

**INTRODUCTION**

The Metravi MT-19 is capable of non-contact infrared temperature measurements at the touch of a button. The built-in laser pointer increases target accuracy while the dot-matrix LCD and handy push-buttons combine for convenient, ergonomic operation.

This non-contact Infrared Thermometer can be used to measure the temperature of objects' surface that is difficult or impossible to be measured by traditional (contact) thermometers (such as moving objects or if the surface has electricity/ current or for objects which cannot be touched due to high heat etc.).

**FEATURES**

- 150ms faster sampling time with 1% high accuracy
- **Dual Laser sighting to show the area being measured**
- **High Distance:Sighting Ratio of 75:1**
- **Temperature measurement up to 2200°C**
- Temperature measurement with date and time stamp
- Hot Spot location
- Automatic Data Hold
- Emissivity digitally adjustable from 0.10 to 1.0
- MAX/MIN/AVG/DIF temperature displays
- Dot-matrix LCD display
- Backlit display with adjustable 8 brightness levels
- Automatic selection range and display resolution 0.1°C (0.1°F)
- Trigger lock Type K input available
- Set high and low alarms
- Audio & visual alarm indication with change of backlit colour of LCD display Memory Data with Date/Time stamp
- **Datalogger for up to 32000 data points**
- Sampling rate can be set from 1Sec to 3600 Secs
- **Bluetooth interface**
- Online temperature measurement
- Downloading of recorded data
- Auto power-off (selectable from 7 to 60 secs)

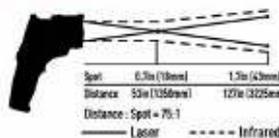


**Distance & Spot Ratio**

As the distance (D) from the object increases, the spot size (S) of the area measured by the unit becomes larger. The relationship between distance and spot size for each unit is listed below. The focal point for each unit is 914mm (36"). The spot sizes indicate 90% encircled energy.



**75:1 Distance to Sighting Ratio**



Measure temperatures easily & accurately for heated or dangerous-to-touch equipment from a safe distance

\*Technical Specifications & Appearance are subject to change without prior notice

**Wide Range Application**

For Food Preparation, Safety and Fire Inspections, Plastic Moulding, Asphalt, Marine, Screen Printing, to measure Ink and Dryer Temperatures, HVAC/R, Diesel and Fleet maintenance.



**SPECIFICATIONS**

**TK Temperature**

- Range** : -50 to 1370°C (-58 to 2498°F)
- Accuracy** : ±2°C (3.6°F) at -50 to 0°C (-58 to 32°F)  
±0.5% of reading ±1.5°C (3°F) at 0 to 1370°C (32 to 2498°F]
- Display Resolution** : 0.1°C (0.1°F) <1000  
1°C (1°F) >1000

**IR Temperature**

- Range** : -50 to 2200°C (-58 to 3992°F)
- D:S** : 75:1
- Display Resolution** : 0.1°C (0.1°F) <1000  
1°C (1°F) >1000
- Accuracy** : For targets : Assumes ambient operating temperature of 23 to 25°C (73 to 77°F)  
±3.0°C (5.4°F) at -50 to 20°C (-58 to 68°F)  
±1.0% ±1.0°C (1.8°F) at 20 to 500°C (68 to 932°F)  
±1.5% at 500 to 1000°C (932 to 1832°F)  
±2.0% at 1000 to 2200°C (1832 to 3992°F)
- Repeatability** : ±1.5°C (2.7°F) at -50 to 20°C (-58 to 68°F)  
±0.5% or ±0.5°C (0.9°F) at 20 to 1000°C (68 to 1832°F)  
±1.0% at 1000 to 2200°C (1832 to 3992°F)

- Response Time** : 150ms
- Spectral Response** : 8-14um
- Emissivity** : Digitally adjustable from 0.10 to 1.0

**Over Range Indication** : LCD will show "----"

**Polarity** : Automatic (No indication for positive polarity);  
Minus (-) sign for negative polarity

**Diode Laser** : Output <1 mW, Wave length 630~670nm,  
Class 2 laser product

**Operating Temperature** : 0 to 50°C (32 to 122°F)

**Storage Temperature** : -10 to 60°C (14 to 140°F)

**Relative Humidity** : 10%-90%RH operating. <80%RH storage

**Power Supply** : 9V battery, NEDA 1604A or IEC 6LR61, or equivalent

**Safety** : "CE" Comply with EMC

**MT-19**  
Tripod  
Mountable  
(tripod included with kit)



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