

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	
LCD Display Screen	320 × 240 Resolution 2.4" LCD Display
Palettes	Black Hot, White Hot, Rainbow, Ironbow
THERMOGRAPHY	
Rules/Measurement Points	Center Point Cursor, Moving / Seeking Max & Min Point Cursors
Temperature Ranges	-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
Temperature Accuracy	± 2°C or ± 2%, whichever is greater
Thermography Distance	D:S = 75:1
BATTERY	
Battery Type	Built-In Rechargeable Lithium-ion Battery
Battery Run Time	Eight Hours Continuous Running
FUNCTIONS	
Aiming Laser	For Measuring Point Selection, Screen Aiming Point is Center Point Cursor
Memory Storage	8GB Micro SD Memory Card included. Will Accept Higher Level Memory Cards
Individual Images	Thermal Only, With Three Temperatures, JPEG format
Language	English
GENERAL	
Power	3.7 VDC / 0.4 A (charging via USB with battery in Imager)
Power Consumption	Less than 1.2 W
Hardware Interface	Through Micro USB
Ambient Working Temperature	14° to 122° F (-10° to 50° C)
Protection Level	IP54
Drop Test Height	2 Meters (6.56 ft)
Dimensions	7.7" x 4.6" x 2.3" (195 mm x 117 mm x 59 mm)
Weight	Approximately 0.77 lb (0.35 kg)
Included Accessories	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)
Optional Accessories	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
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Array

ISO 9001:2015
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