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> Infrared Thermometer Digital Temperature Gun Laser Meat Thermometer for Cooking, Food, Pizza Ovens, Grilling, Engine, Candy, Laser Griddle, Indoor HVAC Refrigerator Tool -58°F to 1112°F (-50°C~600°C)

## SOVARCATE HS560D

# SOVARCATE Infrared Thermometer User Manual

MODEL: HS560D

Your reliable tool for accurate temperature measurement.

## 1. Introduction

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Thank you for choosing the SOVARCATE Infrared Thermometer. This non-contact digital temperature gun is designed for instant and accurate surface temperature measurements across a wide range of applications, from cooking and HVAC to industrial and household use. Its advanced features ensure safety and precision, making it an essential tool for various tasks.

## 2. Safety Information

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- **Laser Safety:** This device emits a Class 2 laser. Do not stare directly into the laser beam or point it at people's eyes. Avoid direct eye exposure.
- **Non-Contact Measurement:** The thermometer measures surface temperature. It is not intended for measuring human body temperature.
- **Battery Handling:** Use only the specified AAA batteries. Ensure correct polarity when installing. Remove batteries if the device will not be used for an extended period to prevent leakage.
- **Operating Environment:** Do not expose the device to extreme temperatures, humidity, or direct sunlight. Keep it away from strong electromagnetic fields.
- **Cleaning:** Clean the lens and casing with a soft, damp cloth. Do not use abrasive cleaners or solvents.

### 3. Product Overview

The SOVARGATE Infrared Thermometer (Model HS560D) is designed for ease of use and durability. Key components include the trigger, LCD display, laser aperture, and function buttons.



Figure 3.1: SOVARGATE Infrared Thermometer HS560D. This image shows the overall design of the thermometer, highlighting its ergonomic grip and clear display.

# Durable & Reliable



- 1 Data hold
- 2 Battery power indication
- 3 Backlight On/OFF
- 4 Temperature unit
- 5 Temperature reading
- 6 Laser Pointer On/OFF

Figure 3.2: Detailed view of the thermometer's display and controls. This image labels key indicators such as data hold, battery power, backlight, temperature unit, temperature reading, and laser pointer status.

## Features:

- Instant & Accurate Temperature Measurement: -58°F to 1112°F (-50°C~600°C) within 0.5 seconds.
- Built-in Laser: Provides precise targeting with a 12:1 distance-to-spot ratio and +/-1% accuracy.
- Versatile LCD Display: Features SCAN icon for real-time readings and HOLD icon to lock readings.
- Safe Non-Contact Measurement: Ideal for hazardous or hard-to-reach areas.
- Durable Construction: Built with quality materials for long-term reliability.
- Automatic Power Off: Conserves battery life.
- Low Battery Indicator: Alerts when batteries need replacement.

## 4. Setup

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## 4.1 Battery Installation

The SOVARCATE Infrared Thermometer requires 2 AAA batteries (included). To install or replace batteries:

1. Locate the battery compartment cover on the handle.
2. Slide the cover open.
3. Insert 2 AAA batteries, ensuring correct polarity (+/-).
4. Close the battery compartment cover securely.

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Video 4.1: How to Use the SOVARCATE Infrared Thermometer. This video demonstrates the battery installation process and basic operation of the thermometer, including switching units and using the laser.

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## 5. Operating Instructions

### 5.1 Taking a Measurement

To measure the surface temperature of an object:

1. Point the thermometer at the target object.
2. Press and hold the trigger. The display will show "SCAN" and provide real-time temperature readings.
3. Release the trigger to hold the reading. The display will show "HOLD".



# Built-in Laser For

Enhanced Accuracy



Figure 5.1: Using the built-in laser for precise temperature measurement on food. The laser helps target the exact spot for accurate readings.

## 5.2 Unit Conversion (Celsius/Fahrenheit)

To switch between Celsius (°C) and Fahrenheit (°F), press the "C/F" button located below the display.

## 5.3 Laser Pointer and Backlight Control

- **Laser Pointer:** Press the button with the laser icon (▲) to turn the laser pointer on or off. The laser assists in targeting the measurement area.
- **Backlight:** Press the button with the light bulb icon (💡) to turn the display backlight on or off. This feature is useful in low-light conditions.

# Versatile Display Resolution

## Clear Results

Backlit LCD screen, so you can easily read temperatures in the dark.



Figure 5.2: The clear LCD display showing temperature readings and icons for various functions like SCAN and HOLD.

## 5.4 Applications

The SOVARCATE Infrared Thermometer is versatile and can be used for a variety of applications:

- **Cooking & Grilling:** Measure the surface temperature of pans, griddles, pizza ovens, and BBQ grills.
- **HVAC:** Check temperatures of vents, ducts, and heating/cooling systems.
- **Refrigeration:** Verify the temperature inside refrigerators and freezers.
- **Automotive:** Monitor engine components, tires, and other vehicle parts.
- **Home Projects:** Ideal for various DIY tasks requiring temperature checks.





Figure 5.3: Examples of the thermometer's diverse applications, including home projects, cooking, pool temperature checks, and electrical inspections.

## 6. Maintenance

### 6.1 Cleaning

To ensure accurate readings and prolong the life of your thermometer:

- Wipe the casing with a soft, damp cloth.
- For the lens, use a soft, lint-free cloth or a cotton swab with a small amount of rubbing alcohol. Avoid touching the lens directly.
- Do not immerse the device in water or use harsh chemicals.

### 6.2 Storage

Store the thermometer in a cool, dry place, away from direct sunlight and extreme temperatures. If storing for an extended

period, remove the batteries.

## 7. Troubleshooting

Problem	Possible Cause	Solution
No display or weak display	Low or dead batteries; incorrect battery installation.	Replace batteries with new AAA batteries, ensuring correct polarity.
Inaccurate readings	Lens is dirty; distance to target is too far; emissivity setting (not adjustable on this model, but a common IR thermometer issue); object is too small.	Clean the lens; move closer to the target (within 12:1 D:S ratio); ensure the target is larger than the measurement spot.
Laser not working	Laser is turned off; low battery.	Press the laser button to turn it on; replace batteries.

## 8. Specifications

**Model:** HS560D

**Temperature Range:** -58°F to 1112°F (-50°C to 600°C)

**Accuracy:** ±1% or ±1.5°C (±2.7°F) whichever is greater

**Distance Spot Ratio:** 12:1

**Response Time:** 0.5 seconds

**Power Source:** 2 x AAA Batteries (included)

**Product Dimensions:** 6.1 x 3.7 x 1.85 inches

**Item Weight:** 5.64 ounces

**Display Type:** Digital LCD with Backlight

**Special Feature:** Non-Contact, Laser Pointer

**Material:** Plastic

**Color:** Black & Yellow

## 9. Warranty and Support

For any questions, technical support, or warranty inquiries regarding your SOVARCATE Infrared Thermometer, please contact SOVARCATE customer service through the retailer's platform or visit the official SOVARCATE store page on Amazon for more information.

**SOVARCATE Store:** [Visit the SOVARCATE Store on Amazon](#)



