



PCE Americas Inc.  
711 Commerce Way  
Suite 8  
Jupiter  
FL-33458  
USA  
From outside US: +1  
Tel: (561) 320-9162  
Fax: (561) 320-9176  
info@pce-americas.com

PCE Instruments UK Ltd.  
Units 12/13  
Southpoint Business Park  
Ensign way  
Hampshire / Southampton  
United Kingdom, SO31 4RF  
From outside UK: +44  
Tel: (0) 2380 98703 0  
Fax: (0) 2380 98703 9  
info@pce-instruments.com

[www.pce-instruments.com/english](http://www.pce-instruments.com/english)  
[www.pce-instruments.com](http://www.pce-instruments.com)

## Technical Thermal Imager PCE-TC 29

### **PCE-TC 29 Infrared Imaging Camera**

**For visual inspection and non-contact infrared (IR) temperature measurement / Integrated color camera offers picture-in-picture overlay of visual and IR image / Adjustable emissivity / Included MicroSD card memory**

PCE-TC 29 is an infrared imaging camera used for visual inspection and non-contact IR temperature measurement. Ideal for industrial use in electrical, mechanical, and building installations (such as in the auditing of machines, engines, or heating, ventilation, and air conditioning (HVAC) systems), this affordable infrared imager captures and saves 60 x 60 pixel IR resolution images to the included MicroSD memory card.

Locate hot and cold spots with ease by using the infrared thermal imager's picture-in-picture overlay capability. The imager's built-in color camera captures the real-life visual, while the integrated thermography camera acquires the IR temperature signature. The IR temperature signature is superimposed in increments of 25% over the real-life color camera visual, so both images are viewed simultaneously.

- Integrated color camera offers picture-in-picture overlay of real-life visual and infrared (IR) images
- Different color palettes for viewing IR temperature signatures
- Easy-to-read 2.5" TFT color LCD screen
- Display of min / max measured values
- Adjustable emissivity from 0.1 ... 1.0
- Compact, lightweight design
- User-friendly interface

### **Technical specifications:**

Display	2.5" TFT color LCD screen
IR resolution	60 x 60 pixels
Color camera resolution	300,000 pixels
FOV	20 x 20 °
Thermal sensitivity	0.15 °C
Temperature measuring range temperature	-20 ... +300 °C (-4 ... +572 °F)

Temperature measurement accuracy	$\pm 2 \%$ or $\pm 2 \text{ }^\circ\text{C}$
Emissivity	Adjustable from 0.1 ... 1.0
Image acquisition frequency	6 Hz
Infrared spectral band	8 ... 14 $\mu\text{m}$
Mechanism of focus	Fixed focus
Color palettes	Iron, rainbow, rainbow (strong contrast), grey, grey-inverted
Picture-in-picture overlay increments	0 / 25 / 50 / 75 / 100 %
File format	.bmp
Data storage	MicroSD card memory
Power-saving automatic shutdown	Yes, after 12 minutes of inactivity
Operating temperature	-50 ... +40 $^\circ\text{C}$ (-58 ... +104 $^\circ\text{F}$ )
Storage temperature	-20 ... +55 $^\circ\text{C}$ (-4 ... +131 $^\circ\text{F}$ )
Operating and storage relative humidity (RH)	10 ... 80 % RH
Standard compliance	EN 61326-1: 2006
Overflow indication	High
Power supply	4 x AA batteries
Battery life	Approximately 6 hours of continuous use at full charge
Dimensions	223 x 88 x 65 mm (8.78 x 3.47 x 2.56")
Weight	310 g (0.69 lb)

**Delivery contents:**

- 1 x PCE-TC 29 infrared imaging camera
- 1 x MicroSD card
- 4 x AA batteries
- 1 x user manual
- 1 x soft carrying case





