

### Heat Spy® Imager HSI250 Thermal Imaging Camera

The Heat Spy® Imager HSI250 is a handheld thermography camera ideally suited for variety of applications. The high resolution camera offers a superior 160 x 120 detector compared to the typical 80 x 60 detector units in this class.

This model is best for:

- Quick scans of electrical components in industrial plants.
- Checking for overheating electric motor and pump bearing housings.
- Scans for home inspectors and real estate agents looking for energy leaks, missing insulation, water leaks, and overheating circuit breakers.
- Quick scans of heating and AC ducts by HVAC service people, looking for duct joint leaks.
- Scans by automotive technicians looking for clogged tubing in radiators, overheating water pump, alternator, and AC compressor bearings, overheating wheel bearings.
- Looking for even temperature distribution in AC and defroster outlets *and many more.*

#### HSI250 Key Functions

**Thermography:** Device detects and displays real-time infrared temperature on the LCD screen.

**Data Storage:** Device stores individual captured images on an included 8GB Micro SD Card.

**Image Displays:** Live images and saved images can be displayed on the screen in thermal only.

**Palettes:** Device will display in two color and two black & white (gray-scale) palettes.

**Laser Pointer:** To properly aim at the selected target of choice designated by the center of screen cursor. Class II Laser, < 1mW.

#### HSI250 Specifications

THERMAL MODULE	
Image Sensor	Uncooled focal plane array
Array Size / Image Resolution	160 x 120 array / 19,200 Pixels
Frame Rate	9 Hz
Pixel Pitch	17µm
Spectral Range	8µm to 14µm
NETD (Sensitivity)	< 40 mk (@ 25° C)
Field of View	37.5° x 28.5°
Focal Length	3.1 mm
I FOV (mrad)	5.48 mrad
Aperture	f/1.1
Fixed Focus	Minimum Focus Distance ≥ 150mm

Specifications continued on next page



#### HSI250 Key Features

- 160 x 120 Resolution (Thermal)
- Display: 320 x 240 Resolution 2.4" LCD
- NETD < 40mk
- Built-In Rechargeable Li-ion Battery with up to 8 Hours Continuous Run Time Per Full Charge
- IP54 Protection

**IP54**  
COMPLIANT

**ISO 9001:2015**  
CERTIFIED QUALITY  
MANAGEMENT SYSTEM

**TWO YEAR**  
**2**  
WARRANTY

**TEN YEAR**  
**10**  
WARRANTY

Camera Thermal Array

Specifications subject to change without notice. Heat Spy is a registered trademark of Wahl Instruments, Inc.

## HSI250 Specifications continued

IMAGE DISPLAY	
<b>LCD Display Screen</b>	320 × 240 Resolution 2.4" LCD Display
<b>Palettes</b>	Black Hot, White Hot, Rainbow, Ironbow
THERMOGRAPHY	
<b>Rules/Measurement Points</b>	Center Point Cursor, Moving / Seeking Max & Min Point Cursors
<b>Temperature Ranges</b>	-4° to 302°F / -20° to 150°C / 253 to 423K Low Range & 212° to 1022°F / 100° to 550°C / 373 to 823K High Range
<b>Temperature Accuracy</b>	± 2°C or ± 2%, whichever is greater
<b>Thermography Distance</b>	D:S = 75:1
BATTERY	
<b>Battery Type</b>	Built-In Rechargeable Lithium-ion Battery
<b>Battery Run Time</b>	Eight Hours Continuous Running
FUNCTIONS	
<b>Aiming Laser</b>	For Measuring Point Selection, Screen Aiming Point is Center Point Cursor
<b>Memory Storage</b>	8GB Micro SD Memory Card included. Will Accept Higher Level Memory Cards
<b>Individual Images</b>	Thermal Only, With Three Temperatures, JPEG format
<b>Language</b>	English
GENERAL	
<b>Power</b>	3.7 VDC / 0.4 A (charging via USB with battery in Imager)
<b>Power Consumption</b>	Less than 1.2 W
<b>Hardware Interface</b>	Through Micro USB
<b>Ambient Working Temperature</b>	14° to 122° F (-10° to 50° C)
<b>Protection Level</b>	IP54
<b>Drop Test Height</b>	2 Meters (6.56 ft)
<b>Dimensions</b>	7.7" x 4.6" x 2.3" (195 mm x 117 mm x 59 mm)
<b>Weight</b>	Approximately 0.77 lb (0.35 kg)
<b>Included Accessories</b>	Foam-Lined Storage Box; Built-in Rechargeable Lithium-Ion Battery; Battery Charger with Worldwide Plug Adapters; 8GB Micro SD Memory Card and USB Adapter; USB Cable; Wrist Strap and User Manual (Expanded User Manual available as Download)
<b>Optional Accessories</b>	Black Soft Zippered Pouch with D-ring/Belt Clip and Logo Carabiner, Top: 5.5" (139.7mm), Bottom: 3" (76.2mm), Long: 9.6" (243.84mm); Logo Neck Strap, 3/4" (19.05mm) Wide, 36" (914.4mm) Long with Detachable Connection Loop.

### Optional Accessories:

#### Zippered Pouch with Logo Carabiner

Keep your HSI250 handy with our black canvas carrying case which includes a D-ring belt clip and Wahl Heat Spy logo carabiner. Easily clips on your belt or anywhere else.

This durable zippered pouch fits the HSI250 and other model thermal imagers or infrareds.

Dimensions: Top: 5.5" (139.7mm), Bottom: 3" (76.2mm), Long: 9.6" (243.84mm)

**12449-37** Zippered Pouch with Wahl Logo Carabiner



#### Wahl Logo Neck Strap

Another handy option is the Wahl Logo Neck Strap with Detachable Connection Loop. Keep your camera ready all the time.

Dimensions: 3/4" (19.05mm) Wide, 36" (914.4mm) Long.



**12449-35** Wahl Logo Neck Strap

**IP54**  
COMPLIANT

**TWO YEAR**  
**2**  
WARRANTY

Camera

**TEN YEAR**  
**10**  
WARRANTY

Array

**ISO 9001:2015**  
CERTIFIED QUALITY  
MANAGEMENT SYSTEM