WARRANTY/DISCLAIMER

OMEGA ENGINEERING, INC. warrants this unit to be free of defects in materials and workmanship for a period of 13 months from date of purchase of the base unit and 12 months from date of purchase of Laser Sight Module. OMEGA’s Warranty adds an additional one (1) month grace period to the normal one (1) year product warranty to cover shipping and handling time. This ensures that OMEGA’s customers receive maximum warranty coverage on each product.

If the unit malfunctions, it must be returned to the factory for evaluation. OMEGA’s Customer Service Department issues an Authorized Return (AR) number immediately upon phone or written request. Upon examination by OMEGA, if the unit is found to be defective, it will be repaired or replaced at no charge. OMEGA’s Warranty does not apply to defects resulting from any action of the customer, including but not limited to mishandling, improper interfacing, operation outside of design limits, improper repair, or unauthorized modification. This WARRANTY is VOID if the unit shows evidence of having been tampered with or shows evidence of having been damaged as a result of excessive corrosion; or current, heat, moisture or vibration; improper specification; misuse; or other accidental conditions outside of OMEGA’s control. Components which wear are not warranted, including but not limited to contact points, fuses, and triacs.

OMEGA is pleased to offer suggestions on the use of its various products. However, OMEGA neither assumes responsibility for any omissions or errors nor assumes liability for any damages that result from the use of its products in accordance with information provided by OMEGA, either verbal or written. OMEGA warrants only that the parts manufactured by it will be as specified and fit for the purpose intended by the customer. OMEGA MAKES NO OTHER WARRANTIES OR REPRESENTATIONS OF ANY KIND WHATSOEVER, EXPRESS OR IMPLIED, WITH RESPECT TO THE PRODUCTS SOLD HEREUNDER, INCLUDING ANY WARRANTY OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE AND ALL IMPLIED WARRANTIES OF LIMITATION OF LIABILITY. The remedies of purchaser set forth herein are exclusive and are in lieu of all warranties, express or implied, with respect to this order, whether based on contract, warranty, negligence, indemnification, strict liability or otherwise.

CONDITIONS: Equipment sold by OMEGA is not intended to be used, nor shall it be used, as a "Basic Component" to be certified in the manufacture or testing of any product which is used as a "Basic Component" under 10 CFR 21 (NRC), used in any nuclear production, or to be used in any nuclear activities. OMEGA assumes no responsibility for any failure to meet specifications of any customer product. Customer products must be as specified by the customer and be designed and manufactured with the same degree of care and workmanship as OMEGA.

REPAIR INSTRUCTIONS AND/or PARTS INFORMATION

1. Purchase Order number under which the product was PURCHASED.
2. Model and serial number of the product.
3. Product name and/or description of the product.
4. To complete a temperature measurement, release the trigger, the thermometer goes in sleep mode.

NOTE: The icon flashes and the unit beeps intermittently, the batteries must be replaced with fresh batteries immediately.

While in these 5 modes: Use [key] to change temperature from °F to °C or vice versa.
Use [key] to turn on the display backlighting.

While in these 5 modes:
1. Press the [MODE] key to lock the trigger. The [LCK] icon will appear. This allows the thermometer to operate continuously whether or not the trigger is pulled. To unlock the trigger, press the [MODE] key again.
2. Temperature range: 0 to 999 °F (−40 to 550 °C)
3. Press the [MODE] key to lock the trigger.
4. Complete a temperature measurement, release the trigger.

CAUTION: Use of controls or adjustments or performance of procedures other than those specified here may result in hazardous radiation exposure. Refer to the Operator’s Manual for complete warnings and cautions.
Using this Quick Start Manual

Use this Quick Start Manual with your OS530/OS520 series Handheld Infrared Thermometer to set it up and perform basic operations. These tasks are:

- Installing the Batteries
- Operating the Laser Sight
- Taking Temperature Readings
- Display Mode Sequence

For detailed information, refer to the User’s Guide (M2891).

Getting Started

Parts of the Thermometer

Installing the Batteries

Invert the unit and install 4 fresh AA size batteries as shown in Figure 4.

Taking Temperature Readings

1. Aim at the target. If you are not using the Laser Sighting, use the “V” groove on top of the thermometer to align the target to the thermometer’s field of view.

   ![Field of View](image)

   (ACCEPTABLE) (UNACCEPTABLE)

   **Measurement distance is from the outside surface of the rubber boot.**

   Figure 9. OS534/OS523-1 Field of View

   Figure 10. OS53x-CF Field of View

   Figure 11. OS523-2 Field of View

   Figure 12. OS523-3 Field of View

   Figure 13. OS524 Field of View

ac Operation

The thermometer may be operated on ac power using the optional ac adapter. 120Vac/60 Hz and 220Vac/50 Hz adapters are available.

Operating the Laser Sight Module

**WARNING: DO NOT AIM THE LASER BEAM AT ANYONE’S EYES.**

The laser sight module is built into the thermometer. Set the laser power switch to the ON position.

The thermometer is ready for operation.

![2 Types of Laser Beams](image)

Figure 5. Two Laser Configurations

The thermometer is ready for operation.