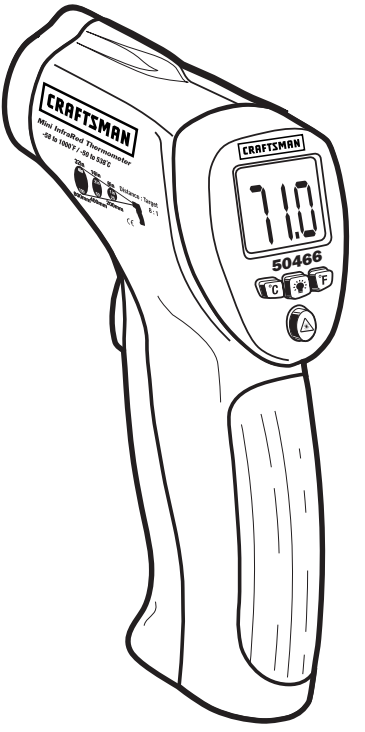
Owner's Manual

CRAFTSMAN

Non-Contact High Temperature InfraRed Thermometer

MODEL 50466



CAUTION: Read, understand and follow Safety Rules and Operating Instructions in this manual before using this product.

- Safety
- Operation
- Maintenance
- Español

www.craftsman.com **022205**

ONE YEAR FULL WARRANTY

ONE YEAR FULL WARRANTY ON CRAFTSMAN Non-Contact High Temperature InfraRed Thermometer

If this CRAFTSMAN Non-Contact High Temperature InfraRed Thermometer fails to give complete satisfaction within one year from the date of purchase, RETURN IT TO THE NEAREST SEARS STORE OR OTHER CRAFTSMAN OUTLET IN THE UNITED STATES, and Sears will replace it, free of charge.

If this CRAFTSMAN Non-Contact High Temperature InfraRed Thermometer is used for commercial or rental purposes, this warranty applies for 90 days from the date of purchase.

This warranty gives you specific legal rights, and you may also have other rights which vary from state to state

Sears, Roebuck and Co., Dept. 817WA, Hoffman Estates, IL 60179

For Customer Assistance Call 9am-5 PM (EST)
Monday through Friday 1-888-326-1006

SAFETY INSTRUCTIONS

- **USE EXTREME CAUTION** when the laser pointer beam is on
- **DO NOT** point the beam toward anyone's eye or allow the beam to strike the eye from a reflective surface
- **DO NOT** use the laser near explosive gases or in other potentially explosive areas

SPECIFICATIONS

Infrared Thermometer Specifications

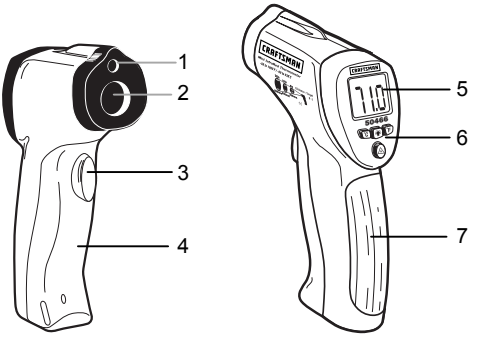
Range / Resolution	-58 to 1000°F (-50 to 538°C) / 0.1°C/F to 200°
Accuracy	± 2% of reading or ± 4°F (2°C) whichever is greater. Note: Accuracy is specified for the ambient temperature range: 64 to 82°F (18 to 28°C). Add ±0.2ºF/ºF (±0.2ºC/ºC) outside this range.
Emissivity	0.95 fixed value
Field of View	D/S = Approx. 8:1 ratio (D = distance, S = spot)
Laser power	Less than 1mW
Spectral response	6 to 14 μm (wavelength)

General Specifications

Display	Backlit LCD display with function indicators
Display rate	1 second (approx.)
Operating Temperature	32°F to 122°F (0°C to 50°C)
Operating Humidity	Max. 80% RH
Power Supply	9V battery
Automatic Power Off	Meter shuts off automatically after 6 seconds
Weight	6.35 oz. / 180g
Size	3.2 x 1.6 x 6.3” (82 x 42 x 160mm)

CONTROLS

1. Laser Pointer
2. InfraRed Sensor
3. Measure Trigger
4. Battery compartment
5. LCD display
6. Function buttons
7. Handle Grip



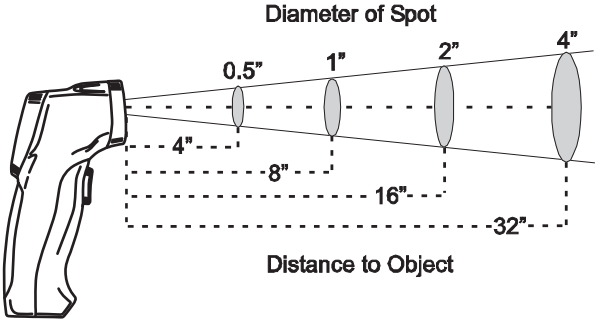
OPERATING INSTRUCTIONS

1. Hold the meter by its Handle Grip and point it toward the surface to be measured.
2. Pull and hold the red Trigger to turn the meter on and begin testing. The temperature reading, the 'SCAN' icon, the emissivity icon (E=0.95), and the unit of measure will appear. Note: Replace the battery if the display does not light.
3. While continuing to pull the Trigger:
   a. Push the laser button to turn on the laser pointer. When the laser is ON the laser icon will appear on the LCD over the temperature reading. Aim the red beam approximately a half inch above the point of test (pressing the laser button again turns the laser off).
   b. Select the temperature units using the **°C** or **°F** button.
   c. Push the backlight button to turn on the LCD backlighting function.
4. Release the Trigger and the reading will hold for approximately 6 seconds (HOLD will appear on the LCD) and then the meter will automatically shut off.

FIELD OF VIEW

The meter's field of view is 8:1. For example, if the meter is 16 inches from the target (spot), the diameter of the target must be at least 2 inches. Other distance ratios are shown below in the field of view diagram.

Note that measurements should normally be made less than 2 feet from the target. The meter can measure from further distances but the measurement may be affected by external sources of light. In addition, the spot size may be so large that it encompasses surface areas not intended to be measured.



MEASUREMENT NOTES

1. The object under test should be larger than the spot (target) size calculated by the field of view diagram.
2. If the surface of the object under test is covered with frost, oil, grime, etc., clean before taking measurements.
3. If an object's surface is highly reflective, apply masking tape or flat black paint to the surface before measuring.
4. The meter may not make accurate measurements through transparent surfaces such as glass.
5. Steam, dust, smoke, etc. can obscure measurements.
6. The meter compensates for deviations in ambient temperature. It can, however, take up to 30 minutes for the meter to adjust to extremely wide ambient temperature changes.
7. To find a hot spot, aim the meter outside the area of interest then scan across (in an up and down motion) until the hot spot is located.

MAINTENANCE

1. **KEEP THE METER DRY**. If it gets wet, wipe it off.
2. **USE AND STORE THE METER IN NORMAL TEMPERATURES.** Temperature extremes can shorten the life of the electronic parts and distort or melt plastic parts.
3. **HANDLE THE METER GENTLY AND CAREFULLY.** Dropping it can damage the electronic parts or the case.
4. **KEEP THE METER CLEAN.** Wipe the case occasionally with a damp cloth. DO NOT use chemicals, cleaning solvents, or detergents.
5. **USE ONLY FRESH BATTERIES OF THE RECOMMENDED SIZE AND TYPE.** Remove old or weak batteries so they do not leak and damage the unit.
6. **IF THE METER IS TO BE STORED FOR A LONG PERIOD OF TIME**, the batteries should be removed to prevent damage to the unit.

REPLACING THE BATTERIES

When the low battery symbol  appears on the lower left side of the display, replace the meter's battery (9V). The battery compartment is located behind the black panel that surrounds the meter's trigger (see diagram). Open the compartment by pulling the black panel down from the trigger area. Replace the 9V battery and close the battery compartment cover.