



## Product Datasheet

English

### Stock No:



179-9514

188-7475

179-9511

193-8050

193-8051

194-1035

194-1036

RS PRO 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 |

## Compatible Battery

|                  |                  |
|------------------|------------------|
| RS Stock No:     | 236-3499         |
| Typical Capacity | 2700mAh, 19.98Wh |