**Specification**

IRC327 Advanced Thermal Camera

**TEMPERATURE**

Temperature range: -30°C to 650°C

(-22°F to 1202°F)

Temperature resolution: 0.1°C (0.2°F)

Temperature accuracy:

<table>
<thead>
<tr>
<th>Temperature</th>
<th>Accuracy *</th>
</tr>
</thead>
<tbody>
<tr>
<td>≥0°C</td>
<td>±1.5°C or ±1.5% of reading (whichever is greater)</td>
</tr>
<tr>
<td>≥32°F</td>
<td>±3°F or ±1.5% of reading (whichever is greater)</td>
</tr>
<tr>
<td>≥-10°C to &lt;0°C</td>
<td>±2°C</td>
</tr>
<tr>
<td>≥14°C to &lt;32°C</td>
<td>±4°F</td>
</tr>
<tr>
<td>&lt;0°C</td>
<td>±3°C</td>
</tr>
<tr>
<td>&lt;14°C</td>
<td>±6°F</td>
</tr>
</tbody>
</table>

* Ambient temperature 23 ± 2°C and calibration geometry

Temperature coefficient: ±0.1°C/°C or ± 0.1%/°C of reading (whichever is greater)

Repeatability: ±1.0°C (2.0°F) or ± 8% of reading (whichever is greater)

Response time: <125ms to 95% of reading

Spectral response: 8 to 14 microns

Emissivity settings: 0.95, 0.80, 0.60, 0.30, or variable from 0.10 to 0.99

Distance spot ratio: 30:1

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**Thermal Imaging Detector**

Type: IR-EX™ Technology (Integrated IR Array Sensor with CMOS Sensor)

Imaging resolution: 16,384 pixels (128 x 128 pixels)*

Field of view (H x W): 33°

Upper sense range: 650°C

Thermal imaging sensitivity: 150mK

Colour palette: Greyscale, Hot iron, Rainbow

* Interpolation pixels

**GENERAL**

Display: 4.5cm colour TFT (128 x 160 pixels)

Laser: Laser product class: 2

Rated wavelength: 650nm

Beam divergence: 1mrad max.

Output power: 1mW max.

Micro SD card: 2 GB card fitted, maximum card size 32GB

Power: 3 x 1.5V, AA alkaline batteries (IEC LR6, NEDA 15A)

Battery Life: 12 hours typical

Auto power off: settable to 1, 2, 5 or 10 minutes

Low battery indication: The low battery symbol is displayed when the battery voltage drops below the operating level

Dimensions: 185 x 54 x 104 mm

Weight: Approx. 300g including batteries

Includes: 3 x 1.5V AA batteries, 2GB micro SD card and instructions

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**ENVIRONMENTAL**

Operating environment: -10 to 50°C at <70% R.H.

10 to 90% R.H. non-condensing at 30°C

Storage environment: -20 to 60°C, with batteries removed.

Altitude: up to 2000m (Operating)

up to 12000m (Storage)

**SAFETY**

Conforms to: BS EN 61010-1

Class II, double insulation

BS EN 60825-1:2014 for Class 2 Laser products

**EMC**

Conforms to BS EN 61326-1