

Thermal Imager PCE-TC 30N

Thermometer PCE-TC 30N

Maintenance tool - Infrared thermometer for maintenance with a measuring range up to 450°C (842°F) / 160 x 120 pixels / Image memory for more than 20000 images / Thermal sensitivity $\leq 0.1^{\circ}\text{C}$ (0.18°F) / Measuring rate 9 Hz / Fixed focus / Different color palettes / Image format JPG

The PCE-TC 30N thermal imaging camera for preventive maintenance is the ideal tool for preventative maintenance. This thermal imaging camera is a must-have for electricians, fitters, or general maintenance personnel for trouble shooting and fault prevention on electrical equipment, electromechanical equipment, production process machinery, heating, ventilation, and air conditioning systems, especially when working in harsh environments. The operator can use the PCE-TC 30N high-resolution thermal imaging camera for preventive maintenance, to detect evolving faults on machinery and equipment. The preventive maintenance and service is thus made easy.

The thermal imaging camera PCE-TC 30N was designed in ergonomic design for one-hand operation. Due to the very low weight of 389 g, it is ideal for analyzing machines and systems. In operational maintenance and servicing, this thermal imaging camera is used, for example, for the optical monitoring of bearings and bearing housings, heat exchangers, steam separators, ... or for checking electrical installations. The PCE-TC 30N Thermal Imager, with a sensitivity of less than 0.1°C / 0.18°F , offers a maximum accuracy of $\pm 2^{\circ}\text{C}$ / 3.6°F or $\pm 2\%$ in a temperature range of $-20 \dots 300^{\circ}\text{C}$ / $-4 \dots 572^{\circ}\text{F}$. On the color display of this thermal imager there is the possibility to automatically find and display the warmest and coldest measuring point in the measurement image. The built-in LED allows a better location of sources of error in the dark. With the powerful features, machine irregularities are instantly recognized and appropriate action can be taken on the spot to prevent it. The stored thermal image recordings can be transmitted to a PC or laptop using the corresponding connection cable.

- IR resolution: 160 x 120 pixels
- Measuring range: $-20 \dots 450^{\circ}\text{C}$ / $-4 \dots 842^{\circ}\text{F}$
- Thermal sensitivity: 70 mK
- Memory: 3 GB memory for more than 20,000 pictures
 - 5 different color palettes
 - Hot and cold spot location
 - Picture in Picture function

Specifications:

Infrared sensor

Resolution	160 x 120 pixels
Wavelength	8 ... 14 μm
Thermal sensitivity	70 mk
Refresh rate	9 Hz
Field of view (FOV)	35° x 26°
Focusing	Firm focus

Smallest distance	0.15 m / 5.9 in
Temperature range	-20 ... 450°C / -4 ... 842°F
Accuracy	± 2°C / 3.6°F, ± 2% From 300°C / 572°C, ± 5%
Calibration of the measurement	Auto
Number of spots	1
Number of measuring ranges	1
Emissivity	Range: 0.01 ... 1.00
Color palettes	Rainbow, iron oxide red, cold color, black & white, white & black

Other specifications

Picture in picture function	Adjustable 25%, 50%, 75%, 100%
Camera resolution	300,000 pixels
Screen	2.8" TFT
Screen resolution	320 x 240 pixels
Image memory	Built-in SD card with 3 Gb for more than 20,000 images
Image format	JPG
Power supply battery	Built-in 18650 battery, about 2800-mAh
Power supply power supply	Primary: 100 ... 240V AC 50/60 Hz Secondary: 5V / 2 ADC
Interface	Micro USB for charging and memory readout on a PC
Operating time	Between 2 ... 3 hours
Menu languages	English, Chinese, Italian, German
Automatic shutdown	After 5, 20 minutes or disabled
Ambient temperature	0 ... 45°C / 32 ... 113°F
Storage conditions	-20 ... 60°C / -4 ... 140°F
Humidity	≤ 85% RH (non-condensing)
Dimensions	96 x 72 x 226 mm / 3.8 x 4.1 x 8.9 in
Weight	389 g / < 1 lb
Delivery scope:	

1 x Thermometer PCE-TC 30N
1 x Micro USB Cable
1 x USB Charging Adapter
1 x Carrying Case
1 x User Manual