Dual Laser Infrared Thermometer
Model No.: Lasergrip 1030D
Thank You.

Thank you for purchasing the Lasergrip 1030D Infrared Thermometer by Etekcity. We are dedicated to providing our customers with quality products for building a better living. Should you have any questions or concerns about using your new product, feel free to reach out to our helpful customer support team at (855) 686-3835 or by email at support@etekcity.com. We hope you enjoy your new product!
Package Contents

1 x Lasergrind 1030D
1 x 9V DC Battery
1 x User Manual

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**CAUTION**

**WARNING:** This device produces CLASS 2 laser radiation. Use extreme caution at all times when laser is in use. Do not look into direct or reflected laser-light beam or view beam with optical instruments. Do not aim laser-light at another person or animal. Laser radiation may damage your eye. Do not disassemble the device.

**IMPORTANT:** Please read and comply with all of the instructions and warnings provided in this manual before using the product. Failure to comply with the instructions and warnings provided herein may result in inaccurate results and/or damage to the product itself.

- **DO NOT** point the laser-light at another person or animal.
- **DO NOT** attempt to point the laser-light at an aircraft.
- Avoid direct/indirect eye contact with the laser-beam. Laser radiation may cause eye damage.
- **DO NOT** view the beam with optical instruments.
- In the vicinity of use, make any bystanders aware of the dangers of looking directly into the laser beam.
- **DO NOT** allow children to operate the device.
- Use a 9V battery when replacing the battery within the device. Make sure to insert the battery in accordance with the correct polarities.
- **ALWAYS** remove the battery when cleaning the device.
- **DO NOT** use leaking batteries or dispose old batteries in fire.
- Remove the 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.
• **DO NOT** touch the lens or wipe it using anything other than a soft cloth or cotton swab.
• Keep the thermometer away from electromagnetic fields produced by objects such as arc welders and induction heaters.
• **DO NOT** expose the thermometer to direct sources of heat for extended periods of time.
• The thermometer measures surface temperature, not internal temperature. Do not use the Lasergrip as a reliable source to measure body temperatures.

The device certification information is labeled directly on the device. The sticker is located on the left side of the Lasergrip.

The device warning and aperture safety information are also labeled directly on the device; the sticker is located on the right side of the Lasergrip. Any updates to the product information (date of manufacturing and manufacturer address) will be added as adhesive overlays.
Main Functions

1. LCD display
2. Right button
3. SET °C/°F selection
4. Left button
5. Laser hole
6. IR sensor
7. Measurement trigger
Set-Up

1. Open the battery compartment and remove the battery notice strip.
2. Remove the battery from the compartment and unwrap it from its packaging.
3. Place the battery back into the compartment, connecting the battery under the correct polarity.
4. Re-seal the battery compartment, making sure the inside wiring does not get pinched by the compartment lid.

Operation

Surface Temperature Measurement

1. Point the Lasergrip towards the desired surface to be measured.
2. Press and hold the measurement trigger. The scan symbol will appear on display while you are taking your measurement.
3. Release the measurement trigger; the temperature reading will appear on the LCD display.
4. For continuous measurements, press and hold the measurement trigger while scanning the measured surface.
5. The Lasergrip will automatically turn off after 1 minute of inactivity.

NOTE

- The Lasergrip cannot measure the temperature of objects behind glass. Inaccuracy may also occur when exposed to steam, dust or any other contaminants in the air.
- The Lasergrip will display “OH” if the measured temperature exceeds the maximum temperature range and will display “OL” when the measured temperature is below the minimum temperature range.
Temperature Filtering

1. Press and hold the measurement trigger to take a temperature reading, don't release the trigger then press SET °C/°F.
2. The display will show the temperature next to “REF”, meaning the measured temperature is now the reference value. Release the measurement trigger once the reference temperature has been set.
3. Press ◀ and ▶ to move the on-screen arrow to the corresponding temperature range. The range can be adjusted to read temperature differences in increments of 0.5°C/1°F, 3.0°C/5°F, and 5.5°C/10°F.
4. Once the temperature range has been set, press and hold the measurement trigger to measure a surface. If the measured temperature is lower than the selected range, the screen will light up blue. If the measured temperature is higher than the selected range, the screen will light up red.
5. Move the arrow to “OFF” by using ◀ and ▶ to turn off the temperature filter function.

Emissivity

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 wood, and granite.

Most organic materials and painted or oxidized surfaces have an emissivity of 0.95. Other materials, such as polished metal surfaces, have a different emissivity level, which should be taken into account for accurate temperature measurement. One way to improve accuracy is to cover the surface with non-reflective masking tape or flat black paint, and then measure when the temperature reaches that of the underlying surface.
Distance-to-Spot Ratio

As the distance between the thermometers and the target increases, the surface area measured also increases. With a distance-spot ratio 12:1, the area measured also has a diameter of roughly 1/12 the distance. (i.e. When standing 12 feet away from the surface being measured, only a 1 foot diameter on that surface is measured.) For the most accurate results, make sure the target has a surface area of twice the corresponding spot size at the given distance.

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 when the icon appears.

1. Open the battery compartment and remove the used battery. Properly dispose the used battery.
2. Connect a new DC 9V battery, ensuring that it is under the correct polarity.
3. Insert the battery into the compartment and close the lid. Make sure that the wiring is not pinched while closing the lid.

Maintenance

General Maintenance

1. Use compressed air to remove any dust or particles on the Lasergrip lens.
2. Use a soft bristle brush to remove any debris from the lens, followed by a clean, wet cloth. Dry the lens with a soft, clean cloth immediately after.
3. Clean the included case with a damp sponge or cloth and mild detergent.

NOTE

• Do not use soap or detergent to clean the lens.
• Do not immerse the unit in water or liquid detergents.
## Specifications

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<tr>
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<th>Measurement Range</th>
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<tbody>
<tr>
<td><strong>Measurement Range</strong></td>
<td>-58°~1022°F (-50°~550°C)</td>
</tr>
<tr>
<td><strong>Accuracy</strong></td>
<td>≥100°C ±2% / ≤100°C ±2°C</td>
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<tr>
<td><strong>Response Time</strong></td>
<td>≤ 0.8 seconds</td>
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<tr>
<td><strong>Emissivity</strong></td>
<td>0.95</td>
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<tr>
<td><strong>Distance-to-Spot Ratio</strong></td>
<td>12:1</td>
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<td><strong>Storage Temperature</strong></td>
<td>-4°~122°F (-20°~50°C)</td>
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<tr>
<td><strong>Operating Temperature</strong></td>
<td>32°~122°F (0°~50°C)</td>
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Warranty

Terms & Policy

Etekcity warrants all products to be of the highest quality in material, craftsmanship and service for a minimum of 1 year, effective from the date of purchase. Warranty lengths may vary between product categories. Etekcity will replace any product found to be defective due to manufacturer flaws based on eligibility; refunds are available within the first 30 days of purchase. This warranty extends only to personal use and does not extend to any product that has been used for commercial, rental, or any other use in which the product is not intended for. There are no warranties other than the warranties expressly set forth with each product.

This warranty is non-transferrable. Etekcity is not responsible in any way for any damages, losses or inconveniences caused by equipment failure or by user negligence, abuse, or use noncompliant with the user manual or any additional safety, use, or warnings included in the product packaging and manual.

This warranty does not apply to the following:
• Damage due to abuse, accident, alteration, misuse, tampering or vandalism.
• Improper or inadequate maintenance.
• Damage in return transit.
• Unsupervised use by children under 18 years of age.

Etekcity and its subsidiaries assume no liability for damage caused by the use of the product other than for its intended use or as instructed in the user manual. Some states do not allow this exclusion or limitation of incidental or consequential losses so the foregoing disclaimer may not apply to you. This warranty gives you specific legal rights and you may also have other rights which may vary from state to state.

ALL EXPRESSED AND IMPLIED WARRANTIES, INCLUDING THE WARRANTY OF MERCHANTABILITY, ARE LIMITED TO THE PERIOD OF THE LIMITED WARRANTY.

Should your product prove defective within the specified warranty period, please return the defective unit in its original packaging with (1) an original copy of the invoice, (2) your order confirmation number, (3) and your warranty ID number.

To find out more about extending your warranty, visit www.etekcity.com/warranty or contact customer support.

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<td>Place of Purchase</td>
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Customer Support

Should you encounter any issues or have any questions regarding your new product, feel free to contact our helpful Customer Support Team. Your satisfaction is our goal!

Customer Support
Etekcity Corporation
1202 N. Miller St. Suite A
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Local: (657)500-1872
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Fax: (657)202-1693
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Support Hours
Monday - Friday:
9:00 am - 5:00 pm PST

*Please have your order confirmation number ready before contacting customer support.
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