

INFRARED THERMOMETER

PCE-TC 33N



- » **IR resolution: 220 x 160 pixels**
- » **Measuring range: -20 ... 300°C / -4 ... 572°F**
- » **Thermal sensitivity: 70 mK**
- » **Memory: 3 GB memory for more than 20,000 pictures**
- » **5 different color palettes**
- » **Hot and cold point location**
- » **Picture in Picture function**

°C)

The infrared thermometer PCE-TC 33N is the ideal tool for repair work and prevention measures. This thermal imager is a must-have for electricians, fire fighters, locksmiths, or general service 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.

In preventative maintenance, the high-resolution PCE-TC 33N thermal imager is ideal for maintaining or repairing machinery or other equipment. At the heart of the PCE-TC 33N high-resolution thermography camera is an uncooled microbolometer (uncooled focal plane array) with a resolution of 220 x 160 pixels. The thermography camera was designed in ergonomic design for one-hand operation. Due to the very low weight of just 424 g, it is ideal for analyzing machinery and equipment, for building thermography and many other applications. The PCE-TC 33N thermographic camera offers a measurement accuracy of $\pm 2^{\circ}\text{C} / 3.6^{\circ}\text{F}$ or $\pm 2\%$ in a temperature range of $-20^{\circ}\text{C} \dots 300^{\circ}\text{C} / -4 \dots 572^{\circ}\text{F}$, with a sensitivity of less than 0.

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. With the powerful features, irregularities are immediately detected and appropriate action can be taken on the spot.

Specification

Temperature

Measurement range up to -20 ... +300 °C

Accuracy $\pm 2\%$ / $\pm 2\text{ °C}$

General technical data

Display type TFT colour display

Display size 3,2 Inch

Display resolution 320 x 240 pixels

Storage medium SD card

Storage capacity 3 GB

Memory capacity (additional information) built-in SD card with 3 GB for more than 20000 images

Interface Micro-USB

Camera resolution 300000 pixels

Operating time 3 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) 35 ° x 26 °

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

Menu language English, Chinese, Italian, German

Power supply Mains adaptor: primary: 100 ... 240 VAC 50/60 Hz, secondary: 5 V / 2 ADC

Connector type Device-europlug

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

Capacity 2800 mAh

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

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

Dimensions (L x W x H) 90 x 103 x 223 mm

Weight 424 g