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> Nubee NUB8380 Non-contact Digital Laser Infrared IR Thermometer User Manual

Nubee NUB8380

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Model: NUB8380

1. INTRODUCTION

This manual provides detailed instructions for the safe and effective use of your Nubee NUB8380 Non-contact Digital Laser Infrared IR Thermometer. This device is designed for accurate surface temperature measurements without physical contact. Please read this manual thoroughly before operation and retain it for future reference.





Image 1: Nubee NUB8380 Infrared Thermometer, main view.

2. SAFETY INFORMATION

To ensure safe operation, always follow these basic safety precautions:

- **Do not point the laser directly at eyes or indirectly off reflective surfaces.** The laser output is less than 1mW, Class II.
- Do not use the thermometer in environments with explosive gas, steam, or dust.
- Avoid exposing the device to electromagnetic fields from arc welders, induction heaters, etc.
- Do not leave the thermometer on or near objects of high temperature.
- Keep the device away from water and high humidity.
- This device is not intended for medical use or measuring human body temperature.

3. PACKAGE CONTENTS

Verify that all items are present upon opening the package:

- 1 x Nubee NUB8380 Non-contact Infrared Thermometer
- 1 x 9V DC Battery
- 1 x User's Manual (this document)



Image 2: Nubee NUB8380 Infrared Thermometer in its blister packaging, including the 9V battery.

4. PRODUCT FEATURES AND COMPONENTS

The Nubee NUB8380 thermometer offers several features for convenient and accurate temperature measurement:

- Non-contact infrared measurement
- Red laser pointer for precise aiming
- Switchable Celsius (°C) or Fahrenheit (°F) units
- Backlight display for low-light conditions
- Automatic data hold
- Auto power shut-off to conserve battery life
- Low battery indicator



Image 3: Diagram illustrating the main components of the thermometer (Infrared Sensor, Infrared Lens, Measure Button, Battery Cover, LCD, Set buttons, Function button) and the LCD display elements (Data hold, Laser signal, Battery low power indication, °C/°F, Current temperature reading).

5. SETUP: BATTERY INSTALLATION

The thermometer requires one 9V battery (included). Follow these steps to install the battery:

1. Locate the battery compartment cover on the handle of the thermometer.
2. Gently slide or open the cover to access the compartment.
3. Connect the 9V battery to the battery clip, ensuring correct polarity.

4. Place the battery inside the compartment and close the cover securely.

The device is now ready for use.

6. OPERATING INSTRUCTIONS

6.1. Taking a Temperature Measurement

1. Point the thermometer at the target surface.
2. Press and hold the measurement trigger (located on the handle). The laser pointer will activate (if enabled) to indicate the measurement area.
3. The temperature reading will appear on the LCD display.
4. Release the trigger to hold the reading on the display. The device will automatically shut off after approximately 10-15 seconds of inactivity to save battery.



Image 4: A hand holding the Nubee NUB8380 thermometer, with the digital display showing a temperature reading.

6.2. Switching Temperature Units (°C/°F)

To switch between Celsius and Fahrenheit, locate the °C/°F button on the control panel below the display and press it. The display will update to the selected unit.

6.3. Laser Pointer Control

The laser pointer can be turned on or off. Locate the laser button (often labeled with a laser icon) on the control panel and press it to toggle the laser function.

6.4. Backlight Control

To activate or deactivate the display backlight, locate the backlight button (often labeled with a light bulb icon) on the control panel and press it.

6.5. Application Examples

The thermometer can be used for various applications, including checking appliance temperatures, automotive

components, and environmental surfaces.



Image 5: Examples of using the thermometer to measure the temperature of a fireplace and a dog house.



Image 6: Examples of using the thermometer to measure the temperature of an electrical panel and a car engine.

7. MAINTENANCE

To ensure the longevity and accuracy of your thermometer:

- **Cleaning:** Wipe the device clean with a soft, damp cloth. Do not use abrasive cleaners or immerse the device in water.
- **Lens Care:** The infrared lens is the most delicate part of the thermometer. Clean it carefully with a soft cloth or cotton swab moistened with water or medical alcohol.
- **Storage:** Store the thermometer in a dry, dust-free environment when not in use. Remove the battery if storing for extended periods to prevent leakage.

8. TROUBLESHOOTING

If you encounter issues with your thermometer, refer to the following table:

Problem	Possible Cause	Solution
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Problem	Possible Cause	Solution
No display/Device won't turn on	Low or dead battery; incorrect battery installation	Replace the 9V battery; ensure correct polarity during installation.
Inaccurate readings	Dirty infrared lens; distance to target too far; highly reflective surface; emissivity setting (if adjustable, though this model has fixed 0.95)	Clean the lens; ensure proper distance (12:1 distance-to-spot ratio); apply masking tape to reflective surfaces for measurement.
Laser not working	Laser function is turned off	Press the laser button to activate it.

9. SPECIFICATIONS

- **Temperature Range:** -50°C to 380°C (-58°F to 716°F)
- **Accuracy:** $\pm 2^{\circ}\text{C}$ or $\pm 2\%$ (whichever is greater)
- **Distance Spot Ratio:** 12:1
- **Emissivity:** 0.95 (Fixed)
- **Response Time:** 500ms
- **Resolution:** 0.1°C or 0.1°F
- **Wavelength:** (8-14) μm
- **Power:** 1 x 9V Battery (included)
- **Auto Power Shut-off:** Yes
- **Automatic Data Hold:** Yes
- **Low Battery Indication:** Yes
- **Product Dimensions:** 6 x 3 x 1 inches (15.24 x 7.62 x 2.54 cm)
- **Weight:** 4.94 ounces (140g)
- **Certifications:** CE, FCC, RoHS

10. WARRANTY AND SUPPORT

Nubee products are manufactured to high-quality standards. For warranty information or technical support, please refer to the contact details provided with your purchase documentation or visit the official Nubee website. Please have your model number (NUB8380) and purchase date available when contacting support.

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