

# THERMAL IMAGER

PCE-TC 38



- » **infrared image resolution: 384 x 288 pixels**
- » **internal memory for over 40000 images**
- » **image format: JPG**
- » **WiFi image transmission**
- » **5 different colour palettes**
- » **automatic power-off**

Our thermal imager offers reliable temperature measurement within a range from -20 °C to 550 °C (-4 °F to 1022 °F). The infrared images are displayed with a resolution of 384 x 288 pixels on the 3.5-inch colour display. The compact and user-friendly design of the thermal imager features an ergonomic handle and an intuitive key control system directly below the screen for easy operation.

The camera offers multiple colour palettes, including rainbow and iron oxide red, as well as various viewing options to accurately capture thermal data. With a thermal sensitivity of 0.06 °C and an adjustable emissivity of 0.01 to 1.0, even subtle temperature differences can be detected. It saves more than 40000 images in the internal 6 GB memory in JPG format. With a frame rate of 25 Hz, a wavelength range of 8 ... 14 µm and selectable automatic power-off times, this thermal imager is a versatile tool for professional and private users.

The unique feature of this thermal imager is the possibility of a remote connection via a WiFi network, e.g. to a smartphone from which the thermal imager can be set remotely or the recorded thermal images can be saved directly to the end device. Once a smartphone is connected to the thermal imager via WiFi, the corresponding colour palette, emissivity or even the display of the maximum and minimum value can be set remotely.

## Specification

### Temperature

Measurement range up to -20 ... +550 °C

Resolution 0,1 °C

Accuracy <0 °C: ±3 % | >0 °C: ±2 % or ±2 %

### Temperature

Measurement range up to -4 ... +1022 °F

Resolution 0,1 °F

Accuracy <32 °F: ±3 % | >32 °F: ±2 °F or ±2 %

### General technical data

Units °C, °F

Display type TFT colour display

Display size 3,5 Inch

Display resolution 640 x 480 pixels

Measuring rate 25 Hz

Storage medium Internal memory

Storage capacity 6 GB

Memory capacity (additional information) for approx. 40000 images

Interface Micro-USB, WiFi

Resolution Infrared image: 384 x 288 pixels

Operating time 4 h

Automatic power-off from...to 5 ... 20 min.

Automatic power-off can be deactivated Yes

Emissivity from/to 0.01 ... 1

Wavelength range 8 ... 14 µm

Field of vision (FOV) 28.4° x 21.4° / 13 mm

Colour palette Rainbow, Iron, Cold colours, white-black (+inverted)

Image / video format JPG

Thermal sensitivity 0,06 °C

Menu language German, English, Italian, Chinese

Protection class (device) IP20

Power supply 100 ... 240 V AC | 50/60 Hz

Connector type Euro plug

(Rechargeable) battery 1 x 3,7 V internal, Lithium-ion battery

Capacity 5000 mAh

Operating conditions 0 ... 45 °C, 0 ... 85 % RH

Storage conditions -20 ... 60 °C, 0 ... 85 % RH

Dimensions ( L x W x H ) 245 x 97 x 110 mm

Weight 634 g