



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:

Temperature	Accuracy *
≥0°C	±1.5°C or ±1.5% of reading (whichever is greater)
≥32°F	±3°F or ±1.5% of reading (whichever is greater)
≥-10°C to <0°C	±2°C
≥14°C to <32°C	±4°F
<-10°C	±3°C
<14°F	±6°F

* 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

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