

SUPERMETER[®]

with Patented Laser Sighting

Non-Contact Temperature Measurement

3 METERS IN 1

HHM290
\$245



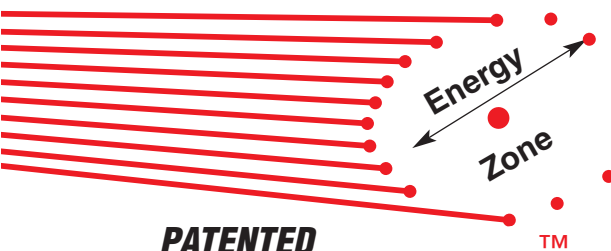
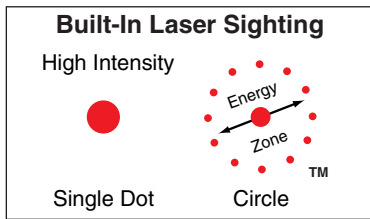
True RMS Measurement!

Non-Contact Temperature Measurement

Differential Temperature Measurement

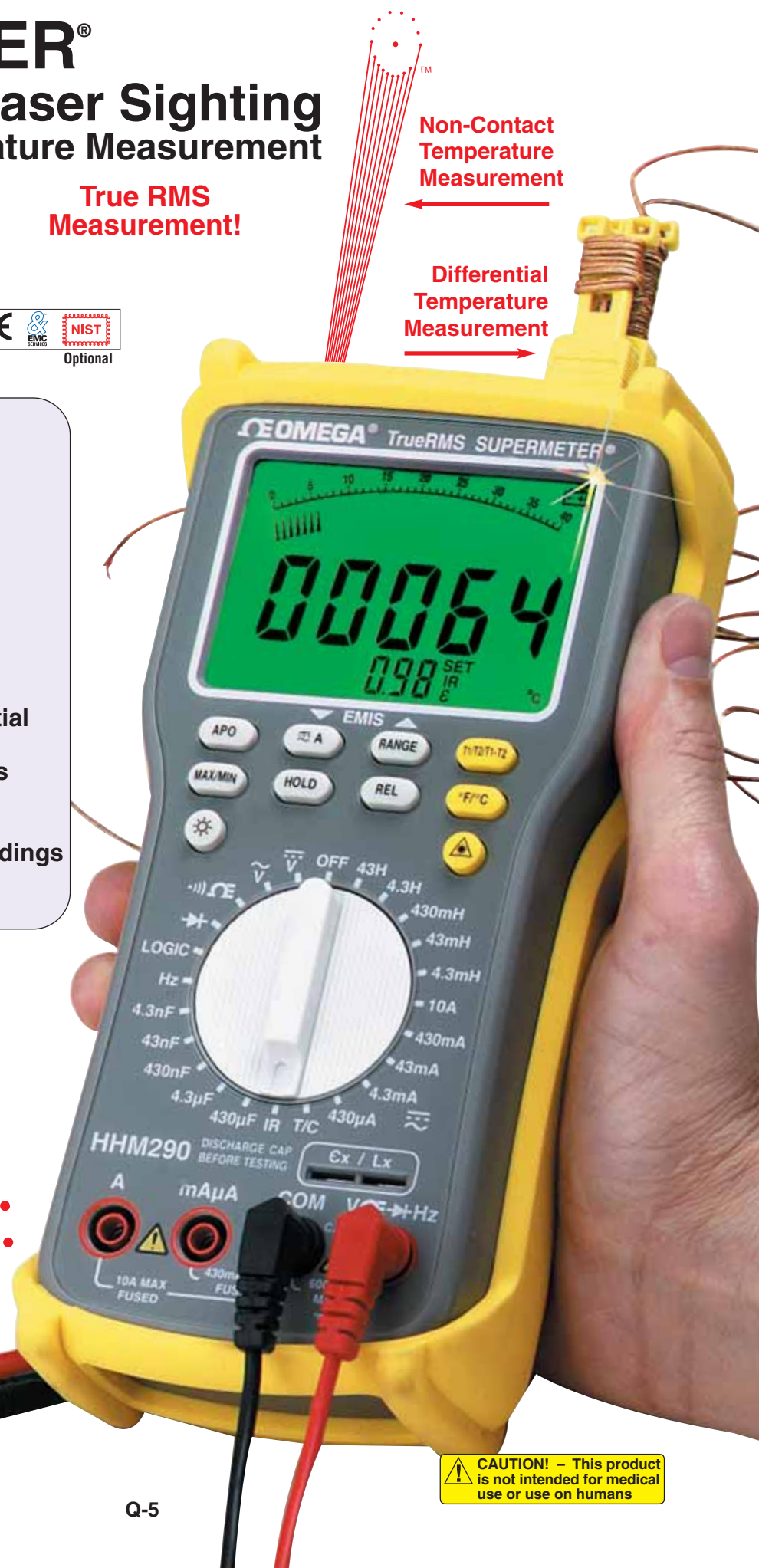
- UNIQUE FEATURES!**
- ✓ Built-In Infrared Pyrometer with Switchable Laser Dot/Circle Sighting
 - ✓ Adjustable Emissivity with 10:1 Field of View
 - ✓ Full-Function Auto-Ranging Digital Multimeter
 - ✓ Measures Capacitance, Inductance, and Frequency
 - ✓ Dual Thermocouple Input (Non-Isolated) with Differential Temperature Function
 - ✓ Powered by 6 "AA" Batteries or DC Adaptor
 - ✓ Built-In Tripod Mount
 - ✓ Monitors Min, Max, Avg Readings
 - ✓ Rugged Housing with Removable Boot

Laser Circle to Dot Switchable™



PATENTED
Covered by U.S. and International patents and pending applications

6 "AA" batteries included.



CAUTION! – This product is not intended for medical use or use on humans

True RMS Measurement!

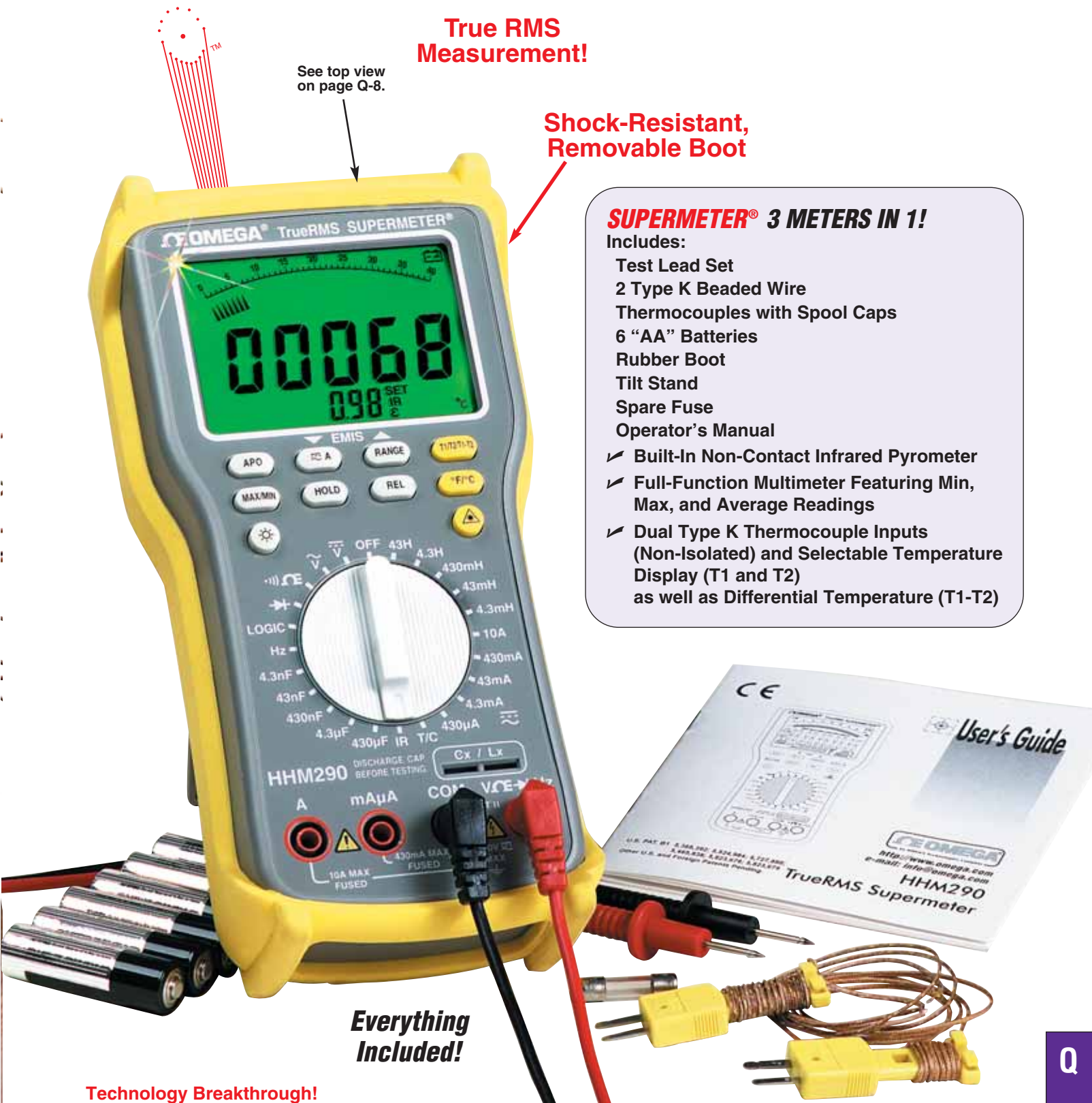
See top view on page Q-8.

Shock-Resistant, Removable Boot

SUPERMETER® 3 METERS IN 1!

Includes:

- Test Lead Set
- 2 Type K Beaded Wire Thermocouples with Spool Caps
- 6 "AA" Batteries
- Rubber Boot
- Tilt Stand
- Spare Fuse
- Operator's Manual
- ✓ Built-In Non-Contact Infrared Pyrometer
- ✓ Full-Function Multimeter Featuring Min, Max, and Average Readings
- ✓ Dual Type K Thermocouple Inputs (Non-Isolated) and Selectable Temperature Display (T1 and T2) as well as Differential Temperature (T1-T2)



Everything Included!

Technology Breakthrough!

"It's a technician's dream come true!" OMEGA's new, patented, "all-in-one" The HHM290 SUPERMETER® combines the functions of a true RMS full-function multimeter, a non-contact infrared pyrometer with laser sighting and a dual-input Type K (non-isolated) thermocouple meter with a differential measurement feature into one power-packed handheld instrument. The multimeter measures DC/AC voltage,

current, resistance, frequency, and capacitance, and features a built-in logic and diode tester. The infrared pyrometer offers adjustable emissivity, a wide temperature range, a 10:1 field of view, and a laser sighting selector switch. With this switch, the user can select between "a single laser dot" for hot spot locating and "a laser circle pattern" that outlines the optical field of view for average area measurement. The large

backlit LCD shows simultaneous readings in both digital and analog bar graph format with settings for min/max and average readings. Features include auto power-off, fused multimeter inputs, and battery or AC wall adaptor power. The HHM290 comes with safety test leads, dual Type K temperature probes, rubber protective boot, batteries, spare fuse, and operator's manual. Units are CE marked.

Specifications

General

Operating Temperature:
0 to 40°C (32 to 104°F)

Power: 6 "AA" batteries (included) or optional DC adaptor, 9 Vdc @ 200 mA

Display: Dual backlit LCD with digital readout of 43,000 counts and analog bar graph of 40 counts

Display Resolution:

Range	Display Resolution
0 to 4.3	0.0001
0 to 43	0.001
0 to 430	0.01
0 to 4300	0.1
0 to 43000	1

Low Battery Indicator:
Icon on LCD

Battery Life: 100 hours normal usage without laser or LCD backlight

Tripod Mount: 1/4" to 20 UNC

Dimensions: 203 H x 101 W x 51 mm D (8 x 4 x 2")

Weight: 640 g (1.42 lb)

Switch from High Intensity Dot!



Temperature Measurement

Thermocouple Type:

Dual Type K (non-isolated)

Display: T1, T2, or T1-T2

Accuracy: 2% rdg or 2°C

Measurement Range: -200 to 1372°C (-328 to 1999°F)

Infrared Measurement

Measurement Range: -20 to 550°C (-4 to 1022°F)

Accuracy @ 22°C: 2% rdg or 1.7°C, whichever is greater

Resolution: 1°C or °F

Optical Field of View: 10:1

Spectral Response:

8 to 14 microns

Emissivity:

0.1 to 1 adjustable

Response Time:

≤1.5 seconds

Laser Sighting

Wavelength (Color): 630 to 670 nm (red)

Operating Distance:

Laser Dot: Up to 12 m (40')

Laser Circle: Up to 4.5 m (15')

Maximum Optical Power Output:

<1 mW Class II laser product

Laser Indicator: Laser icon on the display

Multimeter

DC Voltage

Range: 430 mV to 1000 V

Accuracy: 0.25% rdg + 10 digits

AC Voltage

Range: 430 mVac to 750 Vac

Accuracy: 1% rdg + 20 digits

DC Current

Range: 430 µA to 10 A

Accuracy:

0.5% rdg + 10 digits (up to 43 mA)

2% rdg + 10 digits (up to 10 A)

AC Current

Range: 430 µA to 10 A

Accuracy:

1% rdg + 20 digits (up to 430 mA)

2.5% rdg + 20 digits (up to 10 A)

Resistance

Range: Up to 41 MΩ

Accuracy: 0.3% rdg + 20 digits

(Up to 4.3 MΩ)

Frequency

Range: Up to 1 MHz

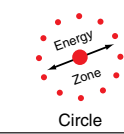
Accuracy: 0.1% rdg + 3 digits

Capacitance

Range: 4.3 nF to 430 µF

Accuracy: 5% rdg + 100 digits

Switch from Circle!



Differential Temperature Sensors Included.

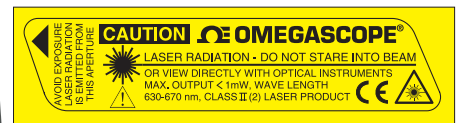


Shown with Tilt Stand and Rubber Boot (Included).



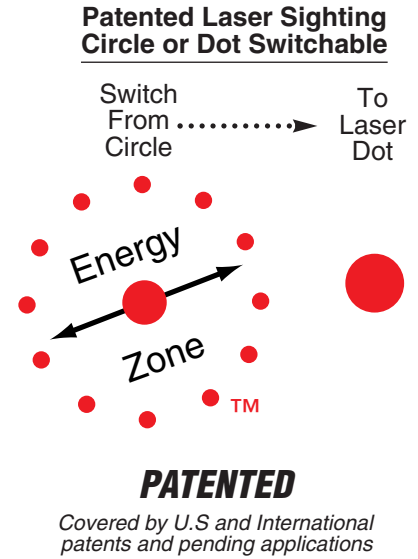
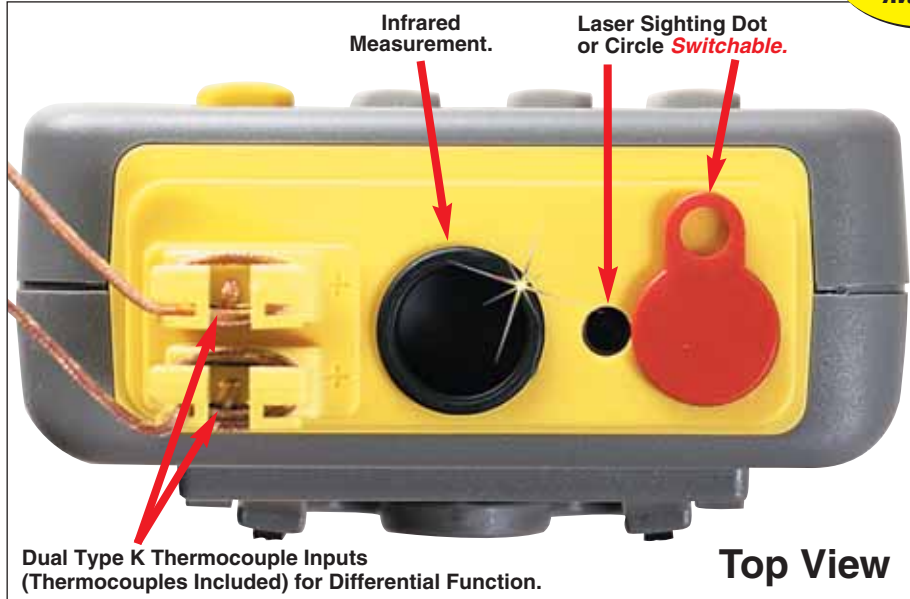
Tripod Mountable.

Optional AC Adaptor (See "To Order" on Next Page).



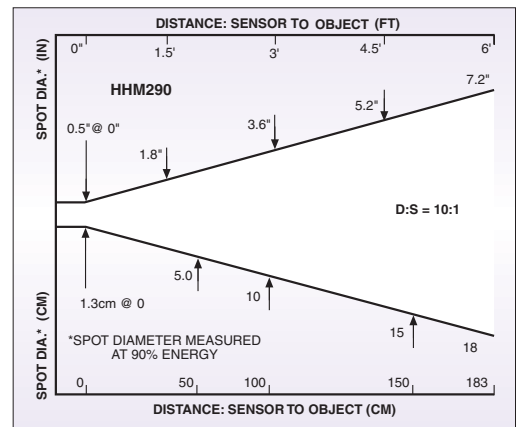
SUPERMETER® 3 METERS IN 1!

**Immediate
Delivery
Available.**



- ✓ Built-In Non-Contact Infrared Pyrometer
- ✓ Full-Function Multimeter Featuring Min, Max, and Average Readings
- ✓ Dual Type K Thermocouple Input (Non-Isolated) and Temperature Display (T1 and T2) as well as Differential Temperature (T1-T2)
- ✓ Built-In Patented Laser Circle Sighting for Infrared Measurement
- ✓ Digital Emissivity Adjustment from 0.1 to 1.00 in 0.01 Steps
- ✓ Optical Field of View of 10:1 (Distance to Spot Size)
- ✓ High-Performance, Rugged Design with Large Backlit LCD
- ✓ Measures Voltage, Current, Resistance, Capacitance, Inductance, and Frequency
- ✓ Built-In Diode and Logic Test
- ✓ Battery as well as Optional AC Power
- ✓ Auto Power-Off
- ✓ Tripod Mount and Built-In Rubber Boot

10:1 Field of View



AVAILABLE FOR FAST DELIVERY!

To Order (Specify Model Number)		
Model No.	Price	Description
HHM290	\$245	Digital multimeter/infrared thermometer with laser sighting dot/circle switch
Options and Accessories		
HHM290-SC	15	Soft carrying case
HHM-TL	5	Replacement test leads (1 set)
OS520-Adaptor-110V	25	110 Vac adaptor
OS520-Adaptor-220V	25	220 Vac adaptor
KTSS-HH	29	General purpose immersion probe, Type K
88001K	110	General purpose surface probe, Type K
CAL-3-IR [†]	125	NIST-traceable calibration
TRIPOD	45	Lightweight tripod with soft carrying case

[†] Consult Sales for prices on additional calibration services
Comes with rubber boot, 2 Type K beaded wire thermocouples, 6 "AA" alkaline batteries, test leads and operator's manual.
Ordering Example: HHM290, Digital multimeter/infrared thermometer with laser sighting, HHM290-SC, soft carrying case, KTSS-HH, general purpose immersion probe, CAL-3-IR, NIST-traceable calibration, and TRIPOD, \$245 + 15 + 29 + 125 + 45 = \$459.

