

LTVI-100 Pocket-size Infrared Thermometer (Waterproof)







Handheld Infrared Temperature Measurement

Measure surface temperature easily from a distance. This non-contact type temperature sensor is ideal for applications where contact may cause contamination, the operator may be at risk due to high temperature, or when an object is in motion.



Washable

The unit has a water- and dust-proof structure (IP67) to allow washing with water.

Use of antibacterial resin allows sanitary operation.

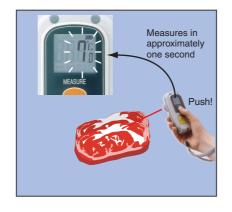


IP67:

Waterproof : Not affected when dropped into water. Dustproof : No dust entry into the instrument.

High speed response

Temperature can be measured in approximately one second after a measurement button has been pressed. Temperature can be monitored while the measurement button is kept pressed.



Easy-to-use with useful functions

Easy operation and useful functions such as °C/°F swtichable, auto-power off, adjustable emissivity.

Compact and lightweight

Fits into your pocket for easy portability.



Name of Parts

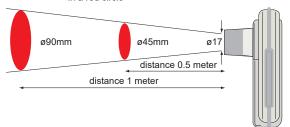


Specification

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Measuring range	-40 to 300°C	
Ambient temperature	0 to 50°C [32 to 122°F]	
Ambient humidity	Less than 90%RH (no condensations)	
Accuracy	When emissivity = 1 at ambient temperature 25°C ±2°C 0 to 300°C : ±(1% + 1 digit) of measured value or ±(2°C + 1 digit), whichever is larger. 0 to -30°C : ±3°C ± 1 digit Lower than -30°C : ±5°C ±1 digit	
Repeatability	Within 1°C ± 1 digit	
Response	1 second (90% response)	
Collimation	Laser beam (650nm 1mW JIS class 2) specifies the center	
Display resolution	0.5°C (lower than -20°C), 1°C (higher than 100°C)	
Emissivity setting	0.8 to 1.0 (0.05 step, changeable with internal switch) * Default: 0.95	
Auto power OFF	Power goes off about 30 seconds after the last key operation	
Water and dust-proof structure	IP67	
Safety standards	CE marking (EMI EN61326 ClassB, EMS EN61326 Annex C) PS/C mark (for portable devices with laser beam)	
Housing material	ABS (antibacterial)	
Weight	123g (including batteries)	
Power supply	Batteries (2 pieces, AAA), continuous operation of 10 hours.	

Measuring range

Displays average temperature in a red circle



Model code

Pocket-size Infrared Thermometer

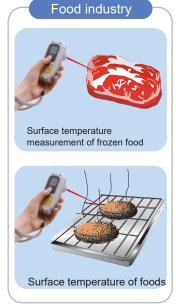
LTM-100

(Order code : LTM-100*A)

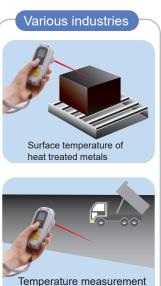
Accessory: Strap (1 piece), Alkaline batteries (2 pieces, AAA [triple A])

59.6 25 29

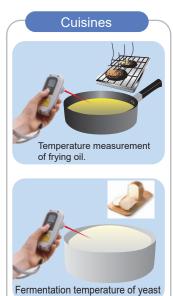
Major applications







of road surface (asphalt).



Can we measure any objects with an infrared thermometer?

An infrared thermometer detects infrared to measure temperature. Normally, objects that absorb more infrared emit more infrared.

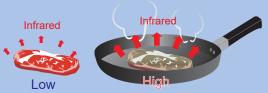
This value is called emissivity (e). We can find many objects with emissivity around 0.95 in our

normal surroundings, and this instrument can measure most materials both liquid and solid.

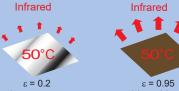
(factory default: 0.95) Radiation emissivity can vary from object to object and is

typically lower on objects having shiny surfaces

This may result in indication errors on the infrared thermometer.



Objects at a higher temperature emits more infrared.



At the same temperature, a shiny object has lower emissivity and produces less infrared emissivity.

Use cautions to measure under the following conditions.



Measures temperature of wrap and glass.



Surface of mirror and shiny objects

When an object is lower than ambient temperature

Temperature around the object is measured simultaneously

When an object is higher than ambient temperature

Results in indication error due to low emission



Temperature of vapor and powder dust is measured simultaneoulsy





Selecting Emissivity (Reference data)

This table shows emissivity from typical measured items. Note: Infrared emissivity amount depends on the surface status and measured temperature. Please refer to the following table just for a rough standard.

Objects	Emissivity
Water, Ice	0.98
Soil	0.92 to 0.96
Concrete (wet)	0.96 to 0.98
Concrete (dry)	0.91 to 0.95
Ceramic	0.85 to 0.95
Stones	0.92
Plastics	0.90 to 0.95
Rubber (black)	0.95
Wood	0.98
Paper	0.92

Objects	Emissivity	
Cloth, Fabrics (colored)	0.95	
Leather and Fur	0.96	
Human skins	0.99	
Vege. and Fruits	0.98	
Bread and Confection	0.98	
Meat	0.98	
Copper oxide	0.5 to 0.6	
Iron oxide	0.7 to 0.8	
Painted surface	0.8	
Tiles	0.8	
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Adjustable emissivity range: 0.8 to 1.0

Use of a contact type and a non-contact type increases more precise setting of radiation factor from the measured object.

Contact type thermometers





Caution for using laser beam products



Do not look in the laser beam nor point it towards a person's eyes. (Use caution against reflection when measuring a shiny object like a mirror) Do not allow children to operate this device.



- For prevention of a fire, an explosion accident and machinery trouble, please do not use it at an atmosphere of inflammable or explosive gas, excessive dust, steam and electric conductivity excessive dust.
- This product is a sensor for the temperature measurement. This product is a sensor for the temperature measurement. Please be not used except for the temperature measurement.
- It is not designed for use with medical equipment.
- By surface state, temperature, color and atmosphere of a measurement object, there is the case that the measurement is difficult.



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