

## TC256 Thermal Camera



- High-sensitivity infrared detector
- 256x192 resolution
- 2.4" LCD colour screen
- -20°C~550°C temperature measurement
- Photo and video recording
- Share files via mobile app
- Real-time video streaming and video storage in IRGD format, with ThermoLink PC application and Thermography mobile APP
- Rechargeable battery

### DESCRIPTION

The TC256 thermal camera provides a 256x192 resolution using the latest technology to enhance the details and reduce noise of the image, presenting a clear image in real time.

Equipped with a series of professional functions such as 2MP visible light camera, video streaming and recording, Wifi, and OTA upgrade, the TC256 is a powerful and easy to use thermal camera.

### FEATURES

- High-sensitivity infrared detector, resolution 256x192
- Real-time IR-Perfclear technology, 4 times better image quality
- -20°C~550°C wide temperature measurement range, automatic switch
- Photo and video recording, convenient sharing via mobile app
- Video streaming, real-time data transmission with PC analysis software
- OTA firmware upgradeable to keep the device up-to-date

### APPLICATIONS

- Domestic electrical circuits
- Electrical distribution boards and cabling
- Commercial or industrial circuits
- Industrial distribution boards
- Motor, generator and rotating machine maintenance
- Air conditioning maintenance
- Heating systems (central heating, underfloor, heat pumps etc)
- Domestic, commercial and industrial solar PV systems
- Heat loss surveys and building insulation
- IT systems
- Air leaks and moisture issues

# TC256

## Thermal Camera

### SPECIFICATIONS

#### Imaging and optics

|                             |                                                              |
|-----------------------------|--------------------------------------------------------------|
| <b>Detector type</b>        | VOx, 7.5 – 14 µm                                             |
| <b>Infrared resolution</b>  | 256 × 192@12 µm                                              |
| <b>Super resolution</b>     | Support real-time super-resolution reconstruction to 512×384 |
| <b>NETD</b>                 | 45 mK                                                        |
| <b>Frame rate</b>           | 25 Hz/9 Hz                                                   |
| <b>Focal length</b>         | 7 mm                                                         |
| <b>Field of view</b>        | 25 ° × 19 °                                                  |
| <b>IFOV</b>                 | 1.71 mrad                                                    |
| <b>Min. object distance</b> | 0.1 m                                                        |
| <b>D:S</b>                  | 585:1                                                        |
| <b>Focusing mode</b>        | Automatic                                                    |

#### Measurement and analysis

|                             |                                                                    |
|-----------------------------|--------------------------------------------------------------------|
| <b>Measurement range</b>    | Support auto-switching: -20°C to 150°C, 0°C to 550°C               |
| <b>Measurement accuracy</b> | ±2°C or ±2%, whichever is greater                                  |
| <b>Analyzed target</b>      | Center spot; Three Fixed Areas: Small, Medium, Large (Alternative) |
| <b>Alarm</b>                | Full screen temperature threshold alarm (image and flash)          |
| <b>Parameter settings</b>   | Emissivity, reflected temperature, target distance                 |

#### Image display

|                         |                                                                    |
|-------------------------|--------------------------------------------------------------------|
| <b>Screen size</b>      | 2.4" LCD                                                           |
| <b>Image mode</b>       | InfraRed, Visible Light, Multi-Image Fusion and Picture-in-Picture |
| <b>Color palettes</b>   | 6: Iron Red, White Hot, Arctic, Rainbow 2, Hot Iron, Rainbow 1     |
| <b>Image adjustment</b> | Level span mode: Automatic, Semi-automatic, Manual                 |
| <b>Digital camera</b>   | 2 MP                                                               |

#### Functions

|                           |                  |
|---------------------------|------------------|
| <b>Laser</b>              | Laser indication |
| <b>Recording function</b> | Photo and video  |

#### Storage and transmission

|                        |                                                                                   |
|------------------------|-----------------------------------------------------------------------------------|
| <b>Storage media</b>   | 16 GB internal storage                                                            |
| <b>Image file type</b> | JPG with temp info                                                                |
| <b>Video file type</b> | Supports real-time video streaming, video storage format in irgd (with temp info) |

|                           |                                                                                            |
|---------------------------|--------------------------------------------------------------------------------------------|
| <b>External interface</b> | TYPE-C, UNC ¼"-20 (tripod mounting)                                                        |
| <b>Wifi</b>               | Yes, it can be connected to the mobile terminal for image and real-time video transmission |
| <b>Power system</b>       |                                                                                            |
| <b>Battery type</b>       | Rechargeable lithium-ion battery, non-removable                                            |
| <b>Operating time</b>     | 11 hours                                                                                   |
| <b>Charging mode</b>      | TYPE-C charging; PC/portable charger; Capable of charging while using                      |
| <b>Charging time</b>      | 90% of full charge in 2.5 hours                                                            |

#### Environmental parameters

|                            |                                                                                                                                |
|----------------------------|--------------------------------------------------------------------------------------------------------------------------------|
| <b>Working temperature</b> | -15°C to 50°C                                                                                                                  |
| <b>IP rating</b>           | IP54                                                                                                                           |
| <b>Drop</b>                | 2m drop test                                                                                                                   |
| <b>Certification</b>       | CE, FCC, RoHS, KC, EAC, FDA, Anatel, IP54, 2m drop test, Damp heat test, Vibration test, Shock test, Impact test, UN38.3, MSDS |

#### Physical parameters

|                     |                                                                                                                                                      |
|---------------------|------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Spotlight</b>    | 1                                                                                                                                                    |
| <b>Weight</b>       | 375 g                                                                                                                                                |
| <b>Size</b>         | 194 × 61.5 × 76 mm                                                                                                                                   |
| <b>Software kit</b> | PC: ThermoLink app<br>iOS/android: Thermography app                                                                                                  |
| <b>Box contents</b> | TC256 Thermal Camera, Rigid protective case, Wrist strap, Power adapter, Adapter plug, Type-C USB cable, Quick Start Guide, Calibration certificate. |
| <b>Warranty</b>     | Camera: 2 years<br>Battery: 1 year                                                                                                                   |

### ORDERING INFORMATION

| Description                                            | Part number |
|--------------------------------------------------------|-------------|
| TC256 Thermal Camera                                   | 1016-972    |
| <b>Included Accessories</b>                            |             |
| Wrist Strap                                            |             |
| Battery charger (including plug adaptors (UK, EU, AU)) |             |
| USB-C charging/data cable                              |             |
| Rigid protective case                                  |             |
| Quick Start Guide                                      |             |
| Calibration certificate                                |             |

#### SALES OFFICE

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#### TC256\_DS\_EN\_V02

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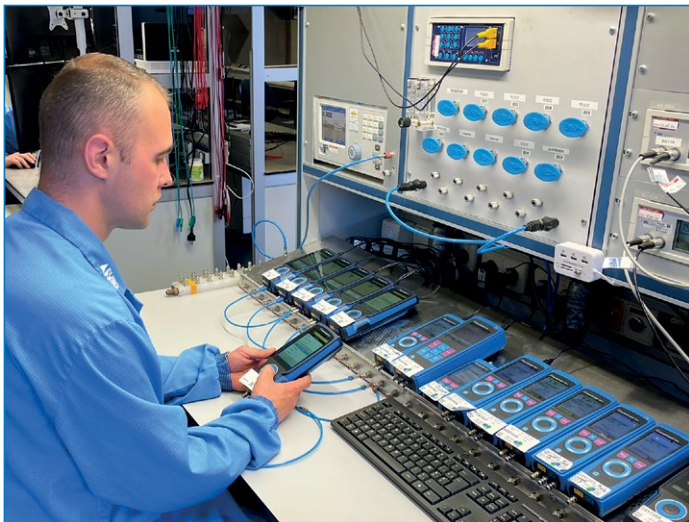
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