

Pro'sKit®

MT-4606

INFRARED THERMOMETER

FDA FC CE

KAT
Electronics **Kat** trading



User's Manual
1st Edition,

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3. Distance Spot Ratio

The farther the target, the larger the testing spot area, it means: As the distance from thermometer to the object increases, the spot size of measuring area becomes larger, (as in diagram 1) it is named as "D:S" (Distance Spot Ratio). The diameter of the target spot area is 3.0cm when you test from distance 36cm, and the thermometers will show the average temperature of target spot area with diameter 3.0cm.

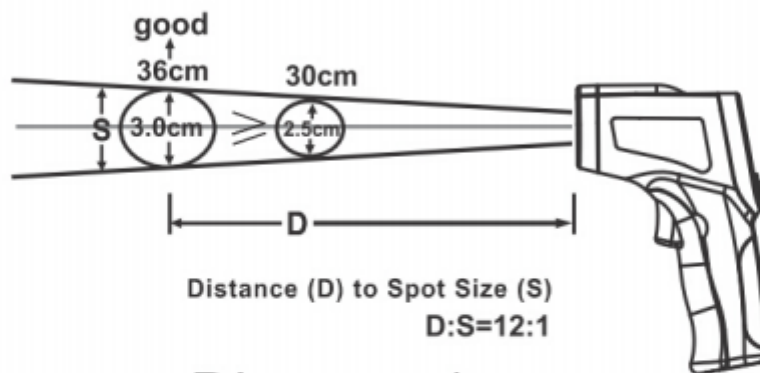


Diagram 1

4. Emissivity

Most organic materials, painted or oxidized surfaces have an emissivity of 0.95 (pre-set in the unit). Inaccurate readings will occur if the surface to be measured is shiny or polished such as stainless steel or aluminum. To obtain better accuracy, please cover the surface with masking tape or flat black paint before measuring. Measure the tape or painted surface when the tape or painted reach the same temperature of the material underneath. Please kindly note: thermometer can not measure the temperature of target objects through the surface of glass. And steam, dust, smog will lower the accuracy.

5. Detailed function

- 1: LCD
- 2: laser button
- 3: function button
- 4: °C/°F button
- 5: infrared lens
- 6: measurement trigger

Diagram 2



Button Function:

After power on

- 1) Press button 4 (°C/°F button), switch the °C/°F
- 2) Press button 2 (laser button), test with laser
- 3) Press button 3 (function button) to get into the emissivity adjust, and then press button 2 or 4 to adjust emissivity
- 4) Press and hold button 6 (measurement trigger) and then the same time press button 2 to turn on or turn off the backlight

Display

- 1. Low Battery Indication: to remind user to change battery
- 2. Laser Sign: test with laser
- 3. Backlight Indication: working with backlight
- 4. Data Hold: to keep current reading
- 5. Scan Mode: shows on LCD when testing
- 6. Measuring Result: current temperature reading
- 7. Max Measuring Reading: it shows maximum temperature reading after pressing the measure button and holding for a while

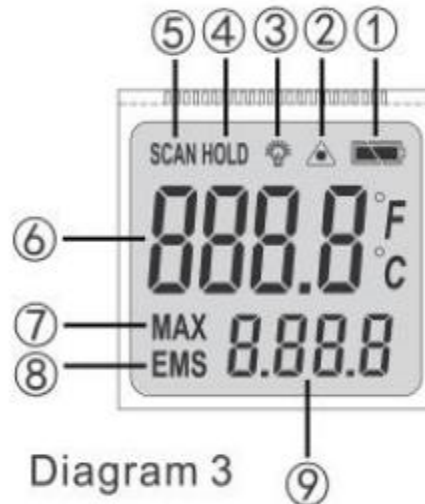


Diagram 3

8. Emissivity: adjustable from 0.1 to 1.0 for testing of different articles

9. Setting Display: display the related information you set

6. Infrared thermometer should be protected in the following:

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

7. Maintenance

1. Lens cleaning: use clean compressed air to blow off loose particles, use a soft brush to remove debris, at last clean it with damp cotton cloth.
2. Case cleaning: clean the case with a damp sponge/cloth and mild soap.

NOTE:

- 1. Do not use solvent to clean lens.**
- 2. Do not submerge the unit in water**