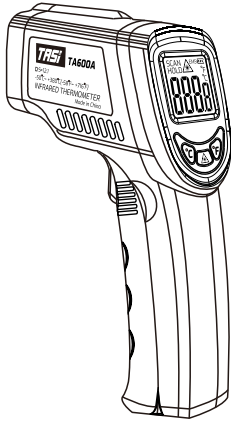




TA600A

Infrared Thermometer

Instruction manual



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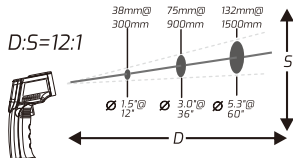
PB01-0092

- Before you use this unit, check on the plastic housing carefully. If there is any damage, do not use it.
- Do not point laser directly at eye or indirectly off reflective surfaces.
- Do not use this unit in the environment of explosive gas, steam or dusty.

Caution

To avoid the damage of the unit or the target, please protect from the following situations:

- EMF(electro-magnetic fields) from arc welders, induction heaters.
- Thermal shock (caused by large or abrupt ambient temperature changes-allow 30 minutes for unit to stabilize before use.
- Do not leave the unit on or near objects of high temperature.



Thank you very much for your patronage and choosing our products. Before you use this product please read this manual carefully as it will familiarize you with the correct operating procedure .

Introduction

This infrared thermometer is used for measuring the temperature of the object's surface, which is applicable for various hot, hazardous or hard-to-reach objects without contact safely and quickly. This unit consist of Optics, Temperature Sensor Signal amplifier, Processing circuit and LCD Display, The Optics collected the infrared energy emitted by object and focus onto the Sensor. Then the sensor translates the energy into an electricity signal. This signal will be turned out to be digital shown on the LCD after the signal amplifier and processing circuit.

Warning & Cautions

Warning

To avoid the potential situation may cause harm or damage to people, please pay attention to the following items:

-1-

Distance to Spot size

When take measurement, pay attention to the Distance to Spot Size. As the Distance (D) from the target surface increases, the spot size (S) of the area measured by the unit becomes larger. The Distance to Spot size of the unit is 12:1.

This unit is equipped with a laser, which is used for aiming Field of view:

Make sure the target is larger than the unit's spot size. The smaller the target the closer measure distance. When accuracy is critical, make sure the target is at least twice as large as the spot size.

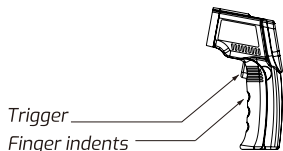
Emissivity

Most organic materials and painted or oxidized surfaces have an emissivity of 0.95 (pre-set in the unit). Inaccurate readings will result from measuring shiny or polished metal surfaces. To compensate, cover the target surface with masking tape or flat black paint. Measure the tape or painted surface when the tape or painted reach the same temperature as the material underneath.

Operation

Operating the meter:

- Open the battery door and insert 1x9V AAA batteries properly;
- Pull the trigger to turn on the unit;
- Aim at the target surface and pull the trigger, then temperature will be shown on the LCD. This unit is equipped with a laser, which is only used for aiming.



Locating a Hot Spot

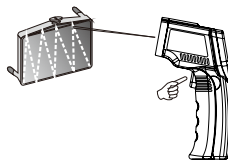
To find a hot spot, aim the thermometer outside of interest, then scan across with an up and down motion until you locate the hot spot.

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Specification

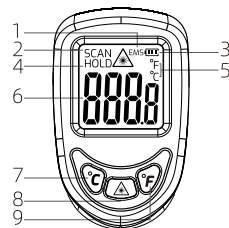
Temperature range	-32~380°C(-25.6~716°F)
Accuracy	0°C~380°C (32°F~716°F): ±1.5°C(±2.7°F) or ±1.5% -32°C~0°C(-25.6°F~32°F): ±3°C(±5°F) Whichever is greater
Resolution	0.1°C or 0.1°F
Repeatability	1% of reading or 1°C
Response time	500 mSec, 95% response
Spectral response	8-14 μm
Emissivity	0.95 Preset
Operating Temperature	0~40°C(32~104°F)
Operating Humidity	10~90%RH non-condensing, up to 30C(86°F)
Storage Temperature	-20~60°C(-4~140°F)
Distance to Spot size	12:1
Product size	9v battery
Product power	162*87*38mm
Product weight	103g

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LCD display

1. Emissivity symbol
2. Scanning icon
3. Low Battery icon
4. Data hold icon
5. Temperature unit symbol
6. Temperature reading
7. Celsius unit
8. Laser on icon
9. Fahrenheit unit



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Maintenance

Lens Cleaning:

Blow off loose particles using clean compressed air. Gently brush remaining debris away with a moist cotton swab. The swab may be moistened with water.

Case cleaning:

Clean the case with a damp sponge/cloth and mild soap.

Note:

- Do not use solvent to clean plastic lens. - Do not submerge the unit in water.

TASI

Product: Infrared Thermometer

Model: TA600A

Manufacture place: **MADE IN CHINA**

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