

## Detailed specifications

| TiS   |   |
|---|---|
| <b>Temperature</b>  |   |
| Temperature measurement range (not calibrated below -10 °C) | -20 °C to +100 °C (-4 °F to +212 °F)  |
| Temperature measurement accuracy                            | ± 5 °C or 5 % (at 25 °C nominal, whichever is greater)  |
| <b>Imaging performance</b>                                  |   |
| Image capture frequency                                     | 9 Hz refresh rate   |
| Detector type   | 120 X 120 Focal Plane Array, uncooled microbolometer  |
| Thermal sensitivity (NETD)                                  | ≤ 0.1 °C at 30 °C target temp. (100 mK)   |
| Infrared spectral band                                      | 7.5 μm to 14 μm (long wave)   |
| Standard infrared lens type                                 | Field of view: 17° x 17°  |
|   | Spatial resolution: (IFOV) 2.50 mRad  |
|   | Minimum focus distance: 15 cm (approx. 6 in)  |
| Focus mechanism   | Versatile, one-handed manual focus  |
| <b>Image presentation</b>                                   |   |
| Palettes  | Ironbow, Blue-Red, Grayscale  |
| Level and span  | Smooth auto-scaling and lock of level and span  |
| Minimum span (in auto mode)                                 | 5 °C (9 °F)   |
| Image capture, review, save mechanism                       | One-handed image capture, review, and save capability   |
| Storage medium  | SD Memory Card (2 GB memory card will store at least 1200 fully radiometric (.is2) IR images annotations, or 3000 basic bitmap (.bmp) images, transferrable to PC via included multi-format USB card reader |
| File formats  | Non-radiometric (.bmp) or fully-radiometric (.is2)  |
|   | No analysis software required for non-radiometric bitmap (.bmp) files   |
| Export file formats w/SmartView® software                   | BMP, DIB, GIF, JPE, JFIF, JPEG, JPG, PNG, TIF, and TIFF   |
| Memory review   | Sequential image navigation and review  |

## General specifications

|                                      |   |
|--------------------------------------|---|
| <b>Operating temperature</b>         | -10 °C to +50 °C (14 °F to 122 °F)  |
| <b>Storage temperature</b>           | -20 °C to +50 °C (-4 °F to 122 °F) without batteries  |
| <b>Relative humidity</b>             | 10 % to 95 % non-condensing   |
| <b>Display</b>                       | 9.3 cm (3.7 in)   |
| <b>Controls and adjustments</b>      | User selectable temperature scale (°C/°F)   |
|                                      | Language selection  |
|                                      | Time/Date set   |
|                                      | User selectable backlight: "Full Bright" or "Auto"  |
| <b>Software</b>                      | SmartView® full analysis and reporting software included  |
| <b>Batteries</b>                     | Internal rechargeable battery pack (included)   |
| <b>Battery life</b>                  | Three to four hours continuous use (assumes 50 % brightness of LCD)   |
| <b>Battery charge time</b>           | 2.5 hours to full charge  |
| <b>AC battery charging</b>           | AC adapter/charger (110 V ac to 220 V ac, 50/60 Hz) (included), charges battery while imager is operating or turned off, ac mains adapters included   |
| <b>AC operation</b>                  | AC operation with included power supply (110 V ac to 220 V ac, 50/60 Hz), ac mains adapters included  |
| <b>Power saving</b>                  | Sleep mode activated after five minutes of inactivity, automatic power off after 30 minutes of inactivity   |
| <b>Safety standards</b>              | CSA (US and CAN): C22.2 No. 61010-1-04, UL: UL STD 61010-1 (2nd Edition), ISA: 82.02.01   |
| <b>Electromagnetic compatibility</b> | Meets all applicable requirements in EN61326-1:2006   |
| <b>C Tick</b>                        | IEC/EN 61326-1  |
| <b>US FCC</b>                        | CFR 47, Part 15 Class B   |
| <b>Vibration</b>                     | 0.03 g2/Hz (3.8 grms), IEC 68-2-6   |
| <b>Shock</b>                         | 25 g, IEC 68-2-29   |
| <b>Drop</b>                          | 2 meter (6.5 feet)  |
| <b>Size (H x W x L)</b>              | 26.7 cm x 12.7 cm x 15.2 cm (10.5 in x 5.0 in x 6.0 in)   |
| <b>Weight (battery included)</b>     | 1.2 kg (2.6 lb)   |
| <b>Enclosure rating</b>              | IP54 (protected against dust, limited ingress; protection against water spray from all directions)  |
| <b>Warranty</b>                      | Two-years (standard)  |
| <b>Recommended calibration cycle</b> | Two-years (assumes normal operation and normal aging)   |
| <b>Supported Languages</b>           | Czech, English, Finnish, French, German, Italian, Japanese, Korean, Polish, Portuguese, Russian, Simplified Chinese, Spanish, Swedish, Traditional Chinese, Turkish, and (Dutch and Hungarian in manual only) |