

Infrared Thermometers



Technical Data

MT695

The new and upgraded MT695 is small and a compact pistol grip type infrared thermometer which can provide much faster and accurate readings for most surface temperature measurements due to its super fast sampling rate of 150 milliseconds. The distance to spot ratio has been increased to 20:1 and the temperature range is from -50°C to 800°C . Two laser pointers have also now been added, which converge to a single spot when the unit is at the optimum distance from the object being measured. Special features include adjustable emissivity from 0.1 to 1.0. Max hold, large backlit LCD display, High and Low alarm and a trigger lock for continuous use.

Features Include:

- 20 to 1 distance to target ratio measures smaller surface areas at greater distances
- Maximum temperature display from -50°C ~ 800°C
- Built-in dual laser pointers for accurate targeting
- 150ms Fast Sample rate
- Automatic Data Hold
- Max display
- 0.1°C Resolution
- Adjustable Emissivity from 0.1 to 1.0
- Automatic power off
- Selectable $^{\circ}\text{C}$ or $^{\circ}\text{F}$
- High and Low alarm setting
- Auto Power Off
- Double injection rubber housing
- Trigger lock for continuous use
- White backlit LCD display

General Specifications

Display Resolution	: 0.1°C (0.1°F) < 1000 1°F > 1000
Response Time	: 150ms
Spectral Response	: 8 ~ 14 μm
Emissivity	: Digitally adjustable from 0.10 to 1.0
Overrange Indication	: LCD will show "----"
Polarity	: Automatic (no indication for positive polarity); minus (-) sign for negative polarity
Diode Laser	: Output < 1mW, Wavelength 630 ~ 670nm, Class 2 (II) laser product
Operating Temperature	: 0 to 50°C (32 to 122°F)
Storage Temperature	: -10°C to 60°C (14°F 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

Accuracy for Targets	
Assumes ambient operating temperature of 23 to 25°C (73 to 77°F)	
-50 ~ 20°C (-58 ~ 68°F)	± 2.5°C (4.5°F)
20°C ~ 300°C (68°F ~ 392°F)	± 1.0% ± 1.0°C (0.9°F)
300°C ~ 800°C (572°F ~ 1472°F)	± 1.5%
Repeatability	
-5 ~ 20°C (-31 ~ 68°F)	± 1.3°C (2.3°F)
20 ~ 800°C (68 ~ 1472°F)	± 0.5% or ± 0.5°C (0.9°F)