

SPECIFICATIONS

OVERVIEW

Accuracy	$\pm 2^{\circ}\text{C}$ ($\pm 3.6^{\circ}\text{F}$) or $\pm 2\%$ of reading, for ambient temperature 10°C to 35°C (50°F to 95°F) and object temperature above 0°C (32°F)
Detector Type	Uncooled microbolometer
Field of view (FOV)	$45^{\circ} \times 34^{\circ}$
IR Resolution	320×240 pixels
List of Contents	•Infrared camera •Hard transport case •Battery (inside camera) •USB cable •Power supply/charger with EU, UK, US and Australian plugs •Printed documentation
Multi Spectral Dynamic Imaging (MSX)	IR image enhanced with visible camera detail
Object Temperature Range	-20°C to 550°C (-4°F to 1022°F) in two ranges
Packaging Size	$385 \times 165 \times 315$ mm ($15.2 \times 6.5 \times 12.4$ in)
Thermal Sensitivity/NETD	$<0.05^{\circ}\text{C}$ (0.09°F) / <50 mK

COMPLIANCE & CERTIFICATIONS

Certifications	UL, CSA, CE, PSE and CCC
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CONNECTIONS & COMMUNICATIONS

AC Operation	AC adapter, 90–260 VAC input, 5 VDC output to camera
Interface	USB Micro: Data transfer to and from PC and Mac device
WiFi	•Standard: 802.11 b/g/n •Frequency range: •2400–2480 MHz •5150–5260 MHz •Max. output power: 15 dBm

ENVIRONMENTAL

EMC	•WEEE 2012/19/EC •RoHS 2011/65/EC •C-Tick •EN 61000-6-3 •EN 61000-6-2 •FCC 47 CFR Part 15 Class B
Humidity (Operating and Storage)	IEC 60068-2-30/24 h 95% relative humidity
Operating Temperature Range	-15°C to 50°C ($+5^{\circ}\text{F}$ to 122°F)
Radio Spectrum	•Standard: 802.11 b/g/n •Frequency range: •2400–2480 MHz •5150–5260 MHz •Max. output power: 15 dBm
Shock	25 g (IEC 60068-2-27)

Storage Temperature Range -40°C to 70°C (-40°F to 158°F)

Vibration 2 g (IEC 60068-2-6)

Emissivity table/correction Emissivity table of predefined materials/variable from 0.1 to 1.0

Encapsulation/Drop IP 54 (IEC 60529)/2m (6.6 ft.)

IMAGING & OPTICAL

Color Black and gray

Color palettes Black & white, iron, and rainbow

f-number 1.5

Focus Focus free

Image Adjustment Automatic adjust/lock image

Image Frequency 9 Hz

Image Modes Thermal MSX, Thermal, Picture-in-Picture, Thermal blending, Digital camera.

Minimum Focus Distance 0.5 m (1.6 ft.)

Picture-in-Picture IR area on visual image

Spatial resolution (IFOV) 2.6 mrad

Spectral Range 7.5–13 μm

Digital Camera Resolution/FOV 640 × 480/55° × 43°

MEASUREMENT & ANALYSIS

Isotherm Above alarm, below alarm

Reflected apparent temperature correction Automatic, based on input of reflected temperature

Set-up Commands Local adaptation of units, language, date and time formats

Spot Meter Center spot; box with min./max.

Spotmeter and Area Center spot; box with min./max.

METER DATA

Camera size (L x W x H) 244 × 95 × 140 mm (9.6 × 3.7 × 5.5 in)

Camera weight incl battery 0.575 kg (1.27 lb.)

Display 3.0 in. 320 × 240 color LCD

POWER

Charging system Battery is charged inside the camera or in specific charger.

Charging Time 2.5 hours to 90% capacity in camera. 2 hours in charger.

Power Management Automatic shut-down

Battery type & operating time Rechargeable 3.6 V Li ion battery; approx. 4 hours typical use

STORAGE MEDIA

File Formats Standard JPEG, 14-bit measurement data included