



## WARRANTY/DISCLAIMER

OMEGA ENGINEERING, INC. warrants this unit to be free of defects in materials and workmanship for a period of **25 months** from date of purchase of the **base unit** and **13 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 handling and shipping time. This ensures that OMEGA's customers receive maximum coverage on each product.

If the unit malfunctions, it must be returned to the factory for evaluation. OMEGA's Customer Service Department will issue 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 purchaser, 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; misapplication; misuse or other operating conditions outside of OMEGA's control. Components in which wear are not warranted, include but are not limited to contact points, fuses, and triacs.

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**CONDITIONS:** Equipment sold by OMEGA is not intended to be used, nor shall it be used: (1) as a "Basic Component" under 10 CFR 21 (NRC), used in or with any nuclear installation or activity; or (2) in medical applications or used on humans. Should any Product(s) be used in or with any nuclear installation or activity, medical application, used on humans, or misused in any way, OMEGA assumes no responsibility as set forth in our basic WARRANTY/DISCLAIMER language, and, additionally, purchaser will indemnify OMEGA and hold OMEGA harmless from any liability or damage whatsoever arising out of the use of the Product(s) in such a manner.

## RETURN REQUESTS/INQUIRIES

Direct all warranty and repair requests/inquiries to the OMEGA Customer Service Department. BEFORE RETURNING ANY PRODUCT(S) TO OMEGA, PURCHASER MUST OBTAIN AN AUTHORIZED RETURN (AR) NUMBER FROM OMEGA'S CUSTOMER SERVICE DEPARTMENT (IN ORDER TO AVOID PROCESSING DELAYS). The assigned AR number should then be marked on the outside of the return package and on any correspondence.

FOR **WARRANTY** RETURNS, please have the following information available BEFORE contacting OMEGA:

1. Purchase Order number under which the product was PURCHASED,
2. Model and serial number of the product under warranty, and
3. Repair instructions and/or specific problems relative to the product.

FOR **NON-WARRANTY** REPAIRS, consult OMEGA for current repair charges. Have the following information available BEFORE contacting OMEGA:

1. Purchase Order number to cover the COST of the repair or calibration,
2. Model and serial number of the product, and
3. Repair instructions and/or specific problems relative to the product.

OMEGA's policy is to make running changes, not model changes, whenever an improvement is possible. This affords our customers the latest in technology and engineering.

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3. Press the **LOCK** 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 **LOCK** key again.
4. To complete a temperature measurement, release the trigger; the thermometer goes into sleep mode.

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

While in these 5 modes:

Use **°C/°F** key to change temperature from °F to °C or vice versa.

Use **☀** key to turn on the display backlighting.

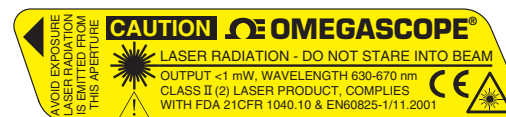
It is the policy of OMEGA Engineering, Inc. to comply with all worldwide safety and EMC/EMI regulations that apply. OMEGA is constantly pursuing certification of its products to the European New Approach Directives. OMEGA will add the CE mark to every appropriate device upon certification.

The information contained in this document is believed to be correct but OMEGA Engineering, Inc. accepts no liability for any errors it contains, and reserves the right to alter specifications without notice.

**WARNING:** These products are not designed for use in, and should not be used for, human applications.

**PATENT NOTICE:** U.S. PAT. D357,194, B1 5,368,392, 5,524,984, 5,727,880, 5,465,838 5,823,678, 5,823,679, 6,267,500B1, 6,123,453, 6,341,891B1/Canada 75811 D OMEGA ENGINEERING, INC., 2,116,055, 2,114,806/Czech Republic 25372E/ence 0378411 to 0378446, 2,767,921, 2 773 213 B1/Germany M 94 06 478.4, G 94 22 197.9, G 94 22 203.7/Italy RM940000913/Japan 988,378/ Netherlands 1007752, 25009-00/Spain mod. ut. 133292/Slovak Republic 24565/U.K. Registered 2041153, 9726133.3, EPO 0 644408, EP 1 085 307 A1 Other U.S. and International Patents Pending.

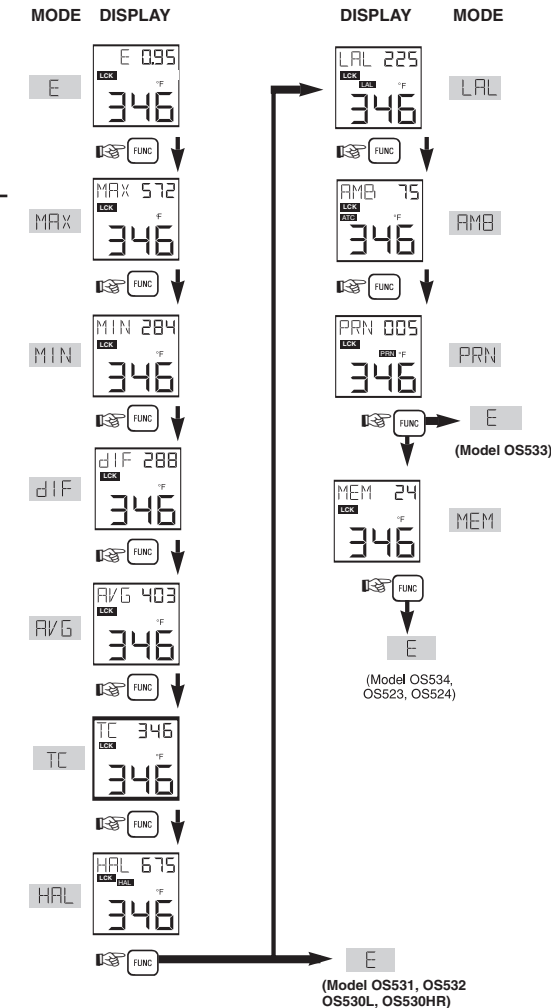
**CAUTION:** Use of controls or adjustments or performance of procedures other than those specified here may result in hazardous radiation exposure. Refer to the Operator's Manual for complete warnings and cautions.



Warning and Certification Label

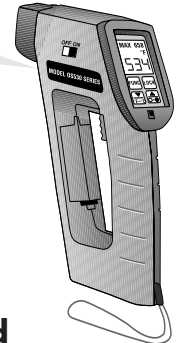
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## VISUAL FUNCTION FLOW CHART



## QUICK START

**OS531**  
**OS532**  
**OS533**  
**OS534**  
**OS530L**  
**OS530HR**  
**OS53x-CF**  
**OS523**  
**OS524**



**OMEGASCOPE®**  
**Handheld Infrared**  
**Thermometer**



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## 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

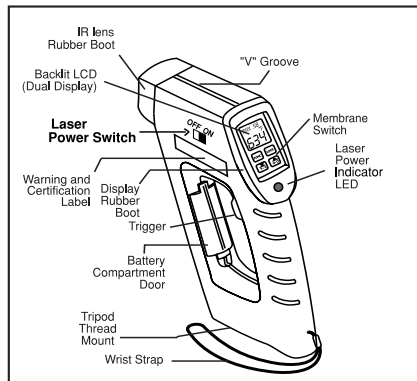


Figure 1. Front of the Thermometer

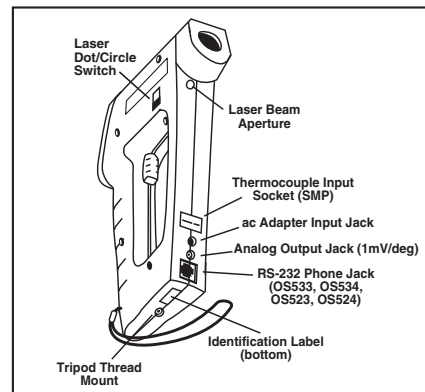


Figure 2. Rear of the Thermometer

### Parts of the Display

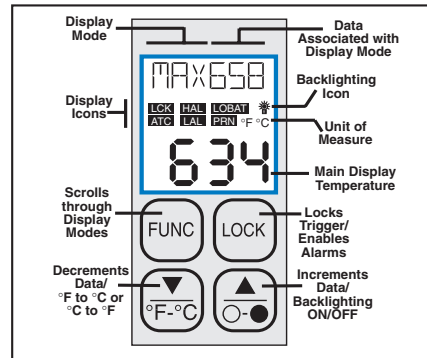


Figure 3. Display and Keypad View

### Installing the Batteries

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

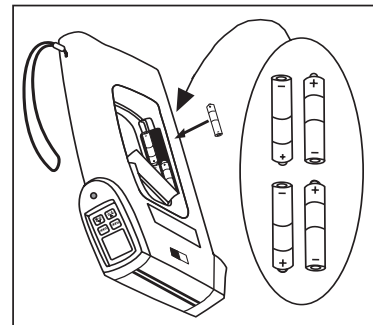


Figure 4. Installing the Batteries

### 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.

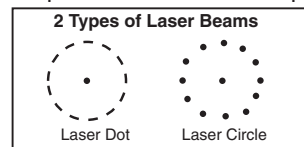


Figure 5. Two Laser Configurations

The thermometer is ready for operation.

### 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.

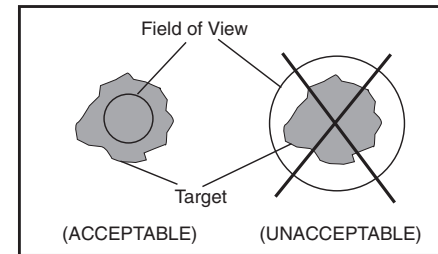


Figure 6. Field of View Positions

2. Pull and hold the trigger. To use the laser sighting, set the laser power switch to the ON position. The Power Indicator LED and the laser beam will turn on. The laser beam will stay on as long as the trigger is pulled. The target temperature and emissivity (E) will be displayed on the LCD. You can press the  $\uparrow$  or  $\downarrow$  key to increment or decrement the target emissivity.

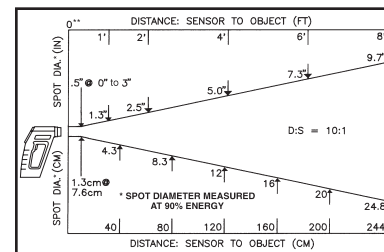


Figure 7. OS531, OS532, OS530L Field of View

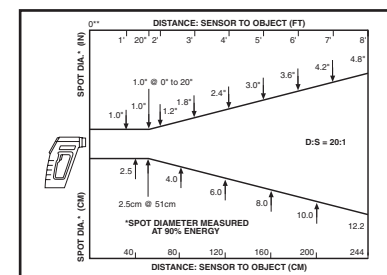


Figure 8. OS533, OS530HR Field of View

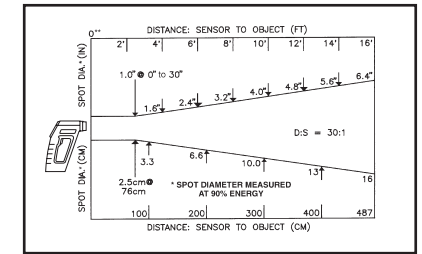


Figure 9. OS534/OS523-1 Field of View

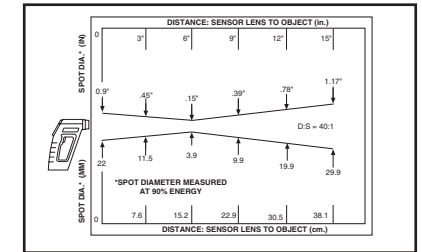


Figure 10. OS53x-CF Field of View

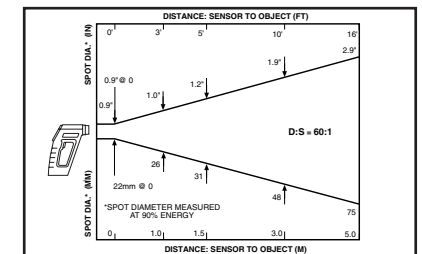


Figure 11. OS523-2 Field of View

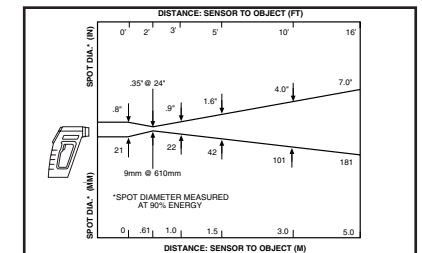
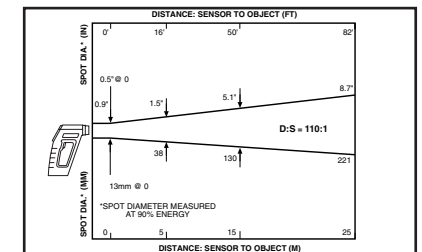


Figure 12. OS523-3 Field of View



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

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