# 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**

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.

**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

| 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 optional8.5" / 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 x140mm) / 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*

## 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

**TRACEABLE TO NIST**
**IP40 COMPLIANT**
**ONE YEAR 1 WARRANTY**  CE

## 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**

**Register your product at www.palmerwahl.com/register**

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