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› BSIDE Infrared Thermometer Non-Contact Digital Laser Temperature Gun Adjustable Emissivity -58°F-1022°F (-50°C-550°C) for Cooking Grill Food Kitchen Automotive and Industrial H1

BSIDE H1

BSIDE H1 Infrared Thermometer User Manual

Model: H1 | Brand: BSIDE

1. INTRODUCTION

The BSIDE H1 Infrared Thermometer is a non-contact digital laser temperature gun designed for accurate surface temperature measurement. Its versatile design makes it suitable for a wide range of applications including cooking, BBQ, automotive maintenance, home repairs, and industrial uses. This manual provides essential information for the safe and effective operation of your device.



Figure 1.1: The BSIDE H1 Infrared Thermometer, shown with two AAA batteries, ready for use.

2. SAFETY INFORMATION

Please read all safety warnings carefully before using this product. Failure to follow these instructions may result in injury or damage to the device.

- **NOT for Human Use:** This device is designed for measuring the temperature of inanimate objects only. Temperature readings for humans or animals will not be accurate.
- **Laser Safety:** The thermometer uses a Class 2 laser. Do not stare directly into the laser beam or direct it at other people's eyes. Avoid prolonged exposure.
- **Handling:** Handle the device with care. Avoid dropping or subjecting it to strong impacts.
- **Environment:** Do not expose the device to extreme temperatures, humidity, or corrosive environments.
- **Cleaning:** Use a soft, dry cloth for cleaning. Do not use abrasive cleaners or solvents.



Hazard Free

non-contact infrared design thermometer, much more safety

Figure 2.1: The non-contact design of the thermometer ensures safety when measuring hot surfaces like a grill.

3. PRODUCT OVERVIEW

The BSIDE H1 Infrared Thermometer features a user-friendly design with a clear digital display and intuitive controls.

3.1 Components

- Infrared Sensor
- Laser Pointer
- LCD Display
- Measurement Trigger
- Mode Button
- Up/Down Buttons (for emissivity adjustment)

- Battery Compartment



Figure 3.1: The product packaging highlights key features and components of the thermometer.

4. SETUP

4.1 Battery Installation

The BSIDE H1 thermometer requires two (2) AAA batteries for operation. Batteries are included with the product.

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

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Video 4.1: This video demonstrates the battery installation process for the BSIDE H1 Infrared Thermometer, showing how to open the compartment and insert the two AAA batteries correctly.

5. OPERATING INSTRUCTIONS

5.1 Taking a Measurement

1. Point the thermometer at the target surface.
2. Press and hold the measurement trigger. The laser sight will activate to assist with accurate targeting.
3. The temperature reading will appear on the LCD display. Release the trigger to hold the temperature data.

The distance to spot ratio (D:S) for this device is 12:1. This means that at a distance of 12 units from the target, the measurement spot diameter will be 1 unit. For example, at 48 cm distance, the testing spot diameter is 4 cm. This ratio allows for accurate measurement of targets at greater distances.



Figure 5.1: Understanding the 12:1 Distance to Spot ratio is crucial for accurate temperature readings, indicating the measurement area relative to distance.

5.2 Switching Temperature Units (°C/°F)

To switch between Celsius (°C) and Fahrenheit (°F), press the unit selection button (often labeled with °C/°F or found within the 'Mode' options).

5.3 Adjustable Emissivity

Emissivity is a measure of an object's ability to emit infrared energy. Different materials have different emissivity values. The BSIDE H1 allows you to adjust the emissivity setting to improve measurement accuracy for various surfaces.

- Press the 'Mode' button until the emissivity setting is displayed.
- Use the Up/Down buttons to adjust the emissivity value (typically from 0.1 to 0.99).
- Refer to common emissivity tables for typical values of materials you intend to measure.



Adjustable Emissivity

adjustable emissivity design
makes the test result more accurate.

You can adjust the thermometer
emissivity to meet different product emissivity

Figure 5.2: The adjustable emissivity feature allows for more accurate temperature measurements across various materials, such as ice, oil, and stainless steel, by compensating for their unique infrared emission properties.



Automotive Maintenance

easily measure the temperature of car engines, and more

Figure 5.3: The thermometer is ideal for automotive maintenance, allowing easy and safe measurement of engine parts and other components.

6. MAINTENANCE

- **Cleaning:** Wipe the device with a soft, damp cloth. Do not immerse in water.
- **Storage:** Store the thermometer in a cool, dry place away from direct sunlight and extreme temperatures.
- **Battery Replacement:** Replace batteries when the low battery indicator appears on the display. Remove batteries if the device will not be used for an extended period to prevent leakage.

7. TROUBLESHOOTING

Problem	Possible Cause	Solution
Device does not power on.	Low or dead batteries; incorrect battery installation.	Replace batteries; ensure correct polarity.
Inaccurate temperature readings.	Incorrect emissivity setting; distance to target too far or too close; dirty sensor lens.	Adjust emissivity for the material; ensure proper D:S ratio; clean the sensor lens gently.
Laser not visible.	Laser feature turned off; bright ambient light.	Check device settings to ensure laser is enabled; use in less bright conditions if possible.

8. SPECIFICATIONS

- **Measurement Range:** -58°F to 1022°F (-50°C to 550°C)
- **Accuracy:** $\pm 2\%$ or $\pm 2^{\circ}\text{C}$
- **Resolution:** 0.1°C or 0.1°F
- **Response Time:** 800ms
- **Distance to Spot Ratio (D:S):** 12:1
- **Emissivity:** Adjustable
- **Power:** 2 x 1.5V AAA Batteries (included)
- **Dimensions:** 6.3 x 3.15 x 1.38 inches (16.0 x 8.0 x 3.5 cm)
- **Weight:** 2.57 ounces (67g)
- **Special Feature:** Non-Contact
- **Display Type:** Digital
- **Connectivity Technology:** Infrared



Figure 8.1: The thermometer's display clearly shows its wide temperature measurement range in both Celsius and Fahrenheit.

9. WARRANTY AND SUPPORT

For warranty information and technical support, please refer to the contact details provided with your purchase or visit the official BSIDE website. Keep your purchase receipt as proof of purchase for warranty claims.