

MIDAS Low-Cost, High-Performance IR Camera



Key Features

- Fully radiometric capabilities with 320 x 240 pixel array image – not a 1/4 size (160 x 120)
- File format directly compatible with Mikron's image analysis and report generation software
- Touch screen menu control on backlit LCD display
- Displays images in real-time
- Operates like a point-and-shoot digital camera
- Operates with 6AA rechargeable batteries
- Weighs less than 3 lbs. with batteries
- Stores 124 images in on-board RAM
- Transfers images to a remote device using USB

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 greyscale through the viewfinder and/or 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 LCD display located on the back of the camera.

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.

Mikron has been an innovative leader in the field of infrared non-contact temperature measurement since 1969. Mikron offers Value Imageering to help customers solve their most challenging application problems. Value Imageering is a turnkey package, consisting of complete engineering, design, and installation services to meet the most severe and difficult thermal imaging system requirements. Today, the company provides industrial customers and R&D laboratories with accurate instrumentation ranging from convenient portable cameras to complete thermal imaging systems.



Technical Data

MIDAS Specifications	
Temperature Range:	Range 1: -20°C to 200°C Range 2: 0°C to 500°C
Measurement Accuracy:	±2 K or ±2% reading
Field of View:	29°(H) x 22°(V)
Focus Range:	12" to infinity
Instantaneous FOV / Spatial Resolution:	1.6 mrad
Image Update Rate:	30 frames per second
Sensitivity / NETD:	0.08°C @ 30°C
Detector:	320 x 240 UFPA Radiometric Uncooled Microbolometer
Spectral Band:	8.0 to 14.0 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, negative); 1 threshold display (2 thresholds are adjustable)
Manual Functions:	Focusing
Display Types:	3.9" Touch Screen LCD display, Viewfinder
Image Processing Function:	Temperature and Emissivity Correction
Data Display:	Temp, Range, Emissivity, Time, Date and Color Bar
Digital Output:	USB 1.1 and USB 2.0
Image Storage Media:	24MB on board flash memory (124 images)
Communication:	USB 1.1 and USB 2.0
Operating Temperature:	-10°C to 50°C
Storage Temperature:	-20°C to 70°C
Voltage Input:	12V DC (external)
Power Requirements:	6AA Batteries (Battery holder included)
Camera Dimensions:	6.7"(W) x 4"(H) x 3.8"(D)
Camera Weight:	2.6 lb. (with Batteries)

Mikron 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.

Standard Accessories

- (12) AA Rechargeable Batteries with (2) Holders
- AC Charger for Batteries
- AC Adapter and power cable for MIDAS
- USB/DC Interface Cable
- Shippable Carrying Case
- Software
- Shoulder Strap
- Operating Manual

Camera Features (Front)



Camera Features (Back)



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