

TC3231

Thermal Camera



- **2.2 inch (55.88 mm) 320*240 TFT LCD display**
- **32 x 31 pixel resolution IR temperature measurement**
- **Measurement range -20 ° to 300 °C / -4 °F to 572 °F**
- **Adjustable emissivity**
- **Micro SD memory for storing up to 6000 images**
- **High & Low Alarm (enable & disable)**
- **Selectable colour palette**
- **Image blending with selectable distance of 0.5 m, 1 m, 2 m or 3 m**

DESCRIPTION

The Megger TC3231 offers a professional infrared 32 x 31 pixels image thermometer with a 2.2 inch (55.88 mm) colour TFT LCD display. Quick, accurate readings are possible; covering a wide range of surface temperature measurements.

The product combines the convenience of an infrared thermometer with the visual advantage of a thermal imager providing a troubleshooting camera with infrared heat map.

The TC3231 features a range of selectable thermal image colour palette display options along with high / low user preset temperature alarms. For convenience, background temperature is also user selectable.

An easy to use image blending function is also featured; the camera takes an aligned visible, non-infrared, image, together with a full infrared image. The 2 pictures are then blended and can be adjusted between 0 to 100%. This makes identifying problems and pinpointing their location far easier.

As well as centre spot temperature measurement, the camera also offers simultaneous hot and cold spot tracking, with resultant values and location updated continuously on the display.

Up to 6000 images can be saved on the included micro SD memory card which can be downloaded to a PC via the USB interface in BMP file format. An SD card adapter is also provided for file transfer directly to a computer if required.

FEATURES

- Image capture frequency 9 Hz
- Thermal sensitivity (NETD) ≤ 150 mK
- Hot spot and cold spot tracking
- Visual camera & images capture (BMP) (6000 images)
- Date/time setup controls
- Li-Ion rechargeable battery
- USB interface for charging and downloading images from SD memory
- Auto power off (10 minutes of inactivity)
- Standard camera mount



SPECIFICATIONS

Temperature:

Measurement Range	-20 to 300 °C (-4° to 572 °F)
Measurement Accuracy	+/-2% +/-2 °C as tested (at 25 °C)
On-Screen Emissivity Correction	Yes
On-Screen Reflected Background Temperature Compensation	Yes

Image Performance:

Image Capture Frequency	9 Hz
Detector Type	Un-cooled pyroelectric ceramic
Thermal Sensitivity (NETD)	≤ 150 mK
Infrared Spectral Band	6.5 µm to 14 µm
Visual Camera	48608 pixels
Field of View	38° x 38°
Focus Mechanism	Fixed Focus

Image Presentation:

Palettes	Hot Metal, Ironbow, Rainbow, Rainbow High Contrast, Grayscale (white hot), Grayscale (black hot)
Level and Span	Auto

Image capture and data storage:

Image Capture	Image available for review before a save
Storage Medium	Micro SD memory card, stores up to 6,000 images, 4 GB supplied
File Format	bmp
Memory Review	Scroll through all saved images and view on-screen images / delete unwanted images
Operating Temperature	0 °C to +50 °C
Storage Temperature	-20 °C to +60 °C
Relative Humidity	10 % to 90 % non-condensing
Display	2.2 inch (55.88 mm) diagonal 320 x 240 TFT LCD
Overload Display	----
Dimensions	208 mm (H) x 62 mm (W) x 150 mm (D)
Weight	406 g (including battery)
Battery (fitted)	18500 3.7 V 1400 mAh Li-Ion
Auto Power Off	10 minutes

ORDERING INFORMATION

Description	Part number	Description	Part number
TC3231 Thermal Camera	1012-514	Included accessories	
		USB mains charger	
		Charger adapters (UK, Schuko, US, AUS),	
		USB lead	
		Micro SD card	
		SD card adapter	