

THERMAL IMAGER

PCE-TC 20



- » adjustable emissivity
- » 4 different colour palettes
- » units: °C, °F
- » thermal sensitivity: 60 mK
- » depth of field: 10 cm ... ∞
- » automatic power-off
- » internal memory: 12 MB up to 78 images
- » micro SD card up to 32 GB (optional)

The thermal imager is a device that can be used in many areas such as building inspection, vehicle maintenance, underfloor heating detection and electrical inspection. It covers a measurement range of -20 °C ... +400 °C and enables precise temperature measurements with a resolution of 0.1 °C at an ambient temperature of 25 °C. The thermal imager is adaptable as it features an adjustable emissivity of 0.01 to 0.95, which enables precise measurement of different surface materials.

By selecting from four colour palettes, the display can be optimally adapted to different environments and requirements. In addition, the device offers the option of switching the displayed unit between Celsius (°C) and Fahrenheit (°F) as required. Its thermal sensitivity of just 60 mK ensures that even the smallest temperature differences are recognised, which is particularly advantageous for detailed inspections of electrical installations or heating systems.

The camera has a depth of field of 10 cm to infinity and is therefore suitable for both close-up and long-distance measurements. An automatic power-off function extends the service life of the camera and optimises energy efficiency.

Specification

Temperature	
Measurement range up to	-20 ... 0 °C
Resolution	0,1 °C
Accuracy	±2 °C or ±2 %
Temperature	
Measurement range up to	0 ... 400 °C
Resolution	0,1 °C
Accuracy	±5 °C or ±5 %
Temperature	
Measurement range up to	-4 ... +752 °F
Resolution	0,1 °F
Accuracy	±9 °F

General technical data	
Units	°C, °F
Display type	TFT colour display
Display size	2,4 Inch
Display resolution	240 x 320 pixels
Storage medium	Micro SD card, Internal memory
Storage capacity	12 MB
Memory capacity (additional information)	Internal memory for up to 78 images, supports up to 32 GB micro SD card (FAT32 format only)
Interface	Micro SD card, USB-C
Camera resolution	120 x 90 pixels
Automatic power-off from...to	5 ... 30 min.
Automatic power-off can be deactivated	Yes
Emissivity from/to	0.01 ... 0.95
Focusing range	10 cm
Wavelength range	8 ... 14 µm
Field of vision (FOV)	50 ° (H)
Colour palette	Rainbow, white-black (+inverted), Red hot, Iron
Image / video format	bmp
Measuring distance	0.5 ... 1.2 m
Thermal sensitivity	60 mK
Menu language	English, Chinese, English (GB)
Protection class (device)	IP20
Power supply	5 V DC
(Rechargeable) battery	3 x 1,5 V AAA battery , Alkali-manganese
Operating conditions	-10 ... 40 °C , 0 ... 85 % RH
Storage conditions	-20 ... 60 °C , 0 ... 85 % RH
Dimensions (L x W x H)	210 x 60 x 100 mm
Weight	202 g