

## TC120 Thermal Camera



- High-sensitivity infrared detector
- 120x90 resolution
- 2.4" LCD colour screen
- -20°C~550°C temperature measurement
- Photo and video recording
- Share files via mobile app
- Video Storage in IRGD format, with ThermoLink PC application
- Rechargeable battery

### DESCRIPTION

The TC120 thermal camera provides a 120x90 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, the TC120 is a powerful and easy to use thermal camera.

### FEATURES

- High-sensitivity infrared detector, resolution 120x90
- 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
- Local 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

# TC120

## Thermal Camera

### SPECIFICATIONS

#### Imaging and optics

<b>Detector type</b>	VOx, 7.5 – 14 µm
<b>Infrared resolution</b>	120 × 90@17 µm
<b>Super resolution</b>	Support real-time super-resolution reconstruction to 240×180
<b>NETD</b>	60 mK
<b>Frame rate</b>	25 Hz/9 Hz
<b>Focal length</b>	2.28 mm
<b>Field of view</b>	50 °×38 °
<b>IFOV</b>	7.46 mrad
<b>Min. object distance</b>	0.1 m
<b>D:S</b>	130:1
<b>Focusing mode</b>	Focus-free

#### 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>	Video storage format in irgd (with temp info)
<b>External interface</b>	TYPE-C, UNC ¼"-20 (tripod mounting)

#### Power system

<b>Battery type</b>	Rechargeable lithium-ion battery, non-removable
<b>Operating time</b>	8 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>	355 g
<b>Size</b>	194 × 61.5 × 76 mm
<b>Software kit</b>	PC: ThermoLink app
<b>Box contents</b>	TC 120 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 Battery: 1 year

### ORDERING INFORMATION

Description	Part number
TC 120 Thermal Camera	1016-971
<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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#### TC120\_DS\_EN\_V02

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