

NEW!  
THE SMALLEST,  
SMARTEST THERMAL  
CAMERA AVAILABLE.



Introducing the new *Land Guide M4* thermal imaging camera -  
the smallest, lightest and most advanced thermal imager in the world

## LAND GUIDE M4

The new low cost, high performance Land Guide M4 thermal imager is robust, ergonomically designed and easy to operate. It is the ideal choice for an ever-increasing variety of industrial thermal imaging applications. M4 provides a wide range of unique features and benefits enabling thermographers and plant engineers to operate more efficiently and economically than ever before.

The compact design offers advanced features such as finger-tip controls, high quality thermal and visual images with voice annotation, on-board image processing, large capacity memory and versatile USB connectivity at an affordable price.

### Precise thermal and visual imaging

With a temperature measurement range of -20 to 250°C and sensitivity of 0.12°C, the M4 detects extremely small temperature differences as high resolution, 16-bit thermal images. High quality digital images provided by the built-in visual camera further enhance the versatility of the imager.

### Multiple measurement modes

Simultaneous four- spot and four- area analysis, line profile, isotherm analysis and electronic zoom function simplify the identification of potential problems.

### Auto indication of hot spot and the image centre

A cursor automatically tracks and indicates the position and temperature of the hottest spot within the image. A second cursor in the image centre is used to indicate the temperature and provide a reference for inspection analysis.

### IR locator

A built-in laser locator helps to accurately pinpoint hot spots.

### Audible and visible alarms

An audible alarm automatically triggers when a temperature spot exceeds a preset value, or when the battery power is low.

### Large storage capacity

1Gb memory provides extensive recording and storage of complete radiometric images in the camera. Each file can comprise a thermal image, visual image and voice annotation.

### KEY FEATURES

- Smallest portable thermal imager in the world
- Accurate temperature measurement
- Outstanding thermal image quality
- Export licence free, rapid despatch
- Built in visual camera to aid problem identification
- Built in laser locator to pin point problems
- Comprehensive on-board image processing
- Digital zoom x2 and x4
- Ultra light-weight at 0.265kg including battery
- On-board storage of over 5,000 images
- Transfer of both thermal and visual images via USB
- Multiple battery charging options and a.c. adapter
- Long wavelength detector (ideal for outdoor applications)
- Post-processing software and report generator

### Powerful post-processing software

Offering an extensive range of temperature measurement, image processing and report generating functions, the easy to operate Windows-based software automates the process of reporting and archiving infrared images, improving the productivity and efficiency of thermographers and maintenance engineers.

## LAND Guide M4 Portable Thermal Imaging Camera - Specifications



### Imaging Performance

Field of View/Min Focus Distance: 25° x 19°  
Spatial Resolution (IFOV): 2.75 mrad

### Thermal

Thermal Sensitivity: 120mk at 30°C at 50/60Hz  
Image Frequency: 50Hz PAL/60Hz NTSC, non-interlaced  
Electronic Zoom: x2, x4 interpolating  
Focus: Manual  
Detector: Uncooled FPA microbolometer (160 x 120 pixels)  
Detector Pitch: 35mm  
Spectral Range: 8 to 14µm

### Visual

Digital Video: CMOS Sensor, 640 x 480 pixels, 2<sup>24</sup> colours

### Image Presentation

External Display: 2.2in TFT and 1.2in CSTN high resolution colour LCD  
Video Output: PAL/NTSC Composite Video

### Measurement

Temperature Range: -20 to 250°C  
Accuracy (% of reading): ±2°C or ±2% of reading  
Modes: Auto hot-spot trace, 4 moveable spots, 4 moveable areas (min, max, average), sound alarm, isotherm  
Display Colour: Eight palettes available  
Emissivity Correction: Variable 0.1 to 1.0 (0.01 increments)  
Features: Automatic corrections based on user input for ambient temperature, distance, relative humidity, atmospheric transmission and external optics

### Physical and Environmental

Dimensions: 120 x 60 x 30mm  
Weight: 0.265kg (including battery)  
Casing: Plastic  
Operating Temperature: -20 to 60°C  
Storage Temperature: -20 to 60°C  
Humidity: Operating and storage, 10 to 95% non - condensing  
Enclosure: IP 54  
Shock: Operational: 25G, IEC 68 -2 - 29  
Vibration: Operational: 2G, IEC 68- 2 - 6

### Imager Interfaces

Power: Power is supplied by a field replaceable, rechargeable Li-ion battery  
Over 2 hours continuous operation  
System Status Indication: LCD display shows battery status, automatic alarm for power shortages, and time  
Laser Locator: Class 2 semiconductor laser  
Communication: USB 1.1; image (thermal and visual), measurement, voice and digital video transfer to PC.  
Image memory: Land Guide M4 comes with a built-in flash memory (1GB capacity). File format is .img (an individual file comprises an infrared image, visual image and voice annotation if any). Up to 300 seconds of voice annotation is available with each image

# LAND

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Infrared Temperature Measurement

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