

Dual Laser InfraRed Thermometers

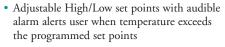
NEV

42509 IR Thermometer with Color Alert

Programmable alarm with fast two-color display and audible alarm

Features:

- Great for processes that require temperature control and monitoring
- Fast, accurate measurements at 12" where the two lasers converge with 12:1 field of view
- Measures up to 950°F (510°C)
- Blue backlit dual LCD display changes to Red when reading exceeds High or Low set points
- Exclusive 150 millisecond instantaneous response for capturing spikes in temperature
- Max mode captures and holds rapidly changing temperatures
- · Lock function for continuous readings
- Adjustable emissivity increases measurement accuracy for different surfaces



- Double molded housing
- · Complete with case and 9V battery



	Function	
S	Laser Convergence Distance	12" (30.5 cm)
Specifications	Range	-4 to 950°F (-20 to 510°C)
÷.	Repeatability	±0.5% or 1.8°F/1°C
ဗီ	Basic Accuracy	±(1% of rdg + 2°F/1°C)
÷.	Max resolution	0.1°F/C
S S	Emissivity	0.10 to 1.00 Adjustable
ă	Field of View (Distance to Target)	12:1
S	Dimensions	5.7x4x1.6" (146x104x43mm)
	Weight	5.7oz (163g)

Ordering

42512 Dual Laser IR Thermometer

30" (76.2 cm)

0.1°F/C 0.10 to 1.00 Adjustable

30:1

5.7oz (163g)

±0.5% or 1.8°F/1°C

±(1% of rdg + 2°F/1°C)

5.7x4x1.6" (146x104x43mm)

-58 to 1832°F (-50 to 1000°C)

Fast and accurate measurements to 1832°F (1000°C)

Features:

- Dual laser simplifies distance-to-target ratio—no more calculations!
- Accurate measurements at 30" distance
- Exclusive 150 millisecond instantaneous response for capturing spikes in temperature
- Max mode captures and holds rapidly changing temperatures
- Lock function for continuous readings
- White backlit dual LCD display

Laser Convergence Distance

Field of View (Distance to Target)

- Adjustable emissivity increases measurement accuracy for different surfaces
- Double molded housing

Basic Accuracy

Max resolution

Emissivity

Dimensions Weight

Function

Range Repeatability

Specifications

- Adjustable High/Low set points with audible alarm alerts user when temperature exceeds the programmed set points
- · Complete with carrying case and 9V battery





Fast response captures hot spots

30" Distance IR



Ordering





Dual Laser and Wireless InfraRed Thermometers

42570 High Temperature IR Thermometer

Fast response (100mS) with highest accuracy at point where dual lasers converge plus Type K input and USB interface

Features:

- High 50:1 distance to target ratio measures smaller surface areas at greater distances
- Dual Laser Targeting indicates ideal measuring distance when two laser points converge to 1" target spot
- Fast 0.10 second response time
- Lock function for continuous measurements
- Stores up to 100 readings

Function

Repeatability Basic Accuracy

Max resolution

Type K Range Dimensions/ Weight

Emissivity

Specifications

- White backlit LCD with bargraph
- MAX/MIN/AVG/DIF functions

Laser Convergence Distance

Field of View (Distance to Target)

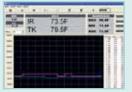
IR Temperature Range

- Adjustable emissivity
- Adjustable High/Low set points with audible alarm
- Tripod mounting feature
- Complete with Type K bead wire probe (-22 to 572°F/ -30 to 300°C), USB cable and PC software, tripod, 9V battery and case
 (See pages 42 and 80 for Type K Thermocouple probes)





Fast, easy-to-use, dual laser pointer converge at 50" distance from target providing precise reading without the guesswork.



PC software included

Ordering

42560 IR Thermometer with Wireless PC Interface

8x6.1x2" (204x155x52mm)/ 11.3oz (320g)

Wireless USB interface transmits temperature data to a PC

50" (127cm)

0.1°F/°C

50:1

±0.5% or 1.8°F/1°C

±(1% of rdg + 2°F/1°C)

0.10 to 1.00 Adjustable

-58 to 3992°F (-50 to 2200°C)

-58 to 2498°F (-50 to 1370°C)

Features:

- Place meter on the Base to transmit wirelessly continuous readings to the Remote Receiver connected to a PC via USB cable
- High 30:1 distance to target ratio
- Built-in laser pointer
- Lock function for continuous measurements
- Stores up to 20 readings
- Type K temperature function
- MAX/MIN/AVG/DIF functions
- Manual/Automatic emissivity
- High/Low set points with audible alarms

Function

IR Range Type K Range

Repeatability

Basic Accuracy

Max. Resolution

Dimensions/Weight

Field of View (Distance to Target)

Emissivity

Power

Specifications

- Data Hold, Auto power off with disable function, low battery indication, 1mV/°F analog output
- Tripod mounting feature

-58 to 1922°F (-50 to 1050°C)

-58 to 2498°F (-50 to 1370°C)

9V battery; AC adaptor for Base

IR: ±2% or ±4°F/2°C ; Type K: ±1.5% ±5°F/3°C

3.9x2.2x9" (100x56x230mm)/ 10.2oz (290g)

±0.5% or ±1.8°F/1°C

0.1 to 1.00 Adjustable

0.1°F/°C

30:1

• Complete with Transmitter Base, Remote Receiver with USB cable, Type K bead wire probe (-22 to 572°F/-30 to 300°C), tripod, analog output cable, PC software, 9V battery, AC adaptor, and hard case See p. 80 for additional Type K Thermacouple probes (sold separately)





Continuous wireless data transfer to the PC using the receiver and software (included). Meter is mounted on a tripod for applications that requires an on-going temperature monitoring of a specific area when meter is set on lock measuring position.

Ordering

42560.................IR Thermometer w/Wireless PC Interface (918MHz)
42560-NIST......42560 with NIST Certificate
42560-E.........IR Thermometer w/Wireless PC Interface (433MHz)
42560-E-NIST.42560-E with NIST Certificate
TR100...........Spare Tripod
(NOTE: USA, Mexico, and Canada use 918MHz model and majority of other countries use 433MHz model)

...trusted by the professionals.



High Temperature IR Thermometers



InfraRed Thermometers

Extech's range of High Temperature IR Thermometers include models with alarms, Type K inputs or Datalogging and printing capabilities.

Featuring Model 42545



-58 to 1832°F (-50 to 1000°C) for demanding applications

50:1 Distance to Target

Measures small areas from greater distances

Laser Pointer

Identifies target area and improves aim

50:1 field of view

EXTECH 50 in. distance 100 in. distance 1 in. target 2 in. target (125cm:2.5cm) (250cm:5cm)

200 in. distance 4 in. target (500cm:10cm)



All models include carrying case (either soft or hard) and 3 year warranty

Order Meter with NIST Certificate*

All Extech meters come factory calibrated. For an additional charge, Extech will supply your meter with a Certificate of Calibration Traceable to N.I.S.T. with Data at multiple points. To order meter with NIST:

42515-NIST 42540-NIST 42545-NIST

*Only products listed are available with NIST Certificate. Meter must be ordered with NIST Certificate at time of purchase.

Specifications

N

Model					
Range					
Basic Accuracy					
Repeatability					
Max. Resolution					
Emissivity					
Field of View (Distance to Target)					
Dimensions					
Weight					
CE					
Warranty					

Extech Instruments: The brand of choice...

STREET, STREET



High Temperature IR Thermometers



42515 1472°F (800°C), 13:1, IR Thermometer Type K Input, Memory

Automatic Emissivity Adjustment allows accurate measurement of virtually any surface

- ✓ Wide temperature range for IR temperature and type K thermocouple measurements
- ✓ Automatic emissivity adjustment (for temperatures 212°F or higher)
- ✓ Memory stores up to 20 readings
- ✓ Adjustable high/low visual and audible alarm
- ✓ MAX/MIN/AVG/DIF features display highest, lowest, average, and MAX minus MIN values
- Large LCD display with bright backlight
- Built-in laser pointer improves aim
- Data Hold, Auto power off, and Low battery indication
- Complete with 9V battery, type K bead wire probe (-22 to 572°F/-30 to 300°C), and soft case

42515

-58 to 1472°F (InfraRed); -58 to 2498°F (Type K)

-50 to 800°C (InfraRed); -50 to 1370°C (Type K)

(IR) ±2%rdg or 4°F (2°C);

 $\pm 1.5\%$ rdg + 2°F/1°C (Type K)

±0.5% or ±1.8°F/1°C

0.1°F/°C

0.1 to 1.00 Adjustable

13:1

3.2 x1.6x6.3" (82x42x160mm)

6.4oz (180g)

Yes

✓3 years

See pages 42 and 80 to order other Type K probes

42540 1400°F (760°C), 16:1, with Alarm, IR Thermometer

16:1 distance to target ratio, rugged thermometer

0.00

- ✓ High Temperature range from -58° to 1400°F (-50 to 760°C)
- ✓16 to 1 distance to target ratio
- ✓ Adjustable high/low alarm alerts user visually and audibly when temperature exceeds programmed limits
- ✓ Adjustable emissivity for better accuracy on different surfaces
- ✓ MIN/MAX/AVG/DIF features display highest, lowest, average, and MAX minus MIN values

42540

-58 to 1400°F

-50 to 760°C

±2%rdg or 4°F (2°C) whichever

is greater<932°F (500°C);

±(2.5%rdg + 5°)> 932°F (500°C)

 $\pm 0.5\%$ or $\pm 1.8^\circ\text{F}/1^\circ\text{C}$

0.1°F/°C

0.1 to 1.00 Adjustable

16:1

3.9x2.2x9" (100x56x230mm)

10.2oz (290g)

Yes

✓3 years

- Large backlit display
- Laser pointer identifies target area
- Automatic Data Hold
- Auto power off
- Complete with 9V battery and hard carrying case



42545 1832°F (1000°C), 50:1, with Alarm, IR Thermometer

50:1 distance to target ratio

- ✓ Highest 50 to 1 distance to target ratio measures smaller surface areas at greater distances
- ✓ Widest Temperature range from -58 to 1832°F (-50 to 1000°C)
- ✓ Adjustable high/low alarm alerts user visually and audibly when temperature exceeds programmed limits
- ✓ Adjustable emissivity for better accuracy on different surfaces
- ✓ MIN/MAX/AVG/DIF features display highest, lowest, average, and MAX minus MIN values
- Large backlit display
- Laser pointer identifies target area
- Automatic Data Hold
- Auto power off
- Complete with 9V battery and hard carrying case

42545

-58 to 1832°F -50 to 1000°C 2%rdg + 4°F/2°C<932°F (500°C); 3% + 9°F/4°C>932°F (500°C)

±0.5% or ±1.8°F/1°C 0.1°F/°C 0.1 to 1.00 Adjustable 50:1 3.9x2.2x9" (100x56x230mm) 10.2oz (290g) Yes √3 years

...trusted by the professionals.



Non-contact Mini InfraRed Thermometers



InfraRed Thermometers

Extech's non-contact InfraRed thermometers point and measure technology provide fast, easy and accurate readings for most surface temperature measurements.

Featuring Model 42510A

Programmable Alarm

Adjustable High/Low set points alert user when temperature exceeds set point

Adjustable Emissivity

For better accuracy on different surfaces

Laser Pointer

Identifies target area and improves aim

High Accuracy

With $\pm 1\%$ rdg basic accuracy and 0.1° resolution to 199.9°



Applications

Choose the best InfraRed Thermometer to fit your application needs by selecting the proper measurement range, field of view, resolution, and accuracy. Applications include Refrigeration, Boiler, Pavement, Printer/Copier, HVAC/R, Automotive, and Industrial Troubleshooting.

Order Meter with NIST Certificate*

All Extech meters come factory calibrated. For an additional charge, Extech will supply your meter with a Certificate of Calibration Traceable to N.I.S.T. with Data at multiple points. **To order meter with NIST:** 42500-NIST 42510A-NIST

*Only products listed are available with NIST Certificate. Meter must be ordered with NIST Certificate at time of purchase.





IR100 446°F (230°C), 1:1, Mini IR Thermometer

Mini size design for the ultimate convenience and portability

- Measures non-contact surface temperature up to 446°F (230°C)
- Economical mini size design for convenience
- Automatic Data Hold when measure button is released
- Max Hold or Min Hold
- Lock feature for continuous scanning
- Fixed 0.95 emissivity covers 90% of surface applications
- Auto power off
- Complete with CR2032 3V battery

Specifications

Model	IR100	
IR Temperature (Non-contact)	-31 to 446°F	
	-35 to 230°C	
Basic Accuracy	\pm (2.0%rdg) or \pm 4°F/2°C	
Max. Resolution	0.1°	
Emissivity	0.95 fixed	
Field of view (Distance to Target)	1:1	
Dimensions	3x1.6x0.7" (75x40x18mm)	
Weight	1.5oz (43g)	
CE	Yes	
Warranty	1 year	

Extech Instruments: The brand of choice...



Non-contact InfraRed Thermometers



IR201 518°F (270°C), 6:1, Pocket Laser IR Thermometer

Handy troubleshooting thermometer with laser pointer

- Measures non-contact surface temperature up to 518°F (270°C)
- Economical small pocket size design for convenience
- Built-in laser pointer identifies target area
- Data Hold and Max Hold
- Auto power off
- Fixed 0.95 emissivity covers 90% of surface applications
- Complete with two AAA batteries and pouch case

42500 500°F (260°C), 6:1, Compact Laser IR Thermometer

Compact thermometer measures up to 500°F (260°C)

- Built-in laser pointer identifies target area
- Backlighting
- Automatic Data Hold when trigger released
- Fixed 0.95 emissivity covers 90% of surface applications
- Auto power off
- Complete with 9V battery and pouch case

42510A 1200°F (650°C), 12:1, Compact Laser IR Thermometer

Compact thermometer with high accuracy

- ✓ Adjustable high/low visual and audible alarm
- ✓ Adjustable emissivity for better accuracy on different surfaces
- Measures temperature from -58 to 1200°F (-50 to 650°C) with 0.1° resolution up to 199.9°
- Built-in laser pointer identifies target area
- Backlighting
- Overrange indicator
- Automatic Data Hold when trigger released
- MAX/MIN features display highest and lowest values
- Auto power off
- Complete with 9V battery and pouch case

IR201	42500	42510A
-4 to 518°F	-4 to 500°F	-58 to 1200°F
-20 to 270°C	-20 to 260°C	-50 to 650°C
\pm (2.5%rdg \pm 3°F/2°C)	$\pm 2\%$ of reading or $\pm 4^{\circ}F/\pm 2^{\circ}C$ (whichever is greater)	\pm (1% of reading + 2°F/1°C)
1°F/°C	1°F/°C	0.1°F/°C; 1°F/°C
0.95 fixed	0.95 fixed	0.1 to 1.00 Adjustable
6:1	6:1	12:1
3.7x2x1" (94x51x25mm)	3.2x1.7x6.7" (82x44x170mm)	3.2x1.6x6.3" (82x42x160mm)
2.7oz (76g)	4.9oz (140g)	6.4oz (180g)
Yes	Yes	Yes
1 year	✓3 years	✓3 years