

## Helect H-1020-

# Helect Infrared Thermometer User Manual

Brand: Helect | Model: H-1020-

## INTRODUCTION

This manual provides essential information for the safe and effective operation of your Helect Infrared Thermometer. This non-contact digital laser temperature gun is designed for daily and industrial temperature measurement, including cooking, refrigeration, and various material temperature checks. It is important to note that this device is **NOT intended for human temperature measurement**.

Key features include switchable Celsius/Fahrenheit units, automatic data hold, a backlit LCD, low battery indicator, and auto power-off. Its portable and anti-slip design makes it suitable for both outdoor and indoor use.

## WHAT'S INCLUDED

- Helect Infrared Thermometer
- 9V Battery (included)

## SETUP

### Battery Installation

To install the 9V battery, locate the battery compartment on the handle of the thermometer. Gently press the release button or slide the cover to open the compartment. Insert the 9V battery, ensuring correct polarity. Close the battery compartment securely until it clicks into place.



# Hazard Free

## Preparing Foods



Image: The thermometer with its battery compartment open, illustrating the insertion of a 9V battery.

### Initial Power-On

Once the battery is installed, the device is ready for use. Simply pull the measurement trigger to power on the thermometer and begin taking readings.

### OPERATING INSTRUCTIONS

#### Taking a Measurement

Point the infrared thermometer at the object you wish to measure. Ensure the object's diameter is larger than the laser spot size for accurate readings. Pull and hold the measurement trigger to get live, dynamic temperature readings. Release the trigger to hold the current reading on the display for easy recording.

## Easy Operation



Hold trigger for live, dynamic readings

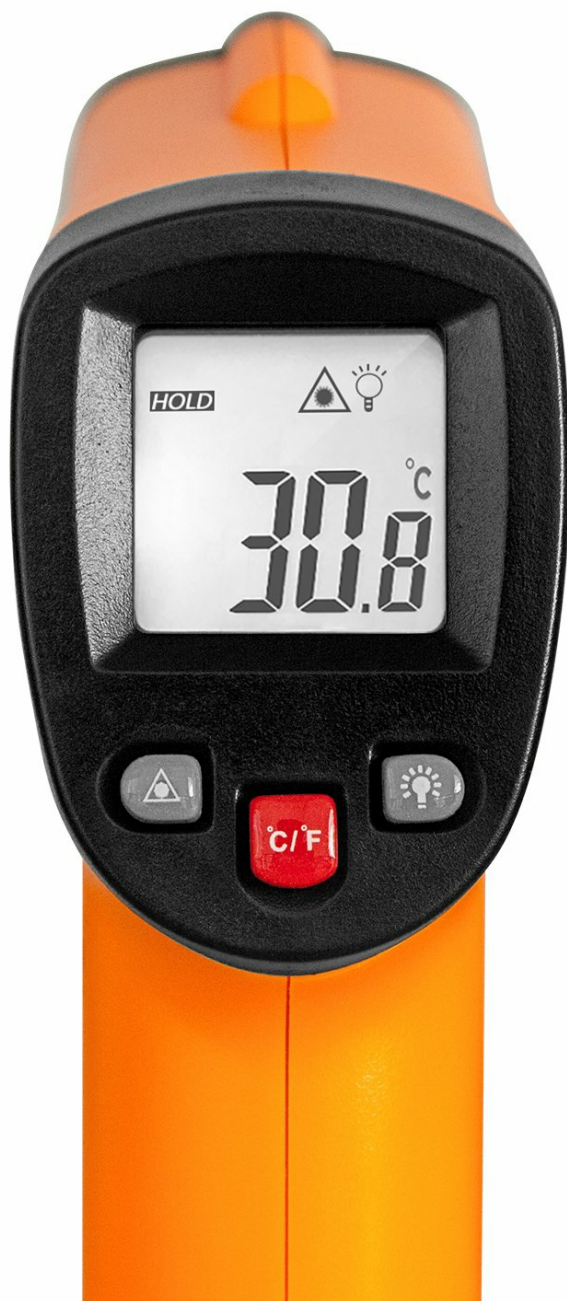
Release the trigger to lock results for easy recording.



Image: Demonstrates how to hold the thermometer and use the trigger for measurements.

### Unit Conversion (°C/°F)

The thermometer allows you to switch between Celsius (°C) and Fahrenheit (°F) units. Refer to the device's buttons for the specific conversion button, typically marked with "°C/°F".



## Handy Versatiliy

-  BackLight Clear Display
-  °C/°F Unit Conversion
-  Laser Guidance

Image: A close-up view of the thermometer's display and control buttons, highlighting the unit conversion feature.

### Laser Aiming and Distance Spot Ratio

The built-in red laser assists in precisely aiming at the target. The Distance Spot Ratio (D:S) for this model is 12:1, meaning that at a distance of 12 units, the measurement spot will be 1 unit in diameter. This ratio is ideal for measuring targets from a longer distance.



# Non-contact (Infrared) Temperature measurement



- Accuracy:  
 $\pm 2\%$  or  $2^{\circ}\text{C}/4^{\circ}\text{F}$
- Measuring Range:  
 $-58^{\circ}\text{F} \sim 1022^{\circ}\text{F}$   
 $-50^{\circ}\text{C} \sim 550^{\circ}\text{C}$

Image: Illustrates the non-contact temperature measurement capability and the laser aiming feature.

## Typical Applications

This thermometer is versatile and can be used for a variety of applications, including:

- Cooking and food preparation
- Refrigeration and freezer temperature checks
- Industrial temperature measurement (e.g., steel, glass, plastics)
- Automotive diagnostics (e.g., engine temperature)
- Home energy audits (e.g., checking insulation, HVAC vents)
- Pool and spa temperature monitoring



Image: A visual representation of diverse applications for the infrared thermometer.

## MAINTENANCE

### Cleaning

To clean the thermometer, simply wipe it with a clean, dry cloth. Do not use abrasive cleaners or immerse the device in water.

### Battery Replacement

When the low battery indicator appears on the LCD, replace the 9V battery as described in the "Battery Installation" section.

## TROUBLESHOOTING

### Inaccurate Readings

- Ensure the target object's diameter is larger than the laser spot size.
- Verify the distance to the object is within the effective range for the 12:1 D:S ratio.
- Check for obstructions between the thermometer and the target.
- Ensure the lens is clean and free from dust or debris.

Device Not Powering On

- Check if the 9V battery is correctly installed with proper polarity.
- Replace the 9V battery with a new one if the low battery indicator was previously shown or if the battery is old.

SPECIFICATIONS

|                           |                                  |
|---------------------------|----------------------------------|
| Measurement Range         | -50°C to 550°C / -58°F to 1022°F |
| Distance Spot Ratio (D:S) | 12:1                             |
| Power Source              | 1 x 9V Battery (included)        |
| Display Type              | Digital LCD with Backlight       |
| Special Feature           | Non-Contact, Laser Aiming        |
| Product Dimensions        | 3.7 x 1.61 x 1.89 inches         |
| Item Weight               | 8.11 ounces                      |
| Model Number              | H-1020-                          |
| Manufacturer              | Helect                           |

WARRANTY AND SUPPORT

For warranty information or technical support, please refer to the contact details provided with your product packaging or visit the official Helect website. Keep your purchase receipt for warranty claims.

ASK A QUESTION ABOUT THIS MANUAL

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page’s manual context to help answer it.

Name

Anonymous

Email

you@example.com

conversion attribution. [Privacy details](#).

**Question**

Example: How do I reset this device or fix this error?

**Details**

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question