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# Technical Pyrometer PCE-TC 28

### Infrared Imaging Camera PCE-TC 28 Infrared camera for non-contact temperature measurements / adjustable emissivity built-in digital camera / auto power-off / adjustable threshold levels / SD card memory

The infrared camera was designed for taking non-contact temperature measurements. To get accurate readings, the emissivity of the infrared camera can be adjusted, depending on the operation purpose. Besides taking infrared images, the infrared camera can also take normal pictures, as well as a mixture of both, due to the built-in digital camera. This makes it easier for the operator to aim at the target and to recognize and locate hotspots.

The infrared camera is well-suited for a large variety of applications. This includes monitoring of machinery, building inspection or different applications in the hobby and leisure domain, for example. The infrared camera comes with a built-in SD card slot for MicroSD cards. The device supports different memory card capacities. It is possible to store up to 6000 images per gigabyte on the SD card of the infrared camera.

- built-in digital camera
- adjustable emissivity
- fast sampling time
- MIN/MAX indication
- exchangeable Li-ion battery
- auto power-off function
- TFT display with backlight
- protective cap for the lens

### Technical specifications:

Tem	perature

Temperature				
Measurement range	-20 +300 °C			
Accuracy	±2 %, ±2 °C			
Emissivity correction on screen	Yes			
Setting of background temperature	Yes			
Image				
Frequency image recording	9 Hz			
Type of detector	Uncooled pyroelectric ceramics			
Thermal sensitivity	≤150 mK			
Infrared spectral band	6.5 14 μm			
Camera	48608 Pixel			
Field of view	38 x 38 °			
Mechanism of focus	Fixed focus			
Parallax correction of visual and IR image 0.5 m, 1.0 m, 2.0 m, 3.0 m				
Picture-in-picture coverage of visual and	0 / 25 / 50 / 75 / 100 %			
IR image				
Hot / cold spot localisation	Yes			
Image recording and data storage				
Image recording	Image can be viewed before saving			
Storage medium	MicroSD card can save 6000 images per GB			
File format	.bmp			
Memory view	Possibility to scroll through all saved images			
Operating temperature	0 +50 °C			
Storage temperature	-20 +60 °C			
Relative air humidity	10 90 %, non-condensing			
Display	2.2 " diagonal, (320 x 240 TFT LCD)			

#### Emissivities

Material	Thermal emissivity	Material	Thermal emissivity
Asphalt	0.90 0.98	Fabric (black)	0.98
Concrete	0.94	Human skin	0.98
Cement	0.96	Foam	0.75 0.80
Sand	0.90	Coal	0.96
Soil	0.92 0.96	Lacquer	0.80 0.95
Water	0.92 0.96	Lacquer (matt)	0.97
Ice	0.96 0.98	Rubber (black)	0.94
Snow	0.83	Plastics	0.85 0.95
Glass	0.90 0.95	Wood	0.90
Ceramics	0.90 0.94	Paper	0.70 0.94
Marble	0.94	Chromium (oxidised)	0.81
Plaster	0.80 0.90	Copper (oxidised)	0.78
Mortar	0.89 0.91	Iron (oxidised)	0.78 0.82
Brick	0.93 0.96	Textiles	0.90

## **Delivery contents**

- 1 x Infrared Imaging Camera PCE-TC 28
- 1 x rechargeable Li-Ion battery
- 1 x USB data cable
- 1 x mini tripod
- 1 x mains adaptor
- 1 x carrying case
- 1 x user manual