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› Etekcity Infrared Thermometer Laser Temperature Gun 774 User Manual

Etekcity Lasergrip 774

Etekcity Infrared Thermometer Laser Temperature Gun 774

Model: Lasergrip 774

Brand: Etekcity



The Etekcity Lasergrip 774 Infrared Thermometer, shown with included AAA batteries.

INTRODUCTION

The Etekcity Lasergrip 774 is a non-contact infrared thermometer designed for safe and accurate temperature measurement of various surfaces. Its user-friendly design and quick response time make it ideal for a wide range of applications, from cooking and home maintenance to automotive and industrial uses.

Important Safety Note: This device is intended for use on inanimate objects only. Do not use to measure the temperature of humans or animals.

SETUP

Battery Installation

The Lasergrip 774 operates on two AAA batteries, which are included with the device. Follow these steps to install or

replace the batteries:

1. Locate the battery compartment on the handle of the thermometer.
2. Open the battery compartment cover.
3. Insert two AAA batteries, ensuring the correct polarity (+/-) as indicated inside the compartment.
4. Close the battery compartment cover securely.

Initial Power-On

Once batteries are installed, the device is ready for use. Simply pull the trigger to power on the thermometer and begin measuring.

OPERATING INSTRUCTIONS

Taking a Measurement

To measure the temperature of a surface:

1. Point the infrared thermometer at the target surface.
2. Pull and hold the trigger. The temperature reading will appear on the LCD display almost instantly (within 0.5 seconds).
3. Release the trigger to hold the last measured temperature on the display.



The Lasergrip 774 provides fast temperature readings, typically within 0.5 seconds.

Distance-to-Spot Ratio (D:S)

The Lasergrip 774 has a Distance-to-Spot Ratio (D:S) of 12:1. This means that at a distance of 12 inches, the measurement spot size will be 1 inch. For optimal accuracy, it is recommended to position the thermometer approximately 14.17 inches (36 cm) away from the target surface.

No-Contact Temperature Check for Safer Use

12:1 Distance-to-Spot Ratio—Measure Temperature Safely from a Distance.



Understanding the 12:1 Distance-to-Spot Ratio ensures accurate and safe measurements from a suitable distance.

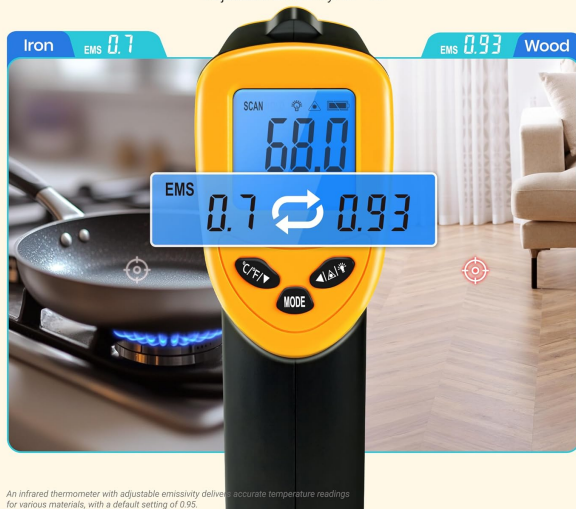
Emissivity Adjustment

Emissivity is the ability of a material to emit thermal energy. Different materials have different emissivity values. The Lasergrip 774 allows you to adjust the emissivity from 0.1 to 1.0 for more accurate readings on various surfaces. The default setting is 0.95, which is suitable for most organic materials and painted surfaces.

- Press the **MODE** button to cycle through settings until "EMS" appears.
- Use the **UP/DOWN** buttons (↑/↓) to adjust the emissivity value.

Accurate Temperature for Household Objects

Adjustable Emissivity: 0.1–1.0



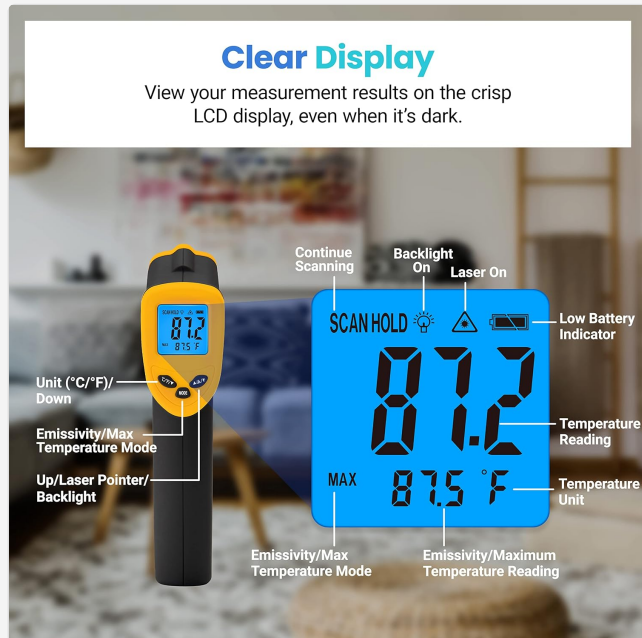
Adjusting emissivity improves measurement accuracy for different surface types.

Understanding the Display

The bright backlit LCD display provides clear readings even in low light conditions. Here's a breakdown of the display elements:

- **SCAN/HOLD:** Indicates if the device is actively scanning or holding a reading.

- **Temperature Reading:** The current measured temperature.
- **Temperature Unit:** Displays in Celsius (°C) or Fahrenheit (°F). Press the **°C/°F** button to switch units.
- **MAX/AVG Temperature Mode:** The device can display maximum or average temperatures during a scan. Press the **MODE** button to cycle through these options.
- **Low Battery Indicator:** Alerts you when batteries need replacement.
- **Backlight On/Off:** Indicates if the backlight is active.
- **Laser On/Off:** Indicates if the laser pointer is active.



The clear LCD display provides all necessary information for accurate temperature monitoring.

Measurement Tips for Accuracy

For the most accurate readings, consider the following:

- Avoid measuring through smoke, glass, or steam, as these can interfere with infrared readings.
- When measuring glass temperatures, place an opaque material (like tape) on the glass surface and measure the temperature of that material for more accurate results.
- Ensure the target area is larger than the thermometer's spot size at the chosen distance.



Follow these tips to ensure precise temperature measurements.

Common Applications

The Etekcity Lasergrip 774 is versatile and can be used for:

- **Cooking:** Measuring temperatures of meat, candy, oven surfaces, griddles, and frying oil.
- **Home Maintenance:** Checking AC vents, refrigerator temperatures, and insulation efficiency.
- **Automotive:** Monitoring engine temperatures.
- **Other:** Swimming pools, bath water, wine coolers, and more.



Versatile for cooking and home use.



Ideal for checking meat surface temperatures.

MAINTENANCE

Cleaning

To ensure the longevity and accuracy of your thermometer, keep it clean. Wipe the device with a soft, damp cloth. Do not use abrasive cleaners or immerse the device in water.

Storage

Store the thermometer in a cool, dry place away from direct sunlight and extreme temperatures. If storing for an extended period, it is recommended to remove the batteries to prevent leakage.

TROUBLESHOOTING

Problem	Possible Cause	Solution
No display/Device won't turn on	Batteries are dead or incorrectly installed.	Check battery polarity. Replace batteries if necessary.
Inaccurate readings	Incorrect emissivity setting; measuring through obstructions (smoke, glass); target too small or too far.	Adjust emissivity for the material. Ensure clear line of sight. Maintain recommended distance and target size.
Laser not visible	Laser function is off.	Check the display for the laser indicator. Refer to the display section for button functions.

If you encounter issues not listed here or if the problem persists, please contact Etekcity Customer Support.

SPECIFICATIONS

- Temperature Range:** -50°C to 450°C / -58°F to 842°F
- Distance Spot Ratio:** 12:1
- Recommended Distance:** Approx. 36 cm / 14 inch
- Emissivity:** 0.1-1.0 (Adjustable)
- Response Time:** 0.5 seconds
- Repeatability:** 1% / 1°C
- Units:** °C / °F
- Batteries:** 2 x AAA Batteries (Included)
- Product Dimensions:** 6.14 x 3.15 x 1.57 inches
- Measurement Increments:** ±2%
- Special Features:** Non-Contact, Backlit, Fast Reading System, Auto Off, High Accuracy
- Display Type:** Digital
- Connectivity Technology:** Infrared
- Item Weight:** 4 ounces

WARRANTY AND SUPPORT

Warranty Information

Etekcitey products are designed and manufactured to the highest standards. For detailed warranty information, please refer to the warranty card included with your product or visit the official Etekcitey website.

Customer Support

If you have any questions, concerns, or require assistance with your Etekcitey Lasergrit 774, please contact Etekcitey Customer Support. You can typically find contact information on the official Etekcitey website or within the product packaging.

For additional resources, you may also refer to the official User Manual PDF [Etekcitey Lasergrit 774 User Manual PDF](#)

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