LASERGRIP 774
Infrared Thermometer

User Manual

Questions or Concerns?
Please contact us Monday - Friday, 6:00 AM - 4:00 PM PST
at (855) 666-2605 or email support@etekcity.com

Thank you for purchasing the Lasergrip 774 Infrared Thermometer by Etekcity. This user guide shows you conveniently and accurately measure surface temperatures from a distance without the need of any direct contact. Should you have any questions or concerns, feel free to contact our helpful customer support team toll-free at 855 666-2605 or email support@etekcity.com.

WARNING: This device produces Class 3B Laser radiation. Use extreme caution at all times when laser is in use. Do not look into direct or reflected laser beam or view beam with optical instruments. Do not use laser beam at another person or animal. Laser radiation may damage your eye, Do not measure the device.

IMPORTANT: Read all of the instructions in this manual. Failure to comply with the instructions in this manual or use of the device in ways other than those mentioned in this manual, may result in hazardous radiation exposure.

Safety Use & Care
- Do not point the laser light at another person or animal.
- Do not attempt to point laser light at an aircraft.
- Avoid direct/obstructed eye contact with the laser beam. Laser radiation may cause eye damage.
- Do not view the beam with optical instruments.
- Be aware of possible hazards when using the device.
- Use a VAV battery when replacing the battery in the device
- Make sure the battery voltage in the device is appropriate.
- Always remove the batteries when cleaning the device.
- Do not use a battery that is worn out or is not in good condition.
- Remove battery for storage if the device is not being used for a prolonged period of time.
- Do not disassemble the device or tamper with internal components. Doing so will void any warranty.

Laser Activation
To activate and deactivate the laser, press the laser pointer ON/OFF button at any time while the Lasergrip is on.

Display Backlight Operation
To activate and deactivate the display backlight, press the display backlight ON/OFF button at any time while the Lasergrip is on.

Battery Replacement
A low battery icon will appear on the LCD display when the Lasergrip’s battery power is running low. Immediately replace the battery that has been released.

1. Open the battery compartment and remove the used battery.
2. Dispose of the used battery properly.
3. Connect a new DC 9V battery, making sure it is under the correct polarity.
4. Insert the battery into the compartment and close the compartment lid, making sure the wiring is not bent pinched by the compartment lid.

Distance Spot Ratio
The Lasergrip 774 measures surface temperature on the basis of distance to spot diameter ratio (D:S). As the distance between the thermometer and the surface increases, the total surface area measured will also increase. With a distance to spot ratio of 1:1, the surface area measured has a diameter of roughly 12 times the distance.

For the most accurate results, make sure the target has a surface area of twice the corresponding spot diameter. Insufficient surface area will result in inaccurate results. The recommended distance to hold the Lasergrip from the surface of measurement is 1477 cm (38 cm). This creates a spot measurement area of 126 cm (3 cm) in diameter.

1. Open the battery compartment and remove the used battery.
2. Dispose of the used battery properly.
3. Connect a new DC battery, making sure it is under the correct polarity.
4. Insert the battery into the compartment and close the compartment lid, making sure the wiring is not bent pinched by the compartment lid.

Emittance
The emissivity of a material is its efficiency in emitting thermal energy. Non-reflective surfaces have a higher emissivity (closer to 1) than reflective surfaces (closer to 0). Inaccurate results may occur when measuring reflective surfaces such as glass, polished metal, and graphite.

To take accurate temperature measurement of reflective surfaces with low emissivity, place a strip of masking tape over the surface and allow for it to adjust to the temperature of the surface for approximately 30 minutes. Measure the surface, scanning the taped section, eliminating the issue of inaccuracy.

Operation
Surface Temperature Measurement
NOTE: The Lasergrip cannot measure the temperature of objects behind glass. Emissivity may also occur when exposed to steam, dust, or any other contaminants in the air.

1. Once the battery is properly installed, press the measurement trigger to activate the device.
2. Point the Lasergrip towards the surface of measurement.
3. Press and hold the measurement trigger and the device will accumulate for amine guidance.
4. Keep holding the trigger as you move the Lasergrip and you will see the scan the surface area for temperature measurement.
5. Once the laser is pointed to the desired point of measurement, release the trigger and the LCD display will lock the calculated temperature.
6. Press the measurement trigger once again to make another measurement.

Package Contents
1 x Etekcity Lasergrip 774 Infrared Thermometer
1 x 9V DC Battery
1 x User Manual

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Visit www.etekcity.com for more products.