

## SPECIFICATIONS

### OVERVIEW

<b>Accuracy</b>	$\pm 2^{\circ}\text{C}$ ( $\pm 3.6^{\circ}\text{F}$ ) or $\pm 2\%$ of reading, for ambient temperature $10^{\circ}\text{C}$ to $35^{\circ}\text{C}$ ( $50^{\circ}\text{F}$ to $95^{\circ}\text{F}$ ) and object temperature above $0^{\circ}\text{C}$ ( $32^{\circ}\text{F}$ )
<b>Detector Type</b>	Uncooled microbolometer
<b>Field of view (FOV)</b>	$45^{\circ} \times 34^{\circ}$
<b>IR Resolution</b>	$160 \times 120$ pixels
<b>List of Contents</b>	•Infrared camera •Hard transport case •Battery (inside camera) •USB cable •Power supply/charger with EU, UK, US and Australian plugs •Printed documentation
<b>Multi Spectral Dynamic Imaging (MSX)</b>	IR image enhanced with visible camera detail
<b>Object Temperature Range</b>	$-20^{\circ}\text{C}$ to $400^{\circ}\text{C}$ ( $-4^{\circ}\text{F}$ to $752^{\circ}\text{F}$ ) in two ranges
<b>Packaging Size</b>	$385 \times 165 \times 315$ mm ( $15.2 \times 6.5 \times 12.4$ in)
<b>Thermal Sensitivity/NETD</b>	$<0.10^{\circ}\text{C}$ ( $0.27^{\circ}\text{F}$ ) / $<100$ mK

### COMPLIANCE & CERTIFICATIONS

<b>Certifications</b>	UL, CSA, CE, PSE and CCC
-----------------------	--------------------------

### CONNECTIONS & COMMUNICATIONS

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

### ENVIRONMENTAL

<b>EMC</b>	•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
<b>Humidity (Operating and Storage)</b>	IEC 60068-2-30/24 h 95% relative humidity

**Operating Temperature Range** -15°C to 50°C (+5°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)

**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)** 5.2 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