MAXIMUM®

Infrared Thermometer

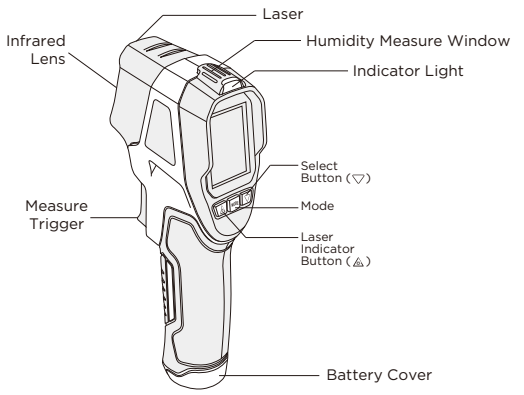
model no. 057-4663-4

IMPORTANT:
Please read this manual carefully before using this Infrared Thermometer and save it for reference.

INSTRUCTION MANUAL

2 GUIDE

model no. 057-4663-4



⚠ Do not point laser directly or indirectly (through reflective surfaces) at eye.

3 QUICK START INSTRUCTIONS

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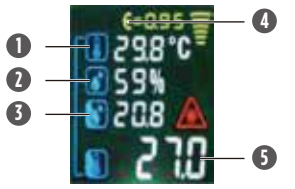
GUIDE



1. Ambient temperature
2. Ambient humidity
3. Dew point temperature
4. Emissivity rate
5. Object temperature

1. Using a small screwdriver, open the battery cover by removing the small screw that secures the cover. Install 4 AAA batteries, reinstall the battery cover, and tighten the screw. Be careful not to overtighten.
2. Trigger: Press it, power on and start using.
3. Laser indicator button: Press it to display the laser mark or not display the laser mark on the screen.
4. Mode:
   Press it to change the mode to thermal bridge mode (see figure A).
   Press again change to emissivity mode (see figure B), then press the laser indicator button and select button to adjust the emissivity rate.
5. Press Mode button and Trigger at the same time to change between °C and °F readings.
6. Data hold: H
7. Battery indicator:

figure A

figure B

4 MILDEW MODE

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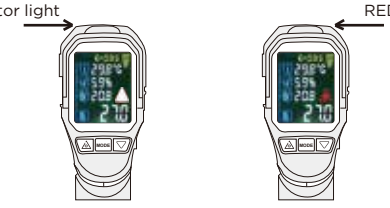
Condensation moisture/risk of mildew indicator

The dew point is the temperature below which water droplets begin to condense into droplets, mist or dew. Condensation water occurs when the temperature of an inside wall or window is lower than the dew point temperature of the room. These areas become damp and are a breeding ground for mildew/mould and can cause possible material damage.

This thermometer will calculate the dew point using integrated sensors for ambient temperature and relative humidity. At the same time, the surface temperature of the object is determined with the aid of infrared temperature measurement. By comparing these values, it is possible to identify areas that are at risk of condensation moisture.

The indicator light colour, as well as visual and acoustic signals, will indicate the probability of condensation moisture occurring.

GREEN indicator light — RED indicator light



No risk of condensation moisture/mildew risk

Risk of condensation moisture/mildew risk

5 THERMAL BRIDGE MODE

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Thermal bridge mode

In buildings, a thermal bridge is an area of wall that conducts heat more than the rest of the wall. If the outside temperature is lower than the inside temperature, when measured from the inside, the temperature in this area will be lower that of the rest of the wall. This often indicates faulty or inadequate insulation.

In thermal bridge mode, this thermometer compares the ambient temperature with the surface temperature. If there is a large difference in these temperatures, the indicator lights will change colour depending on the magnitude of the temperature difference.

GREEN: difference less than 2.5°C ↓ — YELLOW: difference between 2.5 and 5°C ↓ — RED: difference greater than 5°C ↓

Setting the emissivity

An integrated sensor head detects the material/surface-specific infrared radiation emitted by all objects. The level of these emissions depends on the by the specific emissivity of the material (0.01 to 1.00). The device is preset to emissivity of 0.95, which is suitable for most organic materials and non-metals.

To set the emissivity, press the Mode button twice then use the left and right (+ and -) buttons to adjust the value.

See table on page 8 for applicable emissivity values.

6 SPECIFICATIONS

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Response Time	≤0.8 s
Emissivity	Adjustable (0.1 to 1.0)
Distance to Spot Ratio	12:1
Temperature Range and Accuracy	-40 to 600°C (-40 to 1112°F) -40 to 0°C (±3°C) 0 to 600°C (±2% reading or ±2°C)
Ambient Temperature and Accuracy	32 to 113°F/0 to 45°C (±2°F/±1°C) 14 to 32°F/-10 to 0°C and 113 to 140°F/45 to 60°C (±3°F/±1.5°C)
Ambient Humidity	±4.0% RH (20–80%) ±5.0% RH (0–20%; 80–100%)
Dew Point Temperature and Accuracy	14 to 122°F/-10 to 50°C (±3°F/±1.5°C)
Laser Target Pointer	Multi-dot Targeting
Colour Display LED	Colour display
Storage Temperature	-4 to 122°F (-20 to 50°C)
Power Life	About 10 hours
Power	4 x AAA batteries

7 MAINTENANCE

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Maintenance

1. Lens cleaning: Use clean, compressed air to blow off loose particles. Use a clean, soft brush to remove any debris. If necessary, clean with a clean, damp, cotton cloth.
2. Case cleaning: Clean the case with a damp sponge/cloth and mild soap.

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

DISPOSAL

DISPOSAL OF THIS ARTICLE

Dear Customer,
If you at some point intend to dispose of this article, please keep in mind that many of its components consist of valuable materials which can be recycled. Please do not dispose of it in the garbage. Check with your local council for recycling facilities in your area.

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Applicable Emissivity for Various Materials (for reference only)

Material	Emissivity	Material	Emissivity
Asphalt	0.90 to 0.98	Textile (black)	0.98
Beton	0.94	Human skin	0.98
Sand	0.90	Soap bubble	0.75 to 0.80
Soil	0.92 to 0.96	Charcoal (powder)	0.96
Water	0.92 to 0.96	Lacquer	0.80 to 0.95
Ice	0.96 to 0.98	Lacquer (reluster)	0.97
Snow	0.83	Rubber (black)	0.94
Glass	0.90 to 0.95	Plastic	0.85 to 0.95
Ceramic	0.90 to 0.94	Timber	0.90
Marble	0.94	Paper	0.70 to 0.94
Gypsum	0.80 to 0.90	Chromic oxide	0.81
Compo	0.89 to 0.91	Copper oxide	0.78
Brick	0.93 to 0.96	Iron oxide	0.78 to 0.82
		Stainless steel and aluminum	0.2 to 0.3

9 WARRANTY

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This MAXIMUM product carries a three-year (3) warranty against defects in workmanship and materials.

This product is not guaranteed against wear or breakage due to misuse and/or abuse.

Made in China.
Imported by
MAXIMUM Canada Toronto, Canada M4S 2B8