

# MIDAS

## Low-Cost, High-Performance IR Camera



### Key Features

- Fully radiometric capabilities with  $320 \times 240$  pixel array image – not a 1/4 size ( $160 \times 120$ )
- Image format directly compatible with PYROSOFT analysis and report generation software
- Touch screen menu control on TFT-LCD display
- Displays images in real-time
- Operates like a point-and-shoot digital camera
- Operates with 6 AA rechargeable batteries
- Weighs less than 1.3 kg with batteries
- Stores 124 images in on-board RAM
- Transfers images to a remote device using USB 2.0

The **MIDAS** thermal imaging camera is an extremely light-weight, high-performance handheld IR camera offering capabilities normally found in models costing much more. It measures the infrared radiation emitted by the target surface and converts this radiation into a two-dimensional image relating to the temperature distribution at the target surface. This temperature distribution can then be viewed in full color or grey-scale through the viewfinder and/or TFT-LCD display which is located on the back of the camera.

This **radiometric camera** is ergonomically designed for comfortable one-handed point-and-shoot operation using a single button located on the top of the camera. The on-board diagnostic software provides an intuitive menu system which can be accessed through the touch screen TFT-LCD display.

Completely self-contained in a splash-proof plastic case, it is battery operated, uses advanced uncooled UFPA **microbolometer technology**, and stores images and data to an internal flash memory card. Images and image data can then be transferred to an external device using USB 2.0.



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## Specifications

Temperature Range	Range 1: -20 °C to 120 °C, Range 2: 0 °C to 500 °C
Measurement Uncertainty	±2 K or ±2 % reading
Field of View	29° (H) × 22° (V)
Focus Range	50 cm to infinity
Instantaneous FOV/Spatial Resolution	1.6 mrad
Image Update Rate	30 frames per second
Sensitivity/NETD	<0.15 °C @ 30 °C (range 1)
Detector	320 × 240 UFPA Radiometric Uncooled Microbolometer
Spectral Band	8 μm to 14 μm
Emissivity Control	0.2 to 1.0 in 0.01 steps for entire picture
Alarm	Upper or Lower

File Format	16 bit
Display Color	Color, Greyscale (positive or negative) Threshold Display (2 thresholds are adjustable)
Manual Functions	Focusing
Display Types	3.9" Touch Screen TFT-LCD display, Viewfinder
Image Processing Function	Point Temperature and Emissivity Correction
Data Display	Point Temperature, Range, Emissivity, Time, Date and Color Bar
Digital Output/Communication	USB 2.0
Image Storage Media	24 MB on board flash memory (124 images)

Operating Temperature	-10 °C to 50 °C
Storage Temperature	-20 °C to 70 °C
Voltage Input	12 V DC (external)
Power Requirements	6 AA Batteries (Battery holder included)
Camera Dimensions	170 mm (W) × 100 mm (H) × 95 mm (D)
Camera Weight	1.3 kg (with Batteries)

DIAS reserves the right to change specifications to reflect the latest changes in technology and improvements at any time without notice. These changes will be reflected in subsequent editions of our literature when warranted. September 2003.

## Standard Accessories

- 6 AA Rechargeable Batteries with 2 Holders
- AC Charger for Batteries
- AC Adapter for MIDAS
- USB Interface Cable
- Shippable Carrying Case
- PYROSOFT VIEW Software
- Shoulder Strap

## Camera Features



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