

Wahl HEAT SPY®

Hand Held Non-Contact
Infrared Thermometers



DHS35XT shown with
LCD display and
telescopic sight

Wahl introduced the **FIRST** portable non-contact infrared thermometer in the world, and continues to provide the wide selection and expert application support you require.

ISO 9001:2008
CERTIFIED QUALITY
MANAGEMENT SYSTEM

PALMER Wahl

INSTRUMENTATION GROUP

Continued Innovation Since 1836

ISO 9001:2008 CERTIFIED

www.palmerwahl.com

Digital version of catalog may
differ from printed version.

DHSA24 • DHSA26 • DHSA28 Series

Since Wahl introduced the **FIRST** digital portable infrared thermometer thousands have been in use trouble-free for years.

With NIST traceable accuracy, **Wahl's DHSA24, DHSA26, DHSA28 Heat Spy® Infrared Thermometers** are the most advanced, easy to use and durable Infrareads in the world.

Their precision ground mirrors are protected by rare-earth germanium filters, and tightly focus infrared energy on the patented detector for accuracy as accurate as $\pm 0.3\%$ full scale with $1^\circ\text{F} / ^\circ\text{C}$ resolution.

Rugged, cast and extruded aluminum case, provides shielding against stray EMF from machinery and engines.

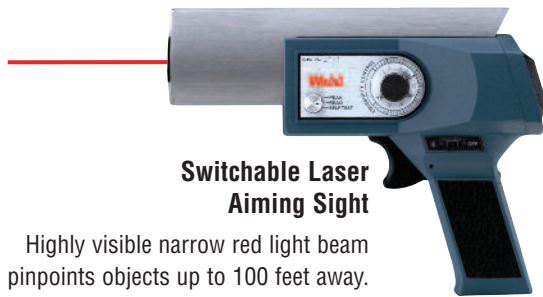
Temperature readings are updated 3 times per second on your choice of standard LCD display, or LED for low light levels.

High reliability and higher accuracy than others.



Telescopic Sight

For long distances (20 to 100 feet) or precise aiming on small objects such as bolts, thick cable, tubing, forgings, and castings. The Heat Spy "T" version telescopic sight provides sighting on the centerline of the infrared optics.



Switchable Laser Aiming Sight

Highly visible narrow red light beam pinpoints objects up to 100 feet away. Good choice for locating hot spots and for centering on targets.



Enclosed Optical Sight

For most applications, the standard enclosed optical sight provides target definition at 4 feet and 20 feet with parallax correction.



Features for All Models

- Adjustable Emissivity
- Maxitemp® Peak Temperature Hold
- Self Test
- Auto Calibration
- Output to Recorder
- AC Adapter
- °F/°C Switchable
- NIST Traceable Accuracy
- Rugged Aluminum Housing
- Sighting and Display Options

Display Options and Modes

Display options for LCD and LED. LCD is best for most uses. Select LED for low light conditions.



Measured temperature is updated 3 times per second on large LCD.



PEAK holds highest measured temperature, and is especially useful in high temperature scans.



TEST mode flashes room temperature to show Heat Spy is working properly.



BATT displays low battery. HLP flashes when instrument is out of specification.



---- indicates measurement is over or under the range of the instrument.

DHSA24 • DHSA26 • DHSA28 Series

DHSA24 • DHSA26 • DHSA28 Series Features

- Superior accuracy and sensitivity between 0° to 1000°F (-20° to 550°C)
- Accuracy of ±0.3% of full scale
- Repeatability of ±1°F
- Enclosed Optical, Closed Laser, or Telescopic Sighting options
- Anti-reflective filter for accurate use in strong sunlight or other light sources
- Applications include all normal materials, including glass surfaces
- Not affected by IR heaters, carbon dioxide or water vapor. Will not measure through glass
- 3 Year Warranty

Please see page 5 for a complete listing of DHS24 specifications.



DHSA24L

DHSA26 Series Additional Features

- Wider Temperature Range: 0° to 2000°F (-20° to 1000°C)
- Accuracy of ±0.3% of full scale
- Application for all normal material, including glass surfaces
- Sighting and Display options available
- 3 Year Warranty

Please see page 5 for a complete listing of DHS26 specifications.



DHSA24XT

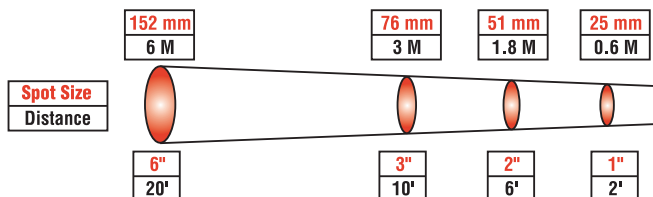
DHSA28 Series Additional Features

- Ultra High Range: 32° to 2500°F (0° to 1380°C)
- Specialized tool for measurement of glass gobs, heat treating, annealing, welding, and metal ingot operations, does not measure through glass ports
- Accuracy of ±0.3% of full scale
- Repeatability is 3°F
- 3 Year Warranty
- Telescopic Sight option recommended

Please see page 5 for a complete listing of DHS28 specifications.



DHSA28XT



DHSA24, 26, and 28 Series Heat Spy
Distance to Spot Ratio: 20:1

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DHS29X • DHS35XT Series



DHS29X

Designed for measurements in the processing of Ferrous and Non Ferrous Metal, the **Wahl DHS29X and DHS35XT Heat Spy®** models are built from the bottom up for precise, accurate measurement of high temperatures under the toughest factory conditions. Rugged, cast and extruded aluminum case, provides shielding against stray EMF from machinery and engines.

DHS29X Series Features

- Measures through glass ports, flames, and products of combustion
- High Temperature Range: 900° to 3200°F (482° to 1760°C)
- Narrow spectral range of 2.1 - 2.5 microns for general purpose, high temperature measurement through glass
- Small target resolution and long telescopic range
- Aim through ports in furnace walls at refractories, glass gobs, furnace tubes, ceramics, billets, slag, and annealing materials
- Sapphire window protects the silicon optics from heat and contamination
- 3 Year Warranty

Please see page 5 for a complete listing of DHS29X specifications.

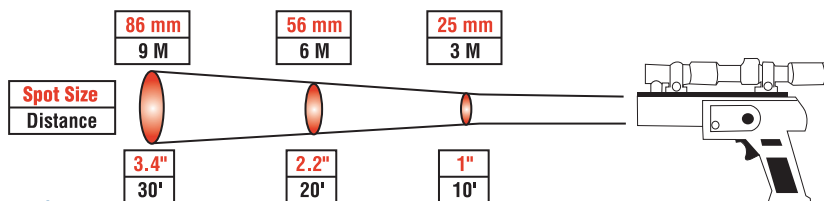
DHS35XT Features

- Measures furnace tube temperatures through open ports
- High Temperature Range: 800° to 3200°F (426° to 1760°C)
- Narrow spectral range of 3.5 - 4.1 microns
- Specialized Reflex Sighting to enable readings from very small target areas
- Minimizes errors caused by the reflectance from walls and flames
- Does not measure through glass ports
- Best choice for high temperature general purpose operations
- Offered with telescopic sighting system only
- 3 Year Warranty

Please see page 5 for a complete listing of DHS35XT specifications.



DHS35XT



**DHS29X, and 35XT Series Heat Spy
Distance to Spot Ratio 100:1**



DHSA24 • DHSA26 • DHSA28 DHS29X • DHS35XT Series

Specifications					
Model Number	DHSA24 (LED) DHSA24X (LCD)	DHSA26 (LED) DHSA26X (LCD)	DHSA28X (LCD)	DHS29X (LCD) DHS29XT (LCD)	DHS35XT (LCD)
Temperature Range	0° to 1000°F -20° to 550°C	0° to 2000°F -20° to 1000°C	32° to 2500°F 0° to 1380°C	900° to 3200°F 482° to 1760°C	800° to 3200°F 426° to 1760°C
Distance to Spot Ratio	20:1			100:1	
Spectral Range	8 to 14 μm	8 to 14 μm	8 to 14 μm	2.1 to 2.5 μm	3.5 to 4.1 μm
Emissivity	Adjustable 0.2 - 1.0				
Accuracy at 77°F ±5°	± 0.3% FS				± 0.5% FS
Repeatability	± 1°F	± 2°F	± 3°F		
Resolution	1°F / °C				
Response Time to 95% of Reading	1 second				
Operating Temperature	25° to 125°F (-4° to 52°C)				
Temperature Coefficient	± 0.1 deg/deg				
Practical Working Distance	0 to 40 ft.	0 to 40 ft. (T) 150 ft.		0 to 150 ft.	
Sighting System	Enclosed, Laser, or Telescope			Enclosed or Telescope	Telescope Only
Output to Recorder	1mV/deg.				
Power Supply	LCD 1 - 9V Alkaline Battery, LED 2 - 6V Batteries				
Battery Life	40 hours Laser Operation Will Reduce Battery Life			40 hours	
Weight (Lbs.)	2.2 lbs (0.99 kg)	2.2 lbs (0.99 kg), (T) 2.8 lbs (01.27 kg)		2.5 lbs (1.13 kg) (T) 3.0 lbs (1.36 kg)	3.0 lbs (1.36 kg)
Included Accessories	User Manual, LCD, 1-9V Battery, LED, 2-6V Alkaline Batteries, Carrying Case, Trigger Lock, AC Adapter (Specify 110V or 220V AC)				

Specifications are subject to change without notice

Model No. Suffix Codes and Availability								
Suffix	No Suffix	X	L1	L5	XL1	XL5	T	XT
Heat Spy Series	F&C, LED enclosed optical sight	F&C, LCD enclosed optical sight	F&C, LED laser sight 1mW	F&C, LED laser sight 5mW	F&C, LCD laser sight 1mW	F&C, LCD laser sight 5mW	F&C, LED telescopic sight	F&C, LCD telescopic sight
DHSA24	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
DHSA26	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
DHSA28	NA	Yes	NA	NA	Yes	Yes	NA	Yes
DHS29	NA	Yes	NA	NA	NA	NA	NA	Yes
DHS35	NA	NA	NA	NA	NA	NA	NA	Yes

Specifications are subject to change without notice



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DHS85XL • DHS115XL • DHS115XEL

Wahl is pleased to introduce six models to our famous line of Heat Spy® Infrared Thermometers, the **DHS85XL**, **DHS115XL**, **DHS115XEL**, **DHS135XEL**, **DHS215XEL** and the **NEW! DHS235XEL** (see pg 9). These incredibly accurate and robust instruments 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.



DHS85XL

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)
- Ultra low power consumption in shut-down mode

Note: The DHS85XL replaces discontinued model DHS100X and DHS110XL

DHS115XL Model Features

- Used for Short Range: 12:1 (D:S Ratio)
- Temperature Range to 999°F (535°C)
- Easy Aiming
- Quick Response
- Easy location of hot spots
- Ultra low power consumption in shut-down mode

DHS115XEL Model Extended Features

Same great features as the 115XL, *Plus:*

- 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



**DHS115XEL
and DHS115XL**

Note: The DHS115XL and DHS115XEL replace discontinued models DHS100XL, DHS100XEL and DHS110XL.

APPLICATIONS

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



DHS135XEL • DHS215XEL and **NEW! DHS235XEL**



Easy to read digital display on models DHS135 and DHS215 and DHS235.



Model Features

- DHS135XEL**
- High Temperature 1832°F (1000°C)
 - Long Range: 30:1 (D:S Ratio)

- DHS215XEL**
- High Temperature 1832°F (1000°C)
 - Extra Long Range: 50:1 (D:S Ratio)

- NEW! DHS235XEL**
- Extra High Temperature 2732°F (1500°C)
 - Extra Long Range: 50:1 (D:S Ratio)

- All Models offer:
- 10 point memory log that can save current temperature
 - MAX/MIN/AVG/ΔT
 - Electronic Trigger Lock allows continuous readings
 - Ultra low power consumption in shut-down mode

DHS215XEL Model Additional Features

- Type K Thermocouple ANSI mini-connector input for probe to determine emissivity
- Heat Spy® Data Logging Software

DHS215XEL shown with optional TC869 - 45° Spring Articulated Surface Probe, rugged Delrin® handle, ANSI mini-connector and 5-foot flexible compensated cable. For more information on optional probes visit www.palmerwahl.com.

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

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

1-second increments. Temperature data is generated with a date and 24-hour format time stamp in a text file that can be used by programs such as Excel, Access, and Word for further analysis, graphing and report writing.



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**DHS85XL • DHS115XL • DHS115XEL
DHS135XEL • DHS215XEL • DHS235XEL**

Specifications						
Model Number	DHS85XL	DHS115XL	DHS115XEL	DHS135XEL	DHS215XEL	NEW! DHS235XEL
Description	Close Range	Mid Temperature Short Range	Mid Temperature Short Range Extended Features	High Temperature Long Range Extended Features	High Temperature Extra Long Range Extended Features USB, Type K Probe	Extra High Temperature Extra Long Range Extended Features
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	-58° to 2732°F -50° to 1500°C
Distance to Spot Ratio	8:1	12:1		30:1	50:1	
Spectral Range	5 to 14µm	5 to 14µm	5 to 14µm	8 to 14µm	8 to 14µm	8 to 14µm
Emissivity	Fixed at 0.95	Fixed	Adjustable 0.10 to 1.00	Adjustable 0.10 to 1.00		
Accuracy	±2% of reading or 2°C whichever is greater	±5°F (±3°C) from -25° to -4°F (-32° to -20°C) ±3°F (±2°C) from -4° to 212°F (-20° to 100°C)	±5°F (±3°C) from -58° to -4°F (-50° to -20°C) ±3°F (±2°C) from -4° to 212°F (-20° to 100°C) ±2% above 212°F (100°C)			
Repeatability	±2°F (±1°C)	±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)	0.1°F (0.1°C)
Response Time	500 ms.	500 ms.	500 ms.	500 ms.	500 ms.	500 ms.
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	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)	14° to 140°F (-10° to 60°C)
LCD Backlight	Yes	Yes	Yes	Yes	Yes	Yes
Dual Display	NA			Yes	Yes	Yes
°F & °C Selectable	Yes	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	Automatically after approx. 6 seconds
Max/Min/Avg/ΔT	No	No	Yes	Yes	Yes	Yes
Auto Measuring	No	No	Yes	Yes	Yes	Yes
Audible Alarm	No	Yes	Yes	Yes	Yes	Yes
10 Point Memory	No	No	Yes	Yes	Yes	Yes
Electronic Trigger Lock	No	Yes	Yes	Yes	Yes	Yes
Tripod Mount	Yes	No	No	Yes	Yes	Yes
USB Data Output	No	No	No	No	Yes	No
Type K Thermocouple	No	No	No	No	Yes	No
Operating Software	NA				Software Cd Included	NA
Power Supply	9V Battery	9V Battery	9V Battery	9V Battery	9V Battery	9V Battery
Battery Life with Laser Off	16 hrs for continuous operation	15 hrs for continuous operation		15 hrs for continuous operation		
Dimensions	5.9 x 5.2 x 1.8" (150 x 133 x 45mm)	6.8 x 3.6 x 1.8" (173 x 93 x 45mm)		7.9 x 5.0 x 1.9" (200 x 127 x 47mm)		6.7 x 5.2 x 1.8" (200 x 132 x 45mm)
Weight with Battery	4.7 oz (135g)	7.8 oz (220g)		12.7 oz (360g)		11.6 oz (330g)
Included Accessories	User Manual, 9V Battery	User Manual, 9V Battery, Soft Pouch		User Manual, 9V Battery, Carrying Case, and Wrist Strap	User Manual, 9V Battery, Carrying Case, Wrist Strap & Software	User Manual, 9V Battery, Carrying Case, and Wrist Strap
					USB Cable, Type K Probe*	
Optional Accessories	Soft Pouch	No		No	Optional T/C Probes**	No

* Wire Bead thermocouple - 1 meter in length, ** For more information on optional probes visit www.palmerwahl.com.

Specifications are subject to change without notice

NEW! DHS125XEL Hybrid Infrared

The **NEW! DHS125XEL Hybrid Infrared** from Wahl is an intelligent contact and non-contact infrared thermometer which goes beyond the conventional temperature measurement capabilities of other infrared thermometers.

Specifications	
Model Number	DHS125XEL
Temperature Range	-25° to +1400°F (-32° to +760°C)
Distance to Spot Ratio	12:1
Emissivity	Adjustable 0.1 to 1.0
Accuracy	±5°F (±3°C) From -25° to -4°F (-32° to -20°C)
Ambient Operating Temperature of 77°F (25°C)	±3°F (±2°C) From -4° to 212°F (-20° to 100°C) ±2% Above 212°F (100°C)
Repeatability	±1°C (±2°F)
Resolution	0.1°C (0.1°F)
Response Time	500 ms
Operating Temperature	0° to 50°C (32° to 122°F), 10 to 95% RH
Auto Power Off	Automatically after approx. 6 seconds
Spectral Range	5 to 14 µm
eSmart	Yes
Thermocouple Connection (K)	Yes
Thermocouple Range	-200° to 1380°C
Thermocouple Accuracy	±1.5% +1 degree
°F/°C Switchable	Yes
LCD Backlight	Yes
Color Identification Signal	Yes
Laser Sight Switchable	Yes
Audio Alarm	Yes
Dual Display	Yes
Trigger Lock Function	Yes
Max/Min/Avg	Yes
Auto-Measuring	Yes
10 Point Memory	Yes
Tripod Mount	Yes
Power Supply	9V, 006P, IECF22, NEDA1604
Dimensions	7.09 x 5.12 x 1.57 inches (180mm x 130mm x40mm)
Weight	Approximately 6.87 ounces (195 grams)
Included Accessories	User Manual, 9V Battery and Carrying Case
Optional Accessories	see Wahl Heat Prober® Thermocouple probes for surface measuring

Specifications subject to change without notice

Applications

- Electrical Troubleshooting
- Automotive Maintenance
- HVAC Energy Audits
- Food Safety and Processing
- Test Terminals on Circuits
- Maintenance & Inspections

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• **eSmart Technology:** Using an external Type K Thermocouple as a reference, the built-in software determines the emissivity of the target object, and automatically sets the emissivity of the instrument.

• **Color Identification Signal Technology:** Display backlight changes to red when alarm set-points are exceeded.

• **Ultra low power consumption.**

• **Extended time measuring reliability.**

• **Electronic Trigger Lock Function.**

• **Tripod Mount:** For hands free monitoring.



DHS125XEL shown with optional Wahl Heat Prober® TC869 45° Spring Articulated Surface Probe.

For more information on optional probes visit www.palmerwahl.com.



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High Temperature with Bluetooth® and Datalogging

DHS520L High Temperature Infrared with Bluetooth® and Datalogging



The DHS520L features a 2-position trigger which takes and stores temperature readings.

Wahl Heat Spy offers unmatched Accuracy and Reliability

Neutral Density Filters - darken the image to provide better image contrast on bright targets, use two for higher temperature applications.

Model DHS520L1 Includes 1 Dark Glass Eye Protection Filter
Model DHS520L2 includes 2 Dark Glass Eye Protection Filters

Features & Benefits

Standard Bluetooth and USB Connectivity - for communicating straight to a mobile device or PC.

Rugged instrument casing - withstands harsh environments for extended periods. Protected against high temperatures as well as bumps and drops.

Built in Route Mode - Consistently execute pre-configured routes to ensure accurate readings and long term data trending.

Data Logger Software - data trending and analysis to identify on-site trends, improve process efficiency or protect assets and prolong their life cycles.

Internal Data Logging up to 9999 readings and 4 routes - Onboard storage for single handed operation without the need for a separate storage device



The Wahl DHS520L1 and DHS520L2 Series Heat Spy® models are high precision portable infrared thermometers, designed for accurate high temperature measurement in the range of 1022° to 5432°F (550° to 3000°C).

Features include Bluetooth® serial communications, optional data logger software on Mobile Phone or PC/Laptop, precise view of target spot with simultaneous digital display of temperature in the viewfinder, choice of operating and calculating modes, digital output and out of range alarms.

The measured temperature is displayed in four simultaneous modes: continuous, average, max, and min, with user selected mode for the viewfinder display. Temperature measurement resolution to 1°.

Accurate sighting is ensured by the clear, wide angle (9°) field of view and small, clearly defined (1/3°) measurement area. Focusing is variable from 1m to infinity, with close focus options available using auxiliary lenses. Emissivity compensation is provided via the icon-based menu system.

Model Number	DHS520L1	DHS520L2
Neutral Density Filters	1 Filter included	2 Filters included
Temperature Range	1022° to 5432°F (550° to 3000°C)	
Data Storage	Internal storage of up to 9999 readings, including date & time stamp. Also, 4 routes of up to 99 readings per route.	
Software	PC and mobile software for logging, stored data retrieval and route management	
Data Logging	Wireless Bluetooth® or USB connection to PC / Laptop / Mobile with optional Data Logging Software.	
Data Logging Modes	Single, Latch, Burst and Route	
Distance to Spot Ratio	180:1, 4:1 with optional closeup lens	
Spectral Response	1 µm with advance spectral filtering	
Emissivity Adjustment	0.10 to 1.20 in 0.01 step graduations	
Accuracy	< 0.25% (K) of reading	
Repeatability	≤ 1°C / 2°F	
Response Time	30 ms	
Operating Temp Range	32° to 122°F (0° to 50°C)	
Measuring Mode	CONT, AVG, MAX & MIN	
Optical System	9° Field of View with 1/3° (180:1 to 98% measurement energy) area. Eyepiece adjustable: -3.75 to +2.5 diopters	
Focusing Range	39.3" / 1m to infinity, 17.7 to 24.5" / 450 to 620mm with optional 8.5" / 215mm fixed focus close-up lens	
Display Update Time	0.5 seconds	
Output	Bluetooth® or USB	
Power Supply	1 9V Battery or USB	
Dimensions / Weight	8.25 x 2.75 x 5.5 inches (210 x 70 x 140mm) / 0.83kg/1.8lb	
Included Accessories	Dark Glass Eye Protection Filter (L2 - 2 filters); Protective Lens Hood; Lens Cap; USB Cable; Wrist Strap; Battery; Manual	
Optional Accessories	Waterproof Carrying Case; Close-up Lenses; Heat Protection Jacket; Long Eye Relief Eyepiece; Datalogger Software;	

Specifications subject to change without notice

Applications

- Glass: Melt Furnace/Tank, Glass Containers
- Glass Forming: Lamp/ Bulb producers, Pharmaceutical vials, Sealing (auto, comm., residential)
- Steel: Coke Plant, Casting, Rolling Mill, Re-Heat Furnace
- Metal Processing: Forging, Casting, Stamping, Cladding
- Ceramics
- Heat Treatment
- Petro-Chemical
- Refractories
- Semi-Conductors

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PW1230
 02/11 Rev F

NEW! DHS1900 • DHS3000 High Temperature • High Accuracy Infrareads

NEW! Wahl DHS1900 Extra High Temperature & DHS3000 Super High Temperature are hand held infrared thermometers designed specifically for use in the Steel and Aluminum industries. Both models have an RS485 interface and 4-20mA analog signal output through two mini-USB ports below the LCD.

Specifications		
Model Number	DHS1900	DHS3000
	Extra High Temperature	Super High Temperature
Temperature Range	662° to 3452°F 350° to 1900°C	1112° to 5432°F 600° to 3000°C
Spectral Range	1.6µm	1µm
Distance to Spot Ratio	150:1	150:1
Emissivity	0.1 to 1.0 adjustable	
Sighting	Coaxial Optical	
Display Hold	The display holds for 8 seconds after release of trigger	
Accuracy	±1% of reading	
Repeatability	±0.5% of reading	
Resolution	1°F/°C	
Response Time	≤ 200 mS	
Operating Temperature	-0.4° to 140°F (-18° to 60°C)	
Storage Temperature	-0.4° to 140°F (-18° to 60°C)	
LCD Backlight	Yes	
°F & °C Switchable	Yes	
Max/Min/Avg/ΔT	Yes*	
Audible Alarm	High and Low	
Memory	Yes	
Tripod Mount	Yes	
Output	4-20mA; RS485; Mini-USB	
Power Supply	9V (NEDA 1604)	
Battery Life	15 hrs with normal use	
Dimensions	10.3 x 8.4 x 2.6 inches (262 x 213 x 65 mm)	
Weight with Battery	2.05 lbs (930 g)	
Included Accessories	Carrying Case, Dark Glass Eye Protection Filter, 9V Battery, RS485 Cable, PC Cable, and User Manual	

Specifications subject to change without notice



DHS3000 Super High Temperature Infrared

These new models are extremely accurate and reliable, and packed with features making them indispensable for non-contact temperature measurement in a variety of industries.

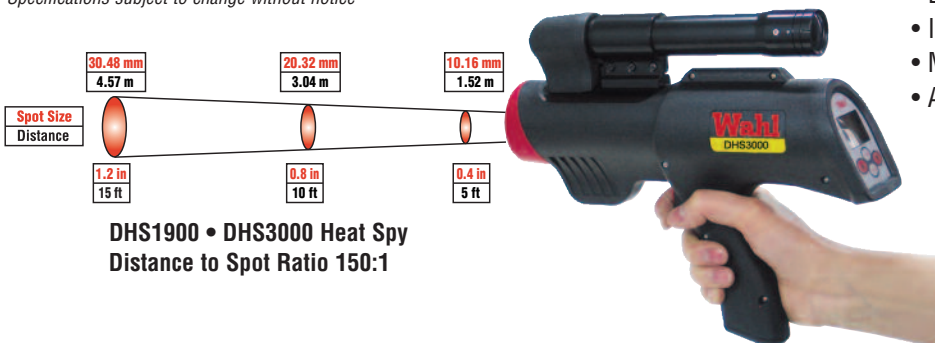
DHS1900 Features

- **Extra High Temperature**
662° to 3452°F (350° to 1900°C)
- **Used for Aluminum Processing**
- Distance to Spot 150:1
- Includes Hi, Low Alarms
- MAX/MIN/AVG/ΔT calculations
- Adjustable Emissivity for better accuracy

DHS3000 Features

- **Super High Temperature**
1112° to 5432°F (600° to 3000°C)
- **Used in the Steel Industry**
- Distance to Spot 150:1
- Includes Hi, Low Alarms
- MAX/MIN/AVG/ΔT calculations
- Adjustable Emissivity for better accuracy

*High Speed Average mode averages over a 1.2 second interval, for use in rapid metal processing applications.



ONE YEAR
1
WARRANTY

Register your product at

NEW! HSA300 Long Distance Portable Thermometer



*HSA300 Long
Distance Infrared*

Wahl HSA300 is an Long Distance Infrared Thermometer which provides a **Distance to Spot of 300:1**. With a 2-inch measurement spot at 50 feet, the telescopic sight allows precise positioning of the measurement spot.

Peak temperature is displayed on the large main display, easing the ability to capture the hot spot. The current temperature is displayed on the smaller secondary display.

HSA300 Features

- **Temperature Range**
-0° to 572°F (-18° to 300°C)
- **Used in the Power Generation & Transmission Industry**
- Distance to Spot 300:1
- Measures accurately at distances from 20 to 50 feet
- MAX/MIN/AVG/ΔT calculations
- Adjustable Emissivity for better accuracy



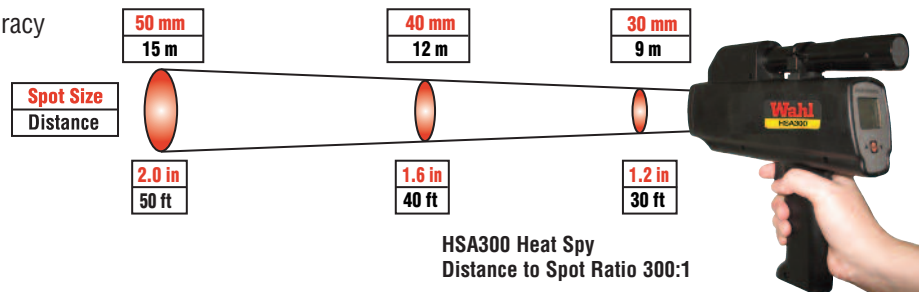
ISO 9001:2008
CERTIFIED QUALITY
MANAGEMENT SYSTEM

PALMER Wahl
INSTRUMENTATION GROUP
Continued Innovation Since 1836
ISO 9001:2008 CERTIFIED

Wahl's Heat Spy® HSA300 Long Distance Infrared Thermometer is used for non-contact temperature measurement and preventive maintenance in the Electrical Power Generation and Power Transmission industries. This model has all the features preferred by maintenance engineers to easily search out hot spots at a safe and convenient distance.

Specifications	
Model Number	HSA300
	Long Distance
Temperature Range	-0° to 572°F -18° to 300°C
Spectral Range	8 to 14µm
Distance to Spot Ratio	300:1
Emissivity	0.4 to 1.0 adjustable
Sighting	Coaxial Optic or Coaxial Laser
Accuracy	± 5°C ≤ 100°C, ± 5 % of Reading within the range of 6 to 15 meters, or 20 to 50 feet
Repeatability	± 2% of Reading
Resolution	1°F/°C
Response Time	< 500 mS
Operating Temperature	-4° to 122°F (-20° to 50°C)
Storage Temperature	32° to 104°F (0° to 40°C)
LCD Backlight	Yes
°F & °C Switchable	Yes
Auto Measuring	Yes
Max/Min/Avg/ΔT	Real Time, Max
Audible Alarm	No
Memory	50 points
Tripod Mount	Yes
Digital Interface	RS232
Milliamps	≤ 60 mA
Power Supply	2 - 9V Batteries
Battery Life	15 hours, with Laser Off
Dimensions	9.64 x 9.44 x 2.36 in (245 x 240 x 60 mm)
Weight with Battery	2.2 lbs (1 kg)
Included Accessories	Carrying Case, 2 - 9V Batteries, and User Manual

Specifications subject to change without notice



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PW1230
02/11 Rev F
Revised 03/15