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**
- **Rechargable 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

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SPECIFICATIONS

Imaging and optics

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

Measurement and analysis

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

Image display

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

Functions

Laser	Laser indication
Recording function	Photo and video

Storage and transmission

Storage media	16 GB internal storage
Image file type	JPG with temp info
Video file type	Video storage format in irgd (with temp info)
External interface	TYPE-C, UNC ¼"-20 (tripod mounting)

Power system

Battery type	Rechargeable lithium-ion battery, non-removable
Operating time	8 hours
Charging mode	TYPE-C charging; PC/portable charger; Capable of charging while using
Charging time	90% of full charge in 2.5 hours

Environmental parameters

Working temperature	-15°C to 50°C
IP rating	IP54
Drop	2m drop test
Certification	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

Spotlight	1
Weight	355 g
Size	194 × 61.5 × 76 mm
Software kit	PC: ThermoLink app
Box contents	TC120 Thermal Camera, Rigid protective case, Wrist strap, Power adapter, Adapter plug, Type-C USB cable, Quick Start Guide, Calibration certificate.
Warranty	Camera: 2 years Battery: 1 year

ORDERING INFORMATION

Description	Part number
TC120 Thermal Camera	1016-971
Included Accessories	
Wrist Strap	
Battery charger (including plug adaptors (UK, EU, AU)	
USB-C charging/data cable	
Rigid protective case	
Quick Start Guide	
Calibration certificate	

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