

WAHL FEVER ALERT THERMOMETER

Screen for possible fever with the **NEW!** Wahl DHS110S Infrared Thermometer!

An early warning device to screen people quickly and easily for possible fever, the Wahl DHS110S Pocket Fever Alert Infrared Thermometer can potentially limit the infectious transmission of disease during an outbreak. The Pocket Fever Alert can be part of a plan to protect the population from a possible pandemic.

Non-intrusive, and non-contact; in less than a second it can detect elevated body temperatures, indicating possible fever. Simply press, scan, and view reading on the large LCD screen. **AUDIBLE** and **VISUAL ALARMS** alert the user if a pre-defined threshold is exceeded.

Affordable and easy to use, the Pocket Fever Alert is a great choice to use when screening the public to potentially minimize the spread of flu in both the workplace and public venues.

SPECIFICATIONS	
Model Number	DHS110S Pocket Fever Alert
Temperature Range	32° to 122°F (0° to 50°C)
Accuracy	±0.5°F (86°F to 108°F) ±0.3°C (30°C to 42°C)
Repeatability	< 0.2°C
Distance to Target Ratio	15:1
Spectrum	7 µm to 18 µm
Resolution	0.1°C or 0.1°F
Backlight	Yes
Display Hold	Yes
MAX	Yes
Alarm Setup	Yes, Audio and Visual
Alarm Response	< 200 ms
High Alarm	Yes, user defined (0.1°C/°F) increments
Environment	0°C ~ 45°F
Measuring Distance	11.81 to 19.68 inches (30 cm ~ 50 cm)
Battery	9V
Weight	< 7.05oz (200g)
Dimensions	6.14 x 2.12 x 1.18 inches (156mm x 54mm x 30mm)
Included Accessories	9V Battery, Carrying Case and Wrist Strap
Optional Accessories	Portable Calibration Black Body

*Specifications subject to change without notice.
Always verify human temperature with a medical thermometer.*



**Backed by Palmer Wahl's
Service and Warranty!**



Wahl Pocket
Infrared
Thermometer
DHS110S
with wrist strap

DHS110S Features

- **AUDIBLE** and **VISUAL** Alarms alert when pre-defined threshold is exceeded
- Non-contact skin temperature measurement
- Quick & easy screening
- Large, Easy-To-Read LCD Digits with Switch on Back Light for Low Light Conditions
- Low-Drain Battery Operation with Low Battery Indicator
- Display Hold of Last Reading for 6 Seconds
- Optional Black Body (shown right) verifies accuracy of the imager



Calibration Services Available

PALMER Wahl
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ISO9001:2000 CERTIFIED

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08/09 Rev B

WAHL FEVER ALERT IMAGER

Screen for possible fever with the **NEW!** Wahl HSI1500S Thermal Imager!

An early warning system to screen people in "real time", the Wahl HSI1500S Portable Fever Alert Imager uses the latest advances in hand held thermal imaging technology to quickly and accurately detect elevated body temperatures for possible fever. In less than a second it indicates with both **AUDIBLE** and **VISUAL ALARMS** when the pre-defined threshold is exceeded. The Portable Fever Alert takes both thermal and digital pictures of the subject, and can utilize digital/thermal/mixed image fusion (100%-75%-50%-25%-0%) to allow for quick identification and evaluation with no delay processing people past the system. Camera contains an LED light for digital camera use in poorly lit areas. Affordable and easy to use, the Portable Fever Alert is the best choice to use to potentially minimize the spread of flu.



Wahl Portable Thermal Imager HSI1500S with Detachable Handle

SPECIFICATIONS	
Model Number	HSI1500S Portable Fever Alert
Measurement Range	32° to 122°F (0° to 50°C)
Field of View	20° x 20°
Focal Range	0.5m to infinity
Frame Rate	8Hz
Spectral Response	8 μm to 14 μm
Thermal Sensitivity	~0.3°C @ 30°C
Detector	47 x 47 pixel array with 2,200 pixels
Image Storage	Up to 2000 images on supplied SD Card
Image Display	3-1/2" color LCD with LED Backlight and 8 color palettes. Image Fusion of Thermal and Visual
Radiometry	Dual Temperature Measurement Cursors, moveable anywhere in the image, plus Differential Measurement
Emissivity	User selectable 0.2 to 1.0 in steps of 0.01 with reflected ambient temperature compensation.
Accuracy	The greater of ±2°C or ±2% of reading in °C
Operating Range	23° to 113°F (-5° to +45°C)
Storage Range	-4° to 140°F (-20° to +60°C)
IP Rating	IP54
Humidity	10% to 90% non-condensing
Power	Lithium field rechargeable batteries with up to 6 hours continuous operation, AC Adapter included
Housing	Impact Resistant Plastic with over molded rubber, Detachable Handle and Tripod Mount
Interfaces	USB Type B
Dimensions	5.11 x 3.74 x 3.54 inches (130mm x 95mm x 90mm) w/o handle
Weight (with Battery)	< 1.54 lbs (0.70kg)
Mounting	Hand Held & Tripod Mounting (1/4" BSW)
Included Accessories	Carrying Case, Detachable Handle, Wrist Strap, Battery, AC Adapter, User Manual, Operating Software CD, USB Cable and Mini SD Card
Optional Accessories	Portable Black Body, Desktop Charger, Display Sun Shade

Hot & Cold Temperatures and Differential

Microphone for Voice Annotations

6 hour battery life

Speaker



Function Keys

Navigation Buttons

Power Button

- Non-contact skin temperature measurement
- Optional Black Body (shown right) verifies accuracy of the imager



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Always verify human temperature with a medical thermometer.

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HIGH RESOLUTION FEVER ALERT SYSTEM

Screen for possible fever with the Wahl HSI2500S Thermal Imaging System!

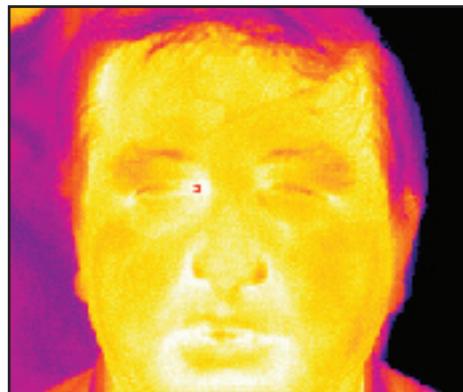


Wahl
High Resolution Thermal Imager
HSI2500S

The Wahl HSI2500S High Resolution Fever Alert camera is an early warning detection system to screen people or groups of people for elevated body temperature in "real time". It offers unmatched image sensitivity and clarity in a 320 x 240 radiometric imager.

The HSI2500S has *FDA 501(K) Clearance*, and is a highly reliable and accurate screening system. In less than a second it will determine if a pre-defined threshold has been exceeded, and indicate with both AUDIBLE and VISUAL ALARMS, signifying possible fever in humans. A Black Body reference is also used to regularly verify the accuracy of the imager.

The HSI2500S can be used as part of a plan to minimize the spread of flu, and potentially limit the infectious transmission of disease in both the workplace and public facilities.



The HSI2500S High Resolution thermal imaging camera has the best thermal sensitivity on the market.

SPECIFICATIONS	
Model Number	HSI2500S High Resolution Fever Alert
Operating Temperature Range	-4° to 122°F (-20° to 50°C)
Resolution / Detector	320 x 240 pixel Microbolometer (UFPA VOX)
Thermal Sensitivity	0.038°C @ 25°C
Field of View / Lens	36° x 27° / 25mm
Instantaneous Field of View	1.13 mrad
Spectral Response	7 µm to 14 µm
Image Update Frequency	9 Hz
Minimum Focusing Distance	4 in. to infinity
Focus Adjustment	Manual
Temperature Dynamic Range	16 bits
Accuracy	+2°C or +2%
Storage Temperature	-40° to 158°F (-40° to 70°C)
Environmental Protection	IP54
Shock	30g
Vibration	3g
Palettes	7 color palettes and grayscale
Power	1 watt input powered by computer USB connection
Camera Dimensions	2.1 x 3.2 x 0.5 inches (53mm x 81mm x 13mm)
Weight (with Lens)	5.2 oz (148kg) with lens
Data Interface / Outputs	USB2

Specifications subject to change without notice.
Always verify human temperature with a medical thermometer.

HSI2500S Features

- Less than a second to take a temperature reading, thus no delay processing people past the system
- Non-contact skin temperature measurement
- Quick & easy screening
- Black Body verifies the accuracy of the imager

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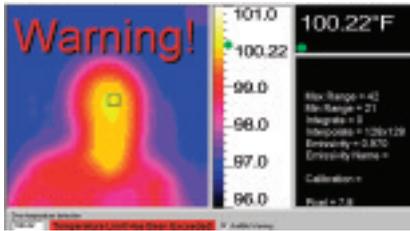
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08/09 Rev B

WAHL FEVER ALERT SYSTEMS

Screen for possible fever with the Wahl Low Resolution Thermal Imaging System!

An early warning system to screen people in "real time", the Wahl HSI2000S & HSI1000S Low Resolution Fever Alert Imaging Systems quickly and accurately detect elevated body temperatures. In less than a second the Fever Alert will automatically detect the highest temperature in an image, and alert you with both AUDIBLE and VISUAL ALARMS (through the PC speaker) when the pre-defined threshold is exceeded; indicating possible fever in humans. A Black Body reference is also used to regularly verify the accuracy of the imager.



Affordable and easy to use, the Wahl Fever Alert System is the best choice as part of a prevention plan to screen people or large groups of people, and possibly minimize the spread of flu.



Wahl
HSI1000S



Wahl
HSI2000S

SPECIFICATIONS		
Model Number	HSI1000S Fever Alert	HSI2000S Fever Alert
Temperature Range	32° to 122°F (0° to 50°C)	
Accuracy	±2°C from 68° to 122°F (20° to 50°C) over the environmental temperature operating range of 68° to 95°F (20°C to 35°C) ±5°C, ±5% from 14° to 302°F (-10° to 150°C) over the full environmental temperature operating range of 23° to 122°F (-5 to +50°C)	
Field of View	20° x 20°	
Spectral Response	8 µm to 14 µm	
Temperature Sensitivity	~ 0.5°C @ 30°C	
Temperature Readout	All 256 pixels via RS232	
Detector	16 x 16 pixel array	
Frame Rate	8 Hz	
Interface	RS232 (2m Cable standard)	
Imager Power Supply	12 VDC @ 300mA	
Operating Temperature	23° to 122°F (-5° to +50°C)	
Storage Temperature	-4° to 176°F (-20° to +80°C)	
Humidity	10% to 100% non condensing	
CE	Yes, complies with EMC directive	
Housing	Impact Resistant Plastic	Die-cast Aluminum
Mounting	Mounting brackets supplied	
Dimensions	4.72 x 4.92 x 3.14 inches (120 x 125 x 80 mm)	3.93 x 4.33 x 2.36 inches (100mm x 110mm x 60mm)
Weight	21 ounces (≤0.6kg)	25 ounces (≤0.7kg)
Included in Shipping	Connection Cable for RS232 and Power, 12V Power Supply	
Computer Requirements	IBM compatible PC with a minimum of 32 Mb Ram; 300 MHz Processor; Windows 98, NT, or 2000; RS232 Serial Port (115K Band); 24 bit color graphic capability.	

Specifications subject to change without notice.
Always verify human temperature with a medical thermometer.

HSI2000S Features

- 3 Display Palettes: Ironbow, Rainbow and Grayscale
- Readout in °F or °C
- HSI1000S - impact resistant plastic
HSI2000S - die-cast aluminum
- Offset control (range) and Emissivity values
- User selectable sensitivity settings
- Image integration from 1 to 10 frames
- Less than a second to take a temperature reading, thus no delay processing people past the system
- Non-threatening - Non-contact:
 - Measures the temperature coming off a surface - no contact with subject
 - No lasers are used
- Black Body verifies the accuracy of the imager

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08/09 Rev B

Wahl Heat Spy® HSICBB-P Portable Calibration Black Body • NIST Traceable

Do-It-Yourself Infrared Verification



The Wahl HSICBB-P Calibration Black Body is a portable ambient temperature black body used for single point calibration verification and checking of Thermal Imaging Cameras and Point Infrareads.

With an accuracy of $\pm 0.3^{\circ}\text{F}$ (0.2°C) over the entire range, it is the most reliable way to confirm the accuracy of your instruments in house and in the field.

Affordable and easy to use, simply turn the instrument on and choose either $^{\circ}\text{F}$ or $^{\circ}\text{C}$. Set your thermal imaging camera or infrared thermometer to the correct emissivity, aim at the target area, and compare readings. The result will confirm that your unit is within tolerance, and you can calculate the correction for zero error.

- Fast
- Accurate
- Lightweight
- Portable
- Easy to Use
- $^{\circ}\text{F}$ or $^{\circ}\text{C}$



Housed in a watertight IP67 carrying case, the Portable Calibration Black Body is lightweight, portable, and easy to use. It provides all your infrared instruments with the traceability needed to maintain your quality control system.



HSICBB-P Portable Black Body Specifications	
Radiator	3" diameter concentric rings with integral 4-wire RTD sensor
Meter	4-wire RTD thermometer
Operating Range	-40° to 158°F (-40° to 70°C)
System Accuracy	$\pm 0.3^{\circ}\text{F}$ or $\pm 0.2^{\circ}\text{C}$ over entire range
Scale	$^{\circ}\text{F}$ or $^{\circ}\text{C}$ user selectable
Display	4-digit 1" high LCD
Display Resolution	0.1°
Display Update Rate	10 seconds
Repeatability	0.1° F or C
Heating Method	None, assumes the ambient temperature
Emissivity	0.95
Power	1-3.6 Volt Lithium Thionyl Chloride Battery, size "C"
Battery Life	3 year minimum, with "Low Bat" indicator*
Case	Pelican® 1150
Case Rating	IP67 (1 meter submersion for 30 minutes with case closed)
Size / Weight	9.12" x 7.56" x 4.32" (23.2 x 19.2 x 11.1 cm) 2.85 lbs. (1.29 kg)
Included	NIST Traceable Report of Calibration, User Manual

Turning off unit when not in use will extend battery life.

Specifications subject to change without notice

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