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› DEASOMIYE Digital Infrared Thermometer GM-550 Red User Manual

DEASOMIYE GM-550-Red-US

DEASOMIYE Digital Infrared Thermometer

MODEL: GM-550 RED

INTRODUCTION

The DEASOMIYE GM-550 Red is a professional hand-held digital infrared thermometer designed for non-contact temperature measurement. It offers high accuracy and a wide temperature range, making it suitable for various industrial, household, and automotive applications. This manual provides essential information for the safe and effective use of your device.

Important Note: This laser thermometer gun is NOT suitable for human/internal body temperature use. It is designed for repairs around the home, cooking, HVAC, automotive use, and other DIY jobs.

SAFETY INFORMATION

- Do not point the laser directly at eyes or indirectly off reflective surfaces.
- Do not use the thermometer for measuring human body temperature.
- Keep the device away from electromagnetic fields generated by arc welders or induction heaters.
- Avoid exposing the device to extreme temperatures or humidity.
- Always ensure the battery compartment is securely closed.

Not For Use on Humans

Our infrared thermometers do not measure internal temperatures. They are for inanimate objects only.



Image: The thermometer with a clear warning indicating it is not suitable for measuring human body temperature.

PRODUCT OVERVIEW

The DEASOMIYE GM-550 Red infrared thermometer features a user-friendly design with intuitive controls and a clear display.



Image: Front view of the DEASOMIYE GM-550 Red Digital Infrared Thermometer, showing its red and black design and the included AAA batteries.

Key Features:

- **High Accuracy:** Provides precise readings with an accuracy of $\pm 2\%$ or $\pm 2\text{ }^{\circ}\text{C}$.
- **Wide Temperature Range:** Measures temperatures from -58°F to 1022°F (-50°C to 550°C).
- **Adjustable Emissivity:** Emissivity range of 0.1 to 1.0 (preset 0.95) for accurate measurements on various surfaces.
- **Non-Contact Measurement:** 12:1 Distance-to-Spot (D:S) ratio allows safe measurement from a distance.
- **Backlit LCD Screen:** Ensures clear readability in various lighting conditions.
- **Unit Conversion:** Easily switch between Fahrenheit ($^{\circ}\text{F}$) and Celsius ($^{\circ}\text{C}$).
- **Auto-Off Function:** 10-second auto-off to conserve battery life.
- **Low Battery Indicator:** Alerts when batteries need replacement.

Additional Functions



Laser Aiming



Backlit Switch



°C / °F Selection



Data Hold



1.5V battery



Image: A visual representation of the thermometer's additional functions, including laser aiming, backlit switch, °C/°F selection, data hold, and 1.5V battery compatibility.

Backlight Display



Image: A close-up view of the thermometer's backlit digital display, showing temperature readings and various icons for status.

SETUP

Battery Installation:

The thermometer requires 2 x AAA batteries (included). To install or replace batteries:

1. Locate the battery compartment at the base of the handle.
2. Open the battery compartment cover.
3. Insert the 2 AAA batteries, ensuring correct polarity (+/-).
4. Close the battery compartment cover securely.

Multi-Functional

Easily measure the temperature of ovens, car engines, air conditioning, and more!



Image: A diagram illustrating the simple process of opening the handle to access and replace the batteries in the thermometer.

Video: An official product video demonstrating the unboxing, battery installation, and basic operation of the Digital Infrared Temperature Gun.

OPERATING INSTRUCTIONS

Taking a Measurement:

1. Point the thermometer at the object you wish to measure.
2. Press and hold the trigger to activate the laser and begin continuous measurement.
3. The laser pointer helps you aim at the desired target.
4. Release the trigger to hold the current temperature reading on the display.

For best accuracy, the distance between the thermometer and the object of measurement should be approximately 14 inches, utilizing the 12:1 D:S ratio.

Highly Accurate

Get the results you need right away.

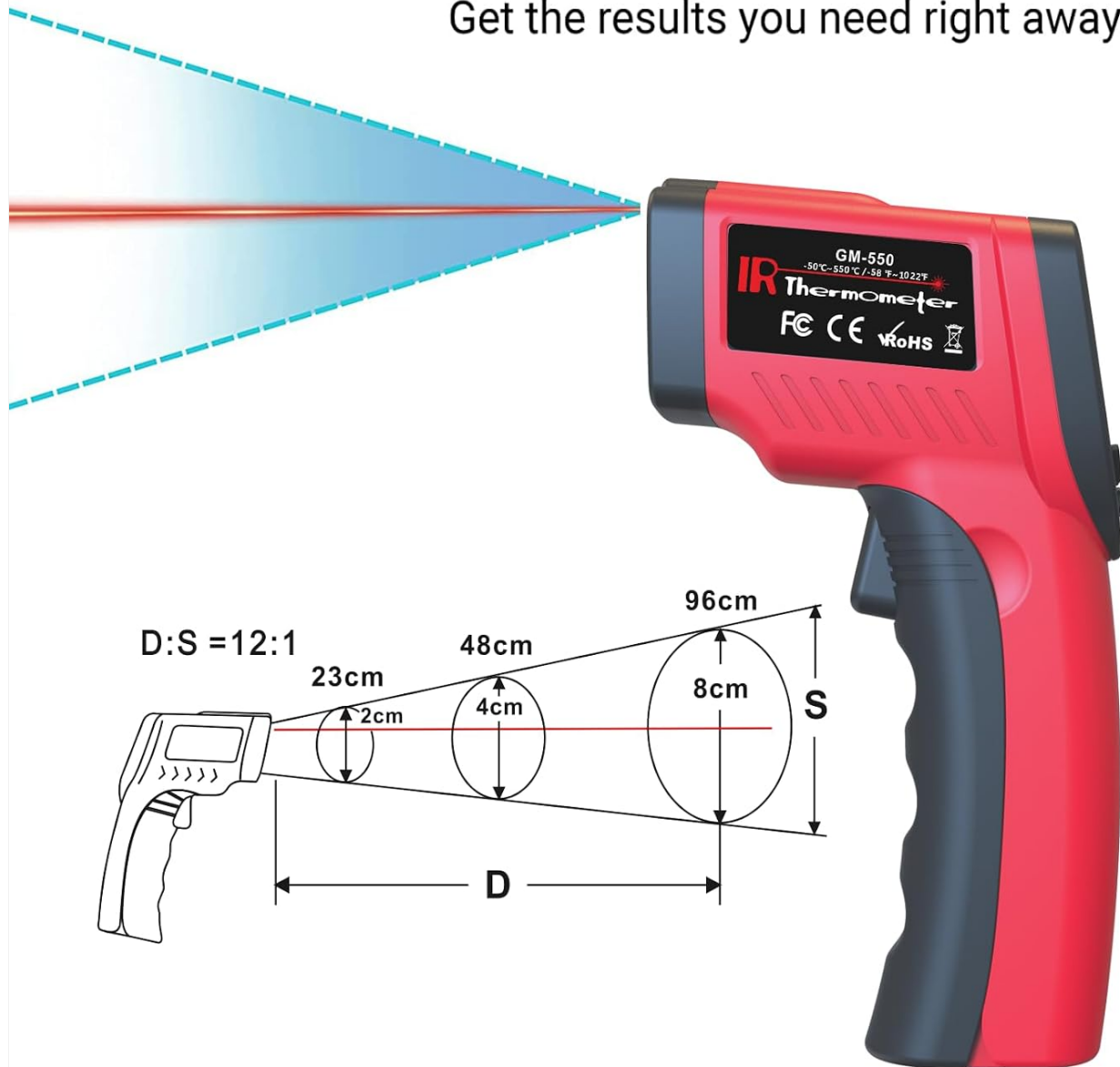


Image: A diagram explaining the 12:1 Distance-to-Spot (D:S) ratio, showing how the measurement area expands with distance from the thermometer.

Measurement method

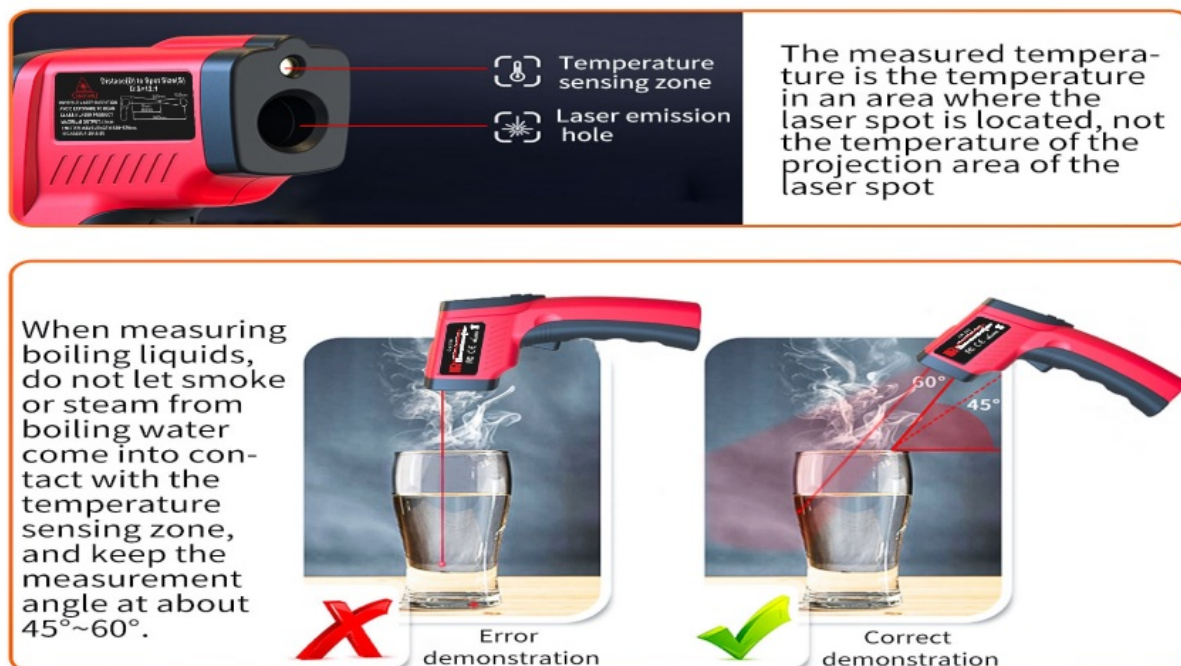


Image: A visual guide demonstrating the correct measurement method, emphasizing the importance of avoiding steam or smoke interference and maintaining an appropriate angle (45°-60°) when measuring boiling liquids.

Adjusting Emissivity:

The thermometer features adjustable emissivity from 0.1 to 1.0 (default 0.95). This allows for more accurate temperature readings on different surface types.

- Press the 'MODE' button to enter emissivity adjustment mode.
- Use the up/down arrow buttons to increase or decrease the emissivity value.
- Press 'MODE' again to save the setting and exit.

More Accuracy with Adjustable Emissivity

Adjustable emissivity from 0.1 to 1.0 (preset 0.95) , this calibratable function allows you to measure temperatures accurately on a variety of surfaces, including ice, oil, Aluminum, etc.



Image: Examples showing different emissivity values for common materials like oil (0.94), ice (0.98), and aluminum (0.3), highlighting the importance of adjusting emissivity for accurate readings.

Unit Conversion (°F/°C):

To switch between Fahrenheit and Celsius, press the °C/°F button located on the control panel.

Backlight Control:

Press the backlight button to turn the LCD screen backlight on or off, improving visibility in low-light conditions.

MAINTENANCE

Cleaning:

- Wipe the device clean with a soft, damp cloth.
- Do not use abrasive cleaners or solvents.
- Ensure the lens is clean and free of dust or debris for accurate readings.

Storage:

When not in use, store the thermometer in a dry, cool place, away from direct sunlight and extreme temperatures. Remove batteries if storing for extended periods to prevent leakage.

TROUBLESHOOTING

Common Issues and Solutions:

- **No Display/Device Not Turning On:**
 - Check if batteries are correctly installed with proper polarity.
 - Replace batteries with fresh ones if they are low or depleted.
- **Inaccurate Readings:**
 - Ensure the lens is clean and free from obstructions.
 - Verify the emissivity setting is appropriate for the material being measured.
 - Maintain the recommended distance-to-spot ratio (12:1) for optimal accuracy.
 - Avoid measuring through glass or other transparent surfaces, as this can affect accuracy.
- **Laser Not Visible:**
 - Ensure the laser button is pressed.
 - Check battery level.

SPECIFICATIONS

Feature	Specification
Temperature Range	-58°F to 1022°F (-50°C to 550°C)
Accuracy	± 2% or ± 2 °C
Emissivity	Adjustable from 0.1 to 1.0 (preset 0.95)
Distance Spot Ratio (D:S)	12:1
Response Time	0.8 seconds
Display Type	Digital, Backlit LCD

Feature	Specification
Auto-Off Function	10 seconds
Power Source	2 x AAA batteries (included)
Material	Plastic
Item Model Number	GM-550-Red-US
Package Dimensions	6.54 x 3.31 x 1.73 inches
Item Weight	5.29 ounces
Country of Origin	China

WARRANTY AND SUPPORT

Specific warranty details and direct support contact information are not available in the provided product data. For warranty claims, technical support, or further inquiries, please refer to the product packaging, the manufacturer's official website, or contact the seller directly through your purchase platform.

ASK A QUESTION ABOUT THIS MANUAL

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

Name

Anonymous

Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. [Privacy details](#).

Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question