



English

**Product Datasheet**

**Stock No: 179-9511**

**Thermal Imager**



## Specifications

### Imaging And Optical Data

Field of view (FOV) / Minimum focus distance	29.8°x 22.6°/ 0.2 m
Spatial resolution (IFOV)	3.33 mrad
Thermal sensitivity/NETD	< 0.08°C @ +30°C (+86°F) / 80 mK
Image frequency	50 Hz
Focus mode	Manual
Zoom	1–20 × continuous, digital zoom
Rotate	0°– 360°, continuous increased by 1°
Focal length	7.5 mm
Focal Plane Array (FPA)/ Spectral range	Uncooled microbolometer / 8–14 μm
IR resolution	160 × 120 pixels

### Image Presentation

Display	Capacitive Touch screen, 3.5 in. LCD, 320 × 240 pixels
Image modes	IR image, visual image, picture in picture, Image Fusion
Picture in Picture	IR area on visual image or visual image area on IR
Color palettes	GRAY/GRAYINV IRON/IRONINV/RAINBOW/FEATHER

### Measurement

Object temperature range	–20°C to +150°C (–4°F to +302°F)
	0°C to +400°C (+32°F to +752°F)
Accuracy	±2°C (±3.6°F) or ±2% of reading

## Measurement Analysis

Spot	3
Line	2 lines(horizontal and vertical)
Area	3 boxes with max. /min. /average
Automatic hot /cold detection	Auto hot or cold markers
Isotherm	Detect high/low temperature/interval
Emissivity correction	Variable from 0.01 to 1.0
Measurement corrections	Emissivity, ambient temperature, distance, relative humidity, offset temperature

## Storage Of Videos

Storage media	4 GB Micro SD card
Video storage format	Standard MPEG-4, 640 x 480@30 fps, on memory card > 60 minutes
Video storage mode	IR/visual images; simultaneous storage of IR and visual images

## Storage Of Images

Image storage format	Standard JPEG, including measurement data, on memory card > 1000 pictures
Image storage mode	IR/visual images; simultaneous storage of IR and visual images

## Set-Up

laser	< class2
Set-up commands	Local adaptation of units, language, date and time formats, information of camera
Languages	multinational

## Digital Camera

Built-in digital camera	640 x 480 pixels
Built-in digital lens data	FOV 62.3°

## Data Communication Interfaces

Interfaces	USB-mini, audio, composite video, Micro SD slot
USB	Data transform between camera and PC
Video out	Composite(PAL and NTSC)

## Power System

Battery	Lithium polymer battery, 4.5 hours operating time
Input voltage	DC 9 V to 12 V
Charging system	In camera (AC adapter)
Power management	Automatic shutdown and sleep mode (user selectable)

## Environmental Data

Operating temperature range	-20°C to +50°C (-4°F to +122°F)
Storage temperature range	-40°C to +70°C (-40°F to +158°F)
Humidity (operating and storage)	10% ~ 90%
Encapsulation	IP65
Drop test	2 m
Bump	25 g (IEC60068-2-29)
Vibration	2 g (IEC60068-2-6)

## Physical Data

Camera weight, incl. battery	920 g
Camera size (L × W × H)	243 x 103 x 160