

**NEW! Wahl Heat Spy® DHS85XL • DHS115XL • DHS115XEL**

**Introducing Wahl's Brand New Line of Heat Spy® Hand-Held Infrared Thermometers!**

America's most innovative thermometer company, Palmer Wahl, manufactures precision temperature instruments. Wahl was the first to bring the industry a portable, non-contact, handheld infrared thermometer at an affordable price point. Today, Wahl is pleased to introduce five new models to our famous line of Heat Spy® Infrared Thermometers. These incredibly accurate and robust Heat Spy's will help you diagnose any problem, and prevent costly equipment downtime. The variety of features enable you to select the most appropriate Heat Spy® for your application.



DHS115XEL and DHS115XL

**APPLICATIONS**

- Quality/Non-Destructive Testing
  - Electrical Troubleshooting
- Manufacturing Process Control
  - Diesel/Fleet Maintenance
  - Plant/Facilities Maintenance
    - HVAC/Refrigeration
- Automotive Repair and Diagnostics

**DHS115XL Model Features**

- Used for short range: 12:1 (D:S Ratio)
- Temperature Range to 999°F (535°C)
- Easy Aiming
- Quick Response
- Easy to locate a hot spot.

**DHS115XEL Model Additional Features**

- Same great features as the 115XL
- Includes Hi, Low Alarms
- MAX/MIN/AVG/ΔT calculations
- Adjustable Emissivity for better accuracy
- 10 points of memory to record temperature
- Electronic trigger lock which allows readings to be taken continuously.

**DHS85XL Model Features**

- The most economical and highest performing Heat Spy in its class
- Used for close range: 8:1 (D:S Ratio)
- Maximum temperature: 619°F (326°C)



DHS85XL



Specifications subject to change without notice

# NEW! Wahl Heat Spy® DHS215XEL • DHS135XEL



Picture of digital display on models DHS135 and DHS215.



DHS215XEL shown with optional TC869 - 45° Spring Articulated Surface Probe, rugged Delrin® handle, ANSI mini-connector and 5-foot flexible compensated cable. Visit [www.palmerwahl.com](http://www.palmerwahl.com) > Hand Held Instruments > Heat Prober RTD & Thermocouple Temperature Meters Product Line for optional probes.

## DHS215XEL Model Advanced Features

Loaded features provide:

- Extra Long Distance: 50:1 (D:S Ratio)
- High Temperature 1832°F (1000°C)
- Type K Thermocouple ANSI mini-connector input for probe to determine emissivity
- 10 point memory log that can save current temperature, and MAX/MIN/AVG/ΔT and T/C
- Electronic Trigger Lock which allows for continuous readings
- Heat Spy® Data Logging Software

## DHS135XEL Model Features

Fully featured unit:

- Long distance: 30:1 (D:S Ratio)
- High temperature up to 1832°F (1000°C)
- 10 point memory log that can save current temperature, and MAX/MIN/AVG/ΔT
- Electronic Trigger Lock which allows for continuous readings

## DHS215XEL Heat Spy® Data Logging Software



DHS215XEL interfaced with a laptop computer via USB cable and Heat Spy® Data Logging software for online data acquisition. Shown with optional tripod.

The DHS215XEL can be interfaced with a computer via the supplied USB cable and Heat Spy® Data Logging software. The software provides a convenient way to log temperature readings at user selectable time sampling intervals of 1 second to 999 hours in 1-second increments. Temperature data is generated with a date and 24-hour format time

High Performance Infrared Thermometer				
Item	Date	Time	Temperature	Unit
1	5/4	17:39:59	75.9	Fahrenheit
2	5/4	17:40:29	94.3	Fahrenheit
3	5/4	17:40:59	94.3	Fahrenheit
4	5/4	17:41:29	102.2	Fahrenheit
5	5/4	17:41:59	90.7	Fahrenheit

stamp in a text file format that can be used by programs such as Excel, Access and Word for further analysis, graphing and report writing.



Specifications subject to change without notice

# DHS85XL • DHS115XL • DHS115XEL • DHS135XEL • DHS215XEL

## Specifications

Model Number	DHS85XL	DHS115XL	DHS115XEL	DHS135XEL	DHS215XEL
Temperature Range	-4° to 619°F -20° to 326°C	-25° to 999°F -32° to 535°C	-25° to 999°F -32° to 535°C	-58° to 1832°F -50° to 1000°C	-58° to 1832°F -50° to 1000°C
Distance to Spot Ratio	8:1	12:1	12:1	30:1	50:1
Spectral Range	5 to 14µm	8 to 14µm	8 to 14µm	8 to 14µm	8 to 14µm
Emissivity	Fixed at 0.95	Fixed at 0.95	Adjustable 0.10 to 1.00	Adjustable 0.10 to 1.00	Adjustable 0.10 to 1.00
Accuracy	±2% of reading or 2°C whichever is greater	±5.0°F (±3°C) from -25° to -4°F (-32° to -20°C) ±3.0°F (±2°C) from -4° to 212°F (-20° to 100°C) ±2% from 212° to 999°F (100° to 535°C)	±5.0°F (±3°C) from -25° to -4°F (-32° to -20°C) ±3.0°F (±2°C) from -4° to 212°F (-20° to 100°C) ±2% from 212° to 999°F (100° to 535°C)	±5.0°F (±3°C) from -58° to -4°F (-50° to -20°C) ±3.0°F (±2°C) from -4° to 212°F (-20° to 100°C) ±2% from 212° to 1832°F (100° to 1000°C)	±5.0°F (±3°C) from -58° to -4°F (-50° to -20°C) ±3.0°F (±2°C) from -4° to 212°F (-20° to 100°C) ±2% from 212° to 1832°F (100° to 1000°C)
Repeatability	±2°F (±1°C)	±2°F (±1°C)	±2°F (±1°C)	±2°F (±1°C)	±2°F (±1°C)
Resolution	0.1°F (0.1°C)	0.1°F (0.1°C)	0.1°F (0.1°C)	0.1°F (0.1°C)	0.1°F (0.1°C)
Operating Temperature	32° to 122°F (0 to 50°C) 10 - 90% RH	32° to 122°F (0 to 50°C) 10 - 90% RH	32° to 122°F (0 to 50°C) 10 - 90% RH	32° to 122°F (0 to 50°C) 10 - 90% RH	32° to 122°F (0 to 50°C) 10 - 90% RH
Storage Temperature	14° to 140°F (-10° to 60°C)	14° to 140°F (-10° to 60°C)	14° to 140°F (-10° to 60°C)	14° to 140°F (-10° to 60°C)	14° to 140°F (-10° to 60°C)
Response Time	500 ms.	500 ms.	500 ms.	500 ms.	500 ms.
Backlit LCD	Yes	Yes	Yes	Yes	Yes
Secondary Display	NA			Yes	Yes
Power Supply	9V (NEDA 1604)	9V (NEDA 1604)	9V (NEDA 1604)	9V (NEDA 1604)	9V (NEDA 1604)
Battery Life	16 hrs for continuous operation with Laser Off	15 hrs for continuous operation with Laser Off			
°C & °F Switchable	Yes	Yes	Yes	Yes	Yes
Laser Sight Switchable	User Selectable, Class II Laser, less than 1mW				
Auto Power Off	Automatically after approx. 6 seconds	Automatically after approx. 6 seconds	Automatically after approx. 6 seconds	Automatically after approx. 6 seconds	Automatically after approx. 30 seconds
Max/Min/Avg/ΔT	NA	NA	Yes	Yes	Yes
Audible Alarm			Yes	Yes	Yes
10 Point Memory			Yes	Yes	Yes
Electronic Trigger Lock			Yes	Yes	Yes
Tripod Mount			NA	Yes	Yes
USB Data Output			NA	NA	Yes
Type K Thermocouple			NA	NA	Yes
Operating Software	NA				Software Cd Included
Dimensions • Weight	5.9 x 3.2 x 1.3" (150 x 81 x 33mm) 6.3 oz (180g) w/battery	6.8 x 3.6 x 1.8" (173 x 93 x 45mm) 7.8 oz (220g) w/battery		7.9 x 5.0 x 1.9" (200 x 127 x 47mm) 12.7 oz (360g) w/battery	
Included Accessories	Instruction Manual, 9V Battery	Instruction Manual, 9V Battery, Soft Pouch		Instruction Manual, 9V Battery, Carrying Case, Wrist Strap	Instruction Manual, 9V Battery, Carrying Case, Wrist Strap, USB Cable, Type K Probe*
Optional Accessories	Soft Pouch	NA		NA	Optional T/C Probes**

\* Wire Bead thermocouple - 1 meter in length

\*\* Visit [www.palmerwahl.com](http://www.palmerwahl.com) > Hand Held Instruments > Heat Prober RTD & Thermocouple Temperature Meters Product Line for optional probes.

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ONE YEAR  
**1**  
WARRANTY

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INSTRUMENTATION GROUP  
170 Years of Continued Innovation