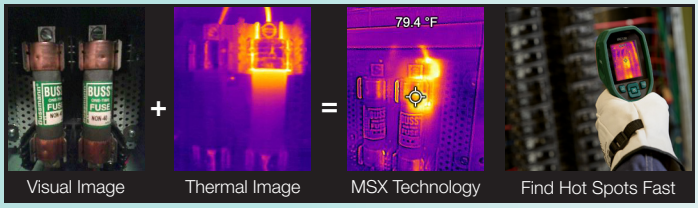
EXTECH®

PRODUCT DATASHEET

IRC130 Thermal Imager
IR Thermometer with MSX®



Designed with MSX technology that adds details to thermal images for greater clarity.

Applications: Detect hot spots, avoid electrical and mechanical failures, locate water damage sources, find missing insulation and leaky air ducts, and troubleshoot automotive repairs.

Detect what no eye can see, the Extech IRC130 gives you the whole picture having dual cameras, visual and visual/thermal (MSX), combined with an IR Thermometer! Store up to 50,000 JPEG files that can be easily transferred via USB interface. It also has a built-in LED flashlight and a unique coaxial distance-to-spot guidance laser. This is a must have powerful diagnosing tool!

Features

- Large 2.4" TFT color display (320 x 240 pixels) with intuitive easy-to-navigate menu in 22 languages
- Designed with integrated true thermal imager (80 x 60 pixels) to detect what your eyes can't see
- Patented MSX technology adds visible light details to thermal images in real time for greater clarity without diluting the image or decreasing thermal transparency
- Measure temperature up to 1202°F (650°C)
- High accuracy with adjustable emissivity
- Unique coaxial laser allows for locating hot or cold spots that may indicate potential issues
- 30:1 distance to spot (target) ratio
- Capture and store up to 50,000 MSX thermal and Visual images in JPG format
- USB interface for transferring images
- Fast 150 ms response time for real-time temperature updates with continuous scanning
- Bright LED flashlight
- Standard UNC 1/4"-20 accessory mount
- Rugged design with dust and water protection (IP54 rating) and 2-meter drop tested
- Adjustable Auto Power Off (APO) timer
- Low battery indicator
- Complete with integrated 3.6 V rechargeable Lithium Ion battery, USB cable, lanyard, and pouch with convenient belt loop and shoulder strap

See next page for product specifications and ordering information

IP54 Splashproof Dustproof

IRC130 UPC Code: 793950401316

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Specifications	
Temperature range	-13 to 1202°F (-25 to 650°C)
Basic accuracy	±1% of reading or ±1°C (2°F), whichever is greater
Image storage capacity	50,000 JPEG images (with spot temperature metadata tag)
Emissivity	0.10 to 0.99 (adjustable) and 3 presets
Response time	150 ms
Imaging and Optical Specifications	
IR Resolution	80 x 60 (4800 pixels)
Digital Camera Resolution	2 MP (megapixels)
Thermal Sensitivity /NETD	< 70 mK
Field of View (FOV)	51° x 66 (H x W)°
Minimum focus distance	0.3 m (0.89 ft.)
Distance to Target	30:1
Dual range operation	Range 1: < 752°F (400°C) Range 2: > 752°F (400°C) - For Range 2, the high temperature lever must be engaged
Focus	Fixed
Image frequency	8.7 Hz
Focal plane array/ Spectral response range	Uncooled microbolometer/7.5 ~ 14 µm
Image Presentation Specifications	
Display resolution	320 x 240 pixels
Screen size	2.4" (61 mm) - portrait
Viewing angle	80°
Display type	TFT technology
Image modes	Visual and Visual/Thermal MSX (Multi-Spectral Dynamic) images
Color display palettes	Iron, Rainbow, White-hot, Black-hot, Arctic, and Lava
Image gallery	Yes
Additional Information	
IP rating	IP54 (IEC 60529)
Drop tested	~6.5 ft (2 m)
Accessory mount	UNC 1/4"-20
Power	Internal rechargeable battery (3.6 V Lithium Ion)
Dimensions/Weight	8.3 x 2.5 x 3.2" (210 x 64 x 81 mm)/13.9 oz (394 g)

For full specifications, please visit www.extech.com/IRC130 and refer to the product manual.

Ordering

IRC130..... Thermal Imager IR Thermometer with MSX® and Coaxial Laser

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