on a tripod and equipped with a lanyard hole

Infrared thermal optics from the US

320 x 240 resolution to find more details

LED Light

Imported chip, high brightness, low heat, low light decay

Trigger

Photo freezing and save

Battery

Large 5000mAh battery, >4 hours working time



High resolution visible camera

To take high resolution pictures and videos

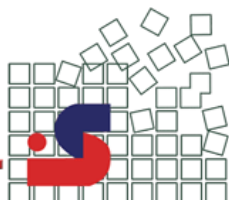
USB interface

USB Type C interface for battery charging and photos copy

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High definition infrared imaging

3.5" IPS full view display



1m person



2m person



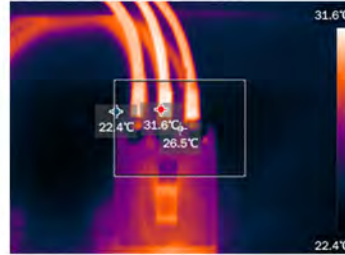
5m person



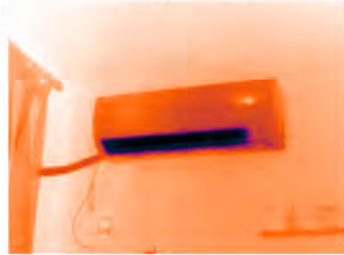
10m person



1.5m 50°C teapot



1.5m distribution box switch



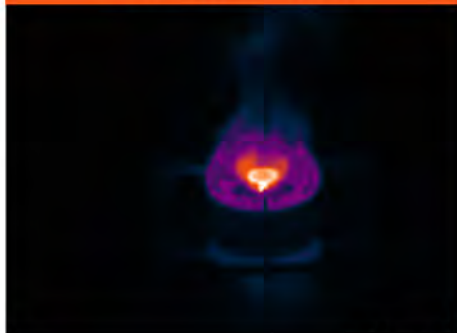
2m air condition



300m building

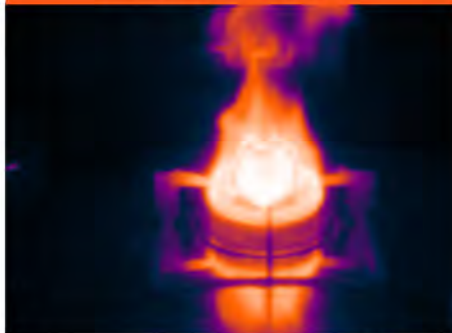
3 Imaging enhancement algorithms

Smooth
enhancement



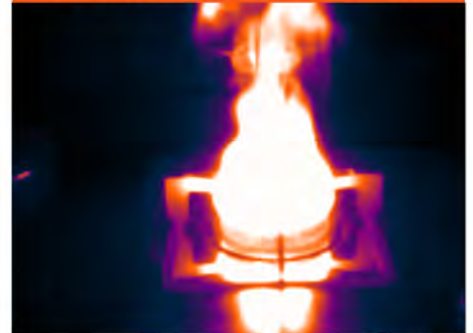
L Flame

Standard
enhancement

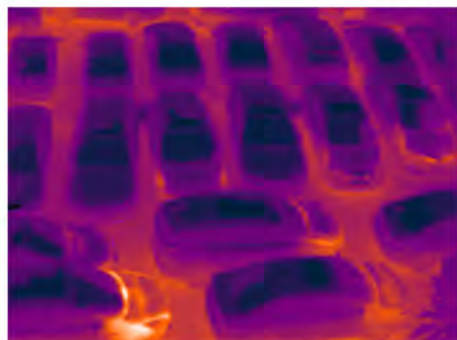


L Flame

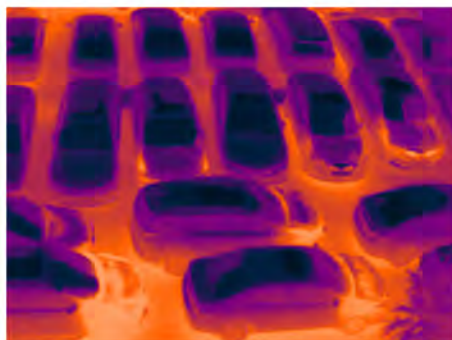
High contrast
texture enhancement



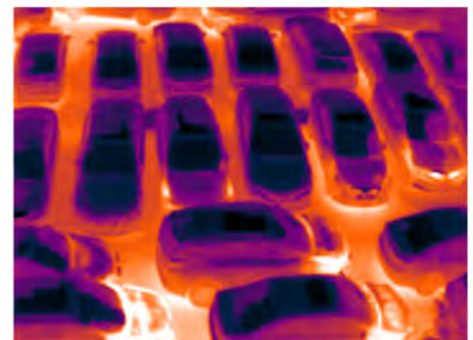
L Flame



L Cars in outdoor



L Cars in outdoor



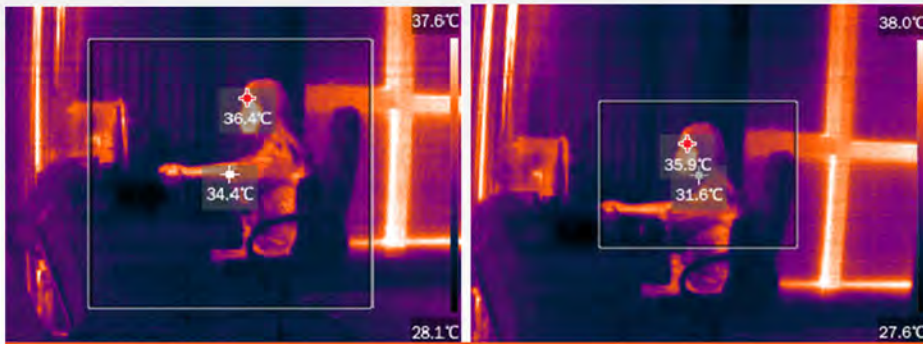
L Cars in outdoor

It is used in the measurement environment with a large gap between high and low temperature in the picture, and has the best effect, such as the temperature measurement of flame, stove etc.

It is used in daily standard testing, when it is not sure whether there is a fault, such as testing air conditioners, electrical equipment.

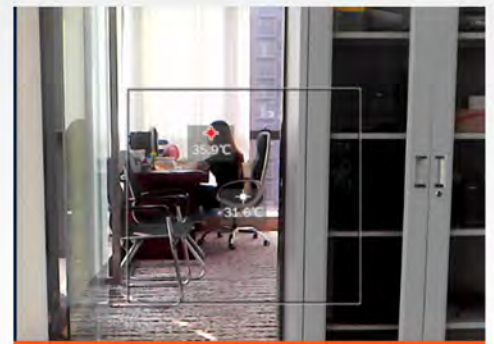
When there is a high temperature fault, it is necessary to strengthen the analysis of the texture of the thermal image, such as: the location of hot water pipes, the leakage of the floor heating, and the motor heating faults.

Temperature measurement methods



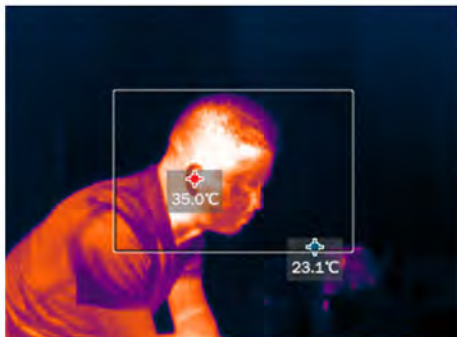
Zone measurement

(Adjustable temperature measurement zone, suitable for measuring equipment at different distances, avoid the interference)



Temperature measurement in visible light mode

Even you do not understand thermal imaging, you can easily find the problem.



Hot and cold spot automatic tracing



Center spot



Temperature measurement in picture-in-picture mode

To search the device by comparing objects

Fusion of visible light and infrared cameras



Outline fusion



Layer Fusion



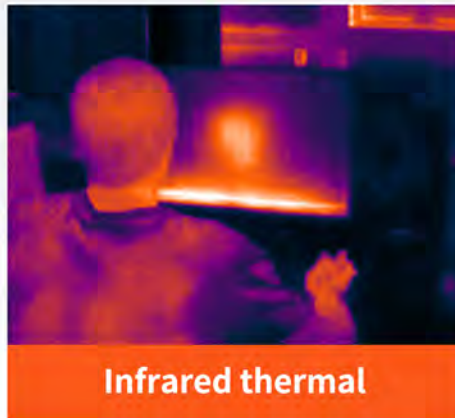
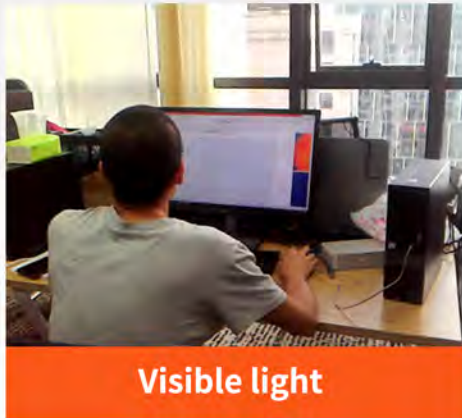
Picture-in-picture fusion

When the thermal imaging cannot identify the details of objects clearly, using outline fusion has a better effect to detect objects.

When in a high temperature difference environment, you can find the high temperature area directly on the visible light screen.

Suitable for quickly switching between visible light and infrared to view details.

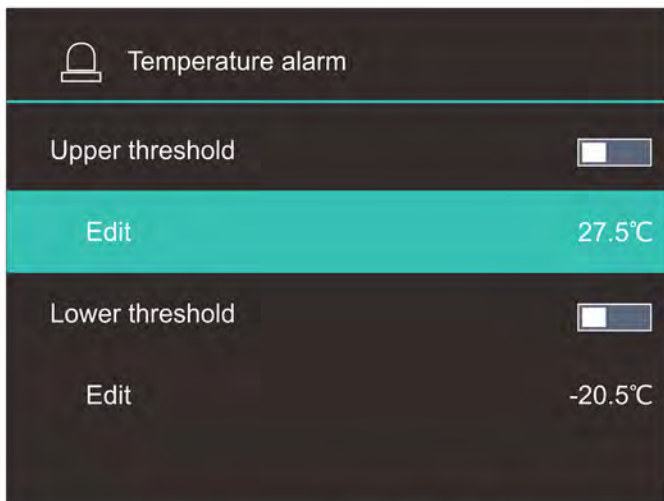
3 pictures saved simultaneously, to restore the situation on site perfectly



How to operate on site, how to restore on TI332

Real-time alarm to operate safely

The high and low temperature thresholds can be set,
and show alarms above or below the threshold.



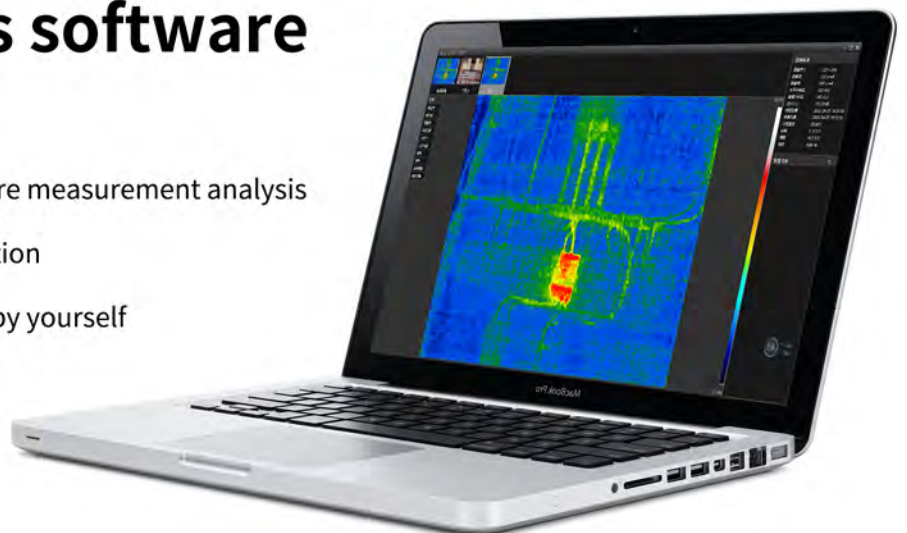
Alarm temperature threshold



Alarm alert

Powerful analysis software

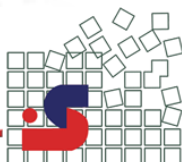
- + Point, line, rectangle, polygon temperature measurement analysis
- + Three pictures on-site restoration display
- + Clear overview of thermal image information
- + Output report can be edited by yourself
- + Output picture content can be modified by yourself
- + Multi-mode image display
- + Can be marked with text



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Type-C USB

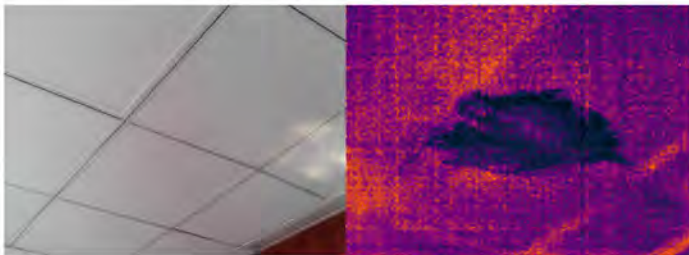
Charging transmission, convenient and fast, support charging with 5V/2A power bank

Large capacity battery

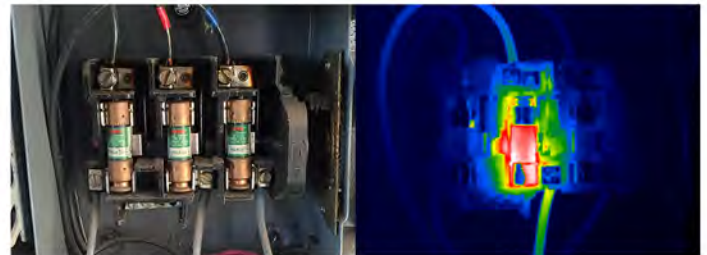
Built-in 5000 mAh lithium battery, more than 4 hours working time



Applications



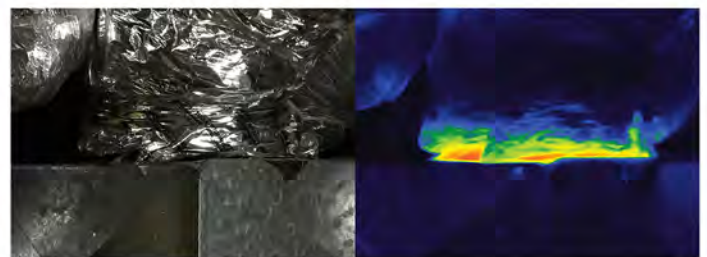
Building staff regularly inspected the ceiling, and found that there was water leakage on the floor. After opening, the water pipe joint on the ceiling had a crack and dripped.



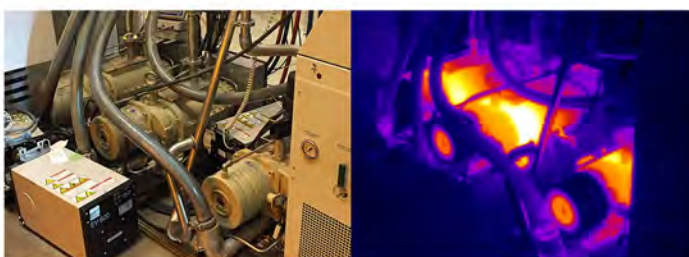
Three circuits are working at the same time, and one fuse is overheated. After inspection, it is found that the left fuse is overloaded seriously.



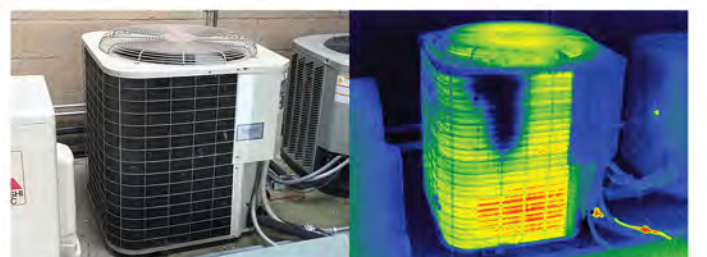
The wiring of the switch connector is loose, causing the temperature of the loose connector to rise.



Insulation material is damaged, a large amount of heat is lost.



The motor has an overload condition, which is a precursor to the accident.



Air conditioner compressor, compressor refrigerant leakage.

Model	TI332	TI322
Resolution	320 × 240	220 × 160
Frequency band	7.8-14um	
Frame rate	9Hz	
Field of view	Horizontal 56°, vertical 42	Horizontal 35°, vertical 26
Lens	4mm	
Color palette	Tyrian, white hot, iron, rainbow, giory, Hottest, coldest	

Temperature measurement

Accuracy	±2 °C or ±2%
Temperature measurement range	-20 °C to +450 °C
Temperature measurement	Tyrian, white hot, blackhot, iron, rainbow, glory, Hottest, coldest

Visible

Resolution	640 × 480
Frame rate	25Hz
LED light	support

Device

Display	3.5-inch IPS full-color display
Image mode	Outline fusion, overlay fusion, picture-in-picture, infrared thermal imaging, visible light
Storage	8G EMMC internal flash memory
Wi-Fi function (optional)	Support 2.4G transmission, used to connect with computer
Communication and charging	USB Type-C
Battery	Built-in 5000mAh Li-ion battery (last about 4 hours after charge fully)
Handheld lanyard	Support
LED light	Support
Waterproof and dustproof	IP54
Operating temperature	-20 °C to +60 °C

Accessories and Packaging

- 1 Thermal Imaging Camera
- 2 Power Adapter
- 3 USB Cable
- 4 Quick Guide
- 5 Carrying Bag



Dimension (W×H×D): 100 x 225 x 85 (mm)

Device Weight: Approx. 500g

Packaging Size (W×H×D): 345 x 200 x 238 (mm)