TI332

Handheld Thermal Imaging Camera

- Infrared thermal imaging 320 x 240 resolution
- 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
- 5 color palettes (Black Hot, White Hot, Rainbow, Iron, Enhanced Iron)
- Large internal memory can store up to 20,000 pictures
- Temperature measurement range -20 °C to 350 °C, temperature measurement accuracy ±2°C or ±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

320 x 240 high resolution

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

High resolution visible camera

To take high resolution pictures and videos

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

USB interface

USB Type C interface for battery
charging and photos copy

High definition infrared imaging

3.5″ IPS full view display

320 x 240 ultra-high resolution, easily distinguish outline information

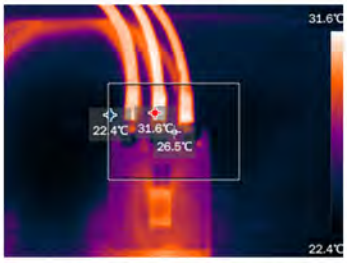
1m person

2m person

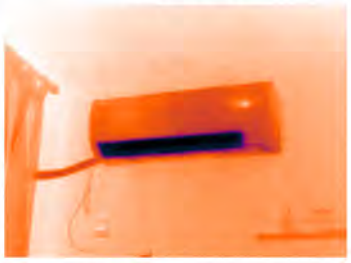
5m person

10m person

1.5m 50°C teapot



1.5m distribution box switch

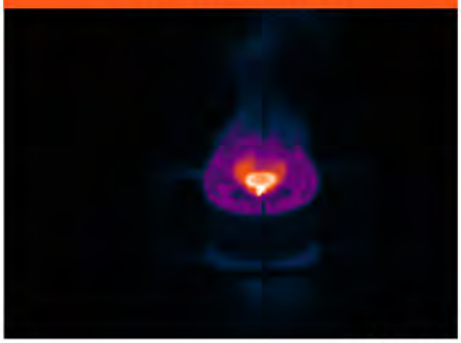


2m air condition

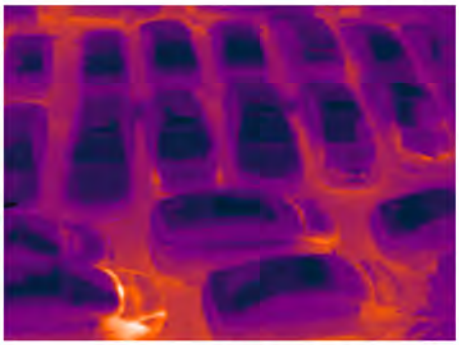
300m building

3 Imaging enhancement algorithms

Smooth enhancement



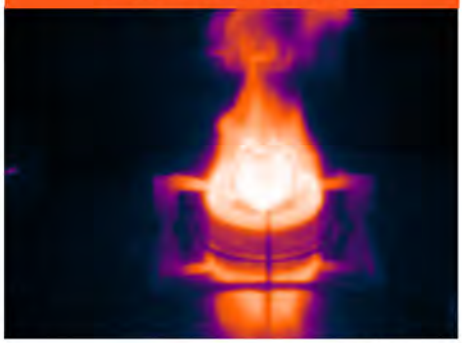
Flame



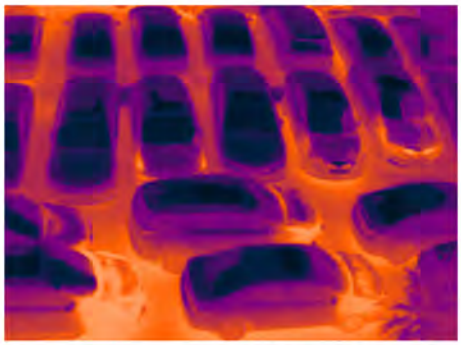
Cars in outdoor

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.

Standard enhancement



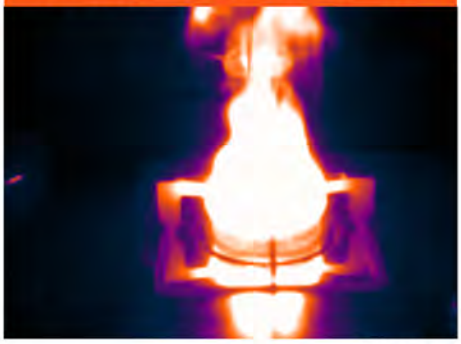
Flame



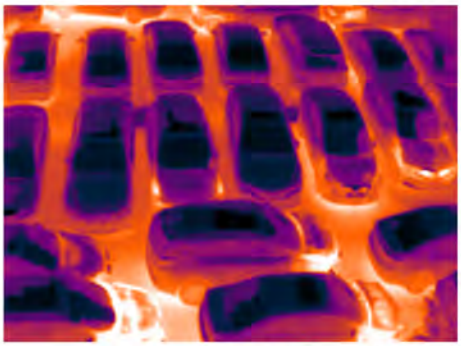
Cars in outdoor

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

High contrast texture enhancement



Flame



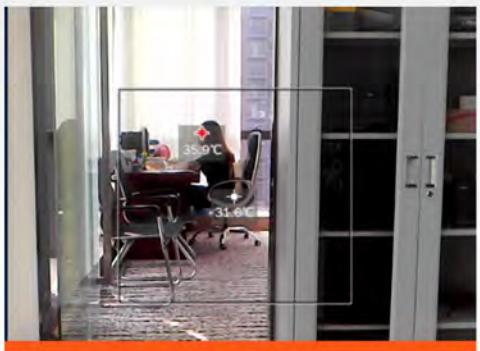
Cars in outdoor

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

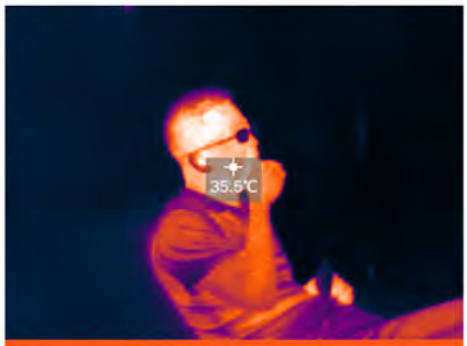
(Adjustable temperature measurement zone, suitable for measuring equipment at different distances, avoid the interference)



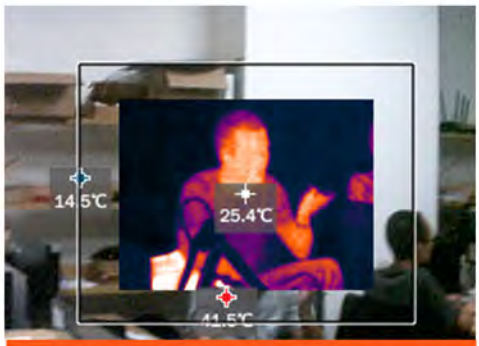
Temperature measurement in visible light mode

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

L Outline fusion

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

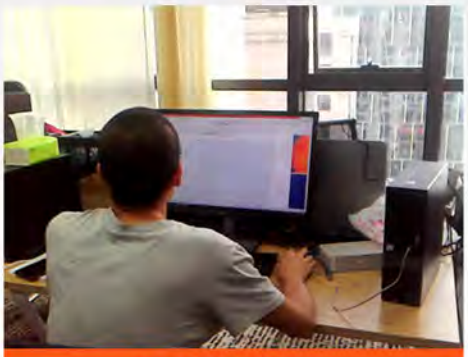
L Layer Fusion

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

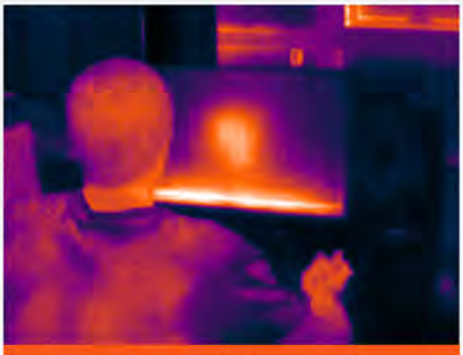
L Picture-in-picture fusion

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

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



Visible light



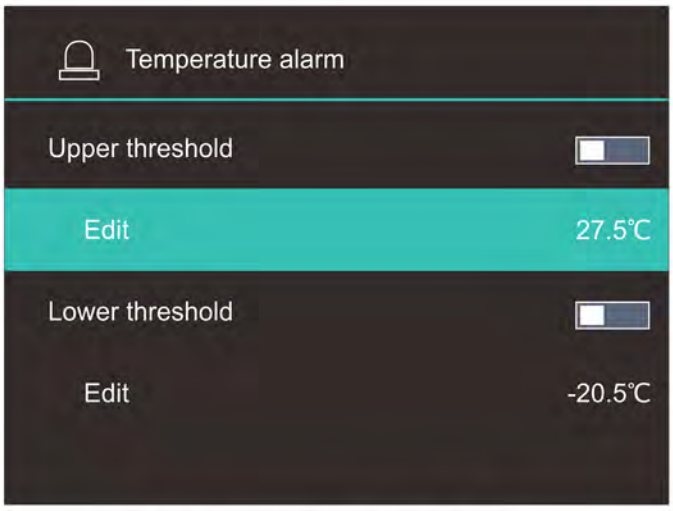
Infrared thermal

Actual pictures in the field

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.

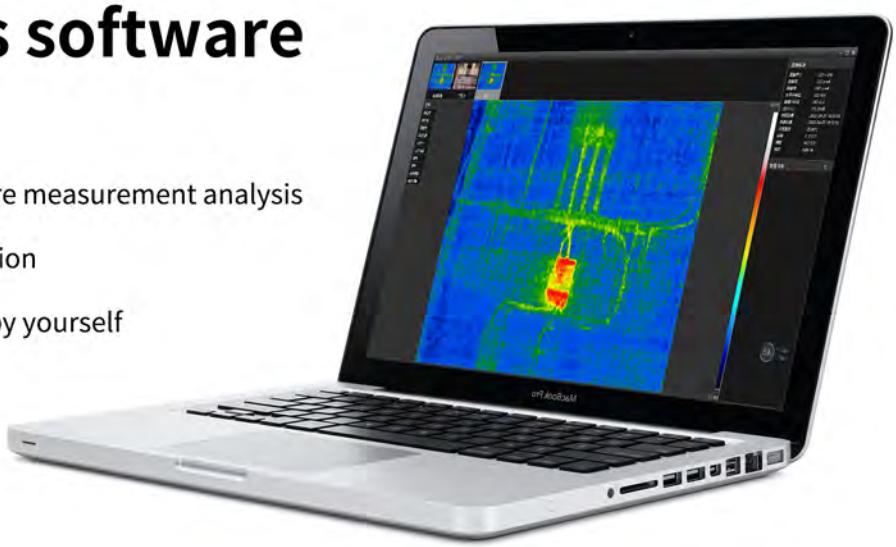


Alarm temperature threshold

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



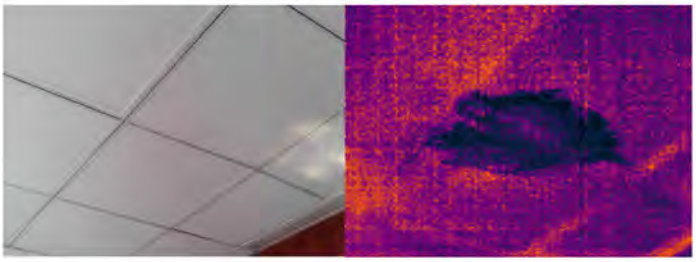
Type-C USB

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

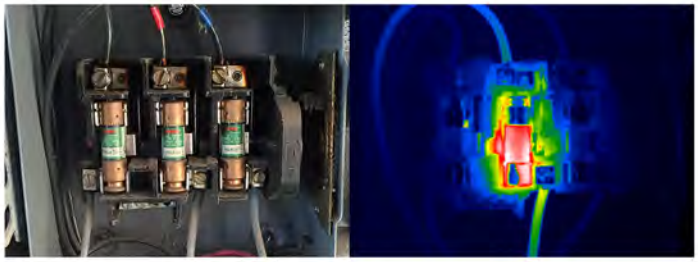
Large capacity battery

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

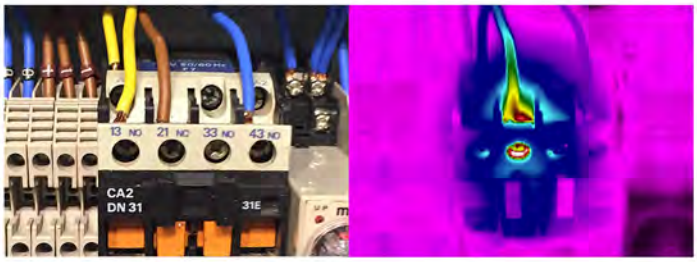
Applications



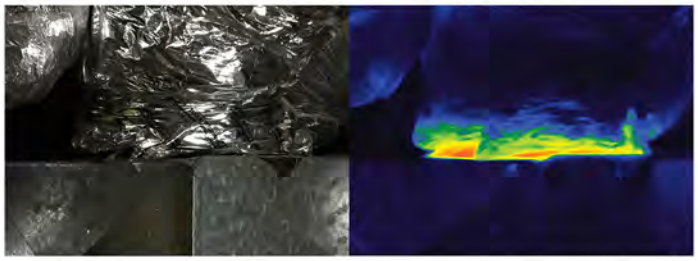
Building staff regularly inspected the ceiling, and found that there was water leakage on the floor. After opening, the water pipe joint on the ceiling had a crack and dripped.



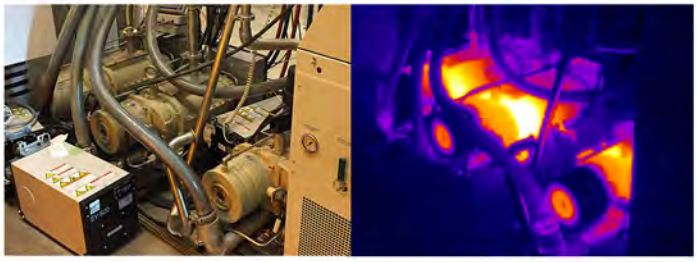
Three circuits are working at the same time, and one fuse is overheated. After inspection, it is found that the left fuse is overloaded seriously.



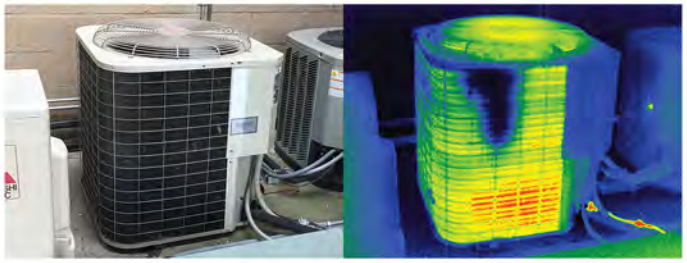
The wiring of the switch connector is loose, causing the temperature of the loose connector to rise.



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.

Performance Specifications

Model	TI332
Resolution	320 × 240 pixels
Frame rate	9Hz
Lens	6.5mm prime lens
Field of view	H:32 V:20
Lens	Horizontal field of view 66°
Light	LED light (torch)
Temperature measurement	
Accuracy	±2 °C (for ambient temperature -10°C to +330°C)
Temperature measurement range	-20 °C to +350 °C
Device	
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
Display	3.5-inch IPS full-color display
Weight	Approx. 500g

Accessories and Packaging

1. TI332
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)