

# Mikron MikroSHOT™

## Pocket-sized Thermal Imaging Camera

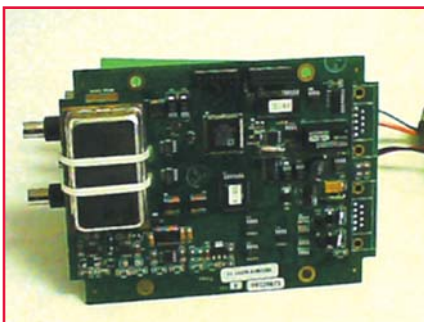


### *Thermal Imaging at your fingertips!*

Mikron Infrared introduces its newest thermal imager offering with the MikroShot. This small, easy to use thermal imaging camera will provide you with the data that you need to make the important decisions for your customers and clients. We live in a fast paced world, so a portable device that will give you the quality data that you need fast will put you at a competitive advantage. Instead of weighing yourself down with heavy, expensive equipment, you can get similar results with a device that fits in the palm of your hand! Battery operated power will put 'you on the scene faster with the convenience of data that you can easily download onto your laptop. Fast, small and low cost, the MikroShot will give you the quality results that you need.



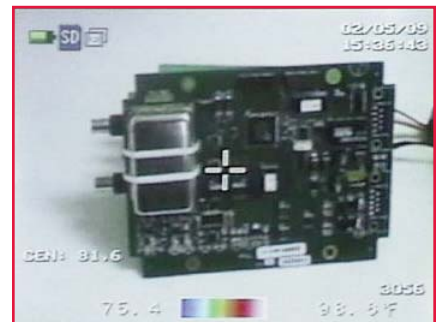
- Compact & lightweight
- Low cost
- Easy operation
- High measurement accuracy  $\pm 2\%$  of reading
- User friendly design
- Focus-free from 1.3m (1.4 yards) to infinity
- Built-in visible camera
- Data in JPEG format
- Temperature measurement  $-20$  to  $350^{\circ}\text{C}$  ( $-4$  to  $662^{\circ}\text{F}$ )
- Visible image with Temperature-on-Visible mode
- Small enough to fit in your pocket
- Minimal focal point length – can easily retrieve thermal images of smaller objects



Visible Image



Thermal Image



Temperature-on-Visible Image



## Reliable tool small enough to fit in your pocket

Easy to carry for that quick shot! A compact but reliable tool when you go out. Put it in your pocket, pull the camera out and take a shot easily with one hand. Ergonomically designed to easily grasp. Convenient wrist strap is included.



**Light weight** - Just 300g or 10.5 oz. with batteries installed.



**Visible mounted camera** - Thermal and visible images are easily linked for retrieval when creating reports.



**Focuses as close as 10cm (3.9 inches)** - You can easily take thermal images of small parts and components.



**Hotshoe** - Easily attach accessories such as a flash or light.



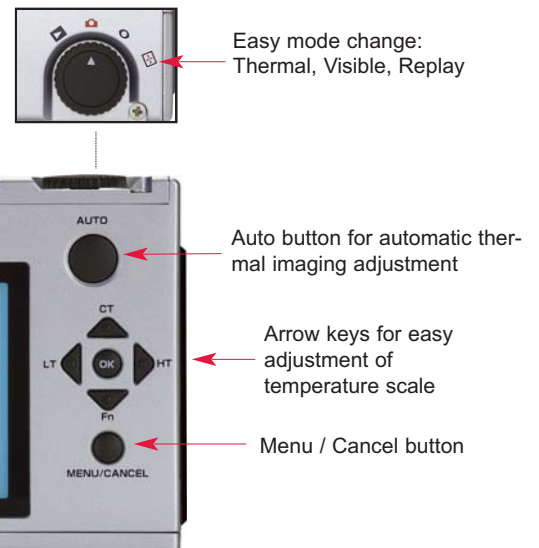
**Battery or AC operation** - Takes 3 AA rechargeable batteries. AC power adapter is included.



## Well-designed layout for convenient operation



The MikroSHOT has features that are similar to a digital camera, making it easy to use!



Large, easy-to-read display for instant analysis. Displays up to 9 thumbnail images while in preview mode.

## First in the Industry with Temperature Data Display on the Visible Image

- Quick mode change with a dial key
- Temperature-on-visible image function
- Adjustment of image position
- Visible camera with 700K pixels

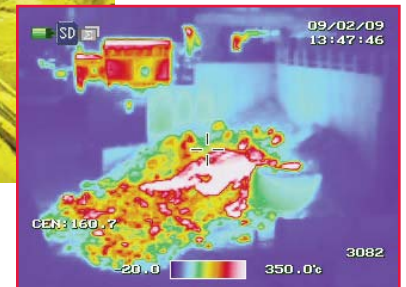
### + Focus-free from 1.3m (1.4yd) to infinity for quality images

The Mikron MikroShot is a great thermal imager. With a minimum focal length of 10cm (3.9 inches) for close-up imaging of small parts, there's a simple correlation between resolution and field of view. No complex calculations are required.

**FOV of 1m(H) x 0.75m(V) at 2m distance (or 1.1 yd x 0.82 yd at 2.2 yd)**

Calculation:

- Q. Required distance to image area of 1m wide?  
A. 2m

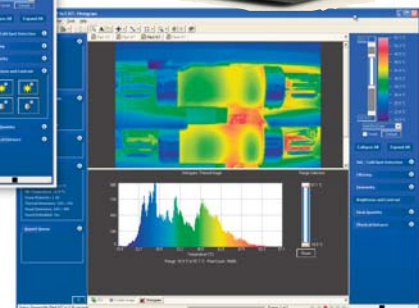
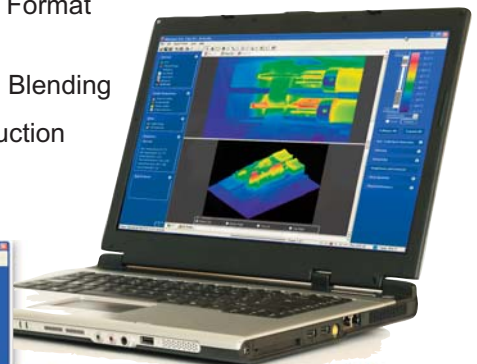
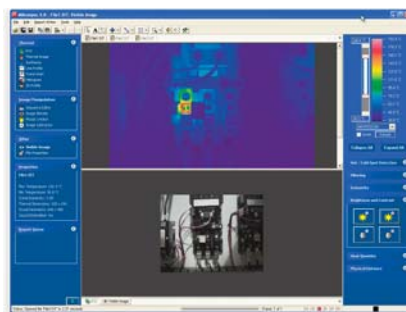


### MikroSpec™ 4.0 software included for convenient image manipulation and data analysis

With MikroSpec 4.0 you can quickly create sophisticated, professional inspection reports.

MikroSpec 4.0 is an unrivaled value in the thermal imaging inspection industry allowing users to view visual images, incorporate them into reports, and/or save visual images with their associated thermal image as a single image composite, in a blended combination. Using radiometric thermal image data, the software allows you to define temperature ranges and colors to create several isotherms. The analyzed image then provides you an easy-to-read graphic representation in a discrete temperature range.

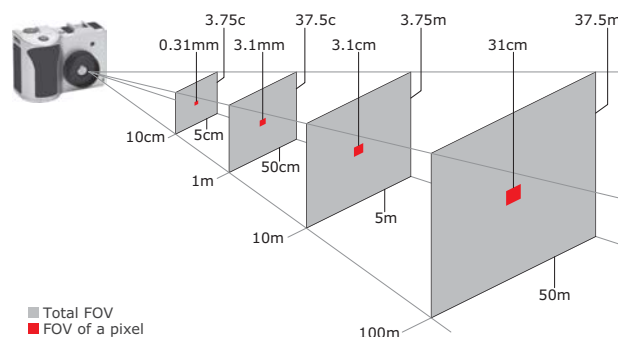
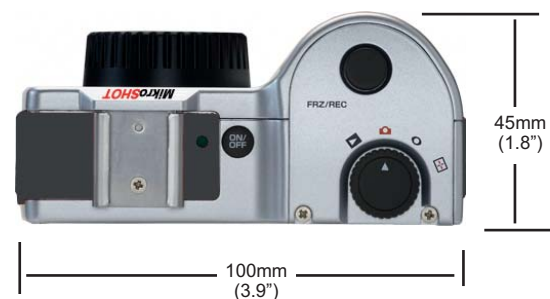
- Multiple Built-in Language Options
- Multiple ROI shapes (Region of Interest)
- Built-in Lens/Distance and Heat/Loss Calculators
- Dew point calculation
- Report files in Microsoft Word Format (Compatible with MS Word)
- Option: Thermal/Visual Image Blending
- Option: Mosaic Image Construction
- Option: Image subtraction





## Specifications

Basic Specifications	Measuring Range	-20 to 350 °C (-4 to 662 °F)
	Resolution	0.2°C / 0.1 °C with S/N improvement
	Infrared Detector	Uncooled focal plane array (UFPA) microbolometer
	Spectral Range	8 to 13 µm
	Frame Time	8.5 Frames / Sec (fully exportable)
	Thermal Image	160 (H) x 120 (V) pixels
	Field of View	28° (H) x 21° (V)
	I.F.O.V.	3.1 mrad
	Focusing Range	10cm to infinity (temperature accuracy not assured at 50cm or closer)
	Accuracy	±2°C or ±2%, whichever is greater
	Non-uniformity Correction	Automatic upon start-up. User adjustable interval
Measuring Functions	Point Values	Center, max/min, movable (1 point), ΔT
	Emissivity Correction	Provided
	Background Compensation	Provided
	Isotherm	Provided
	Alarm	On screen, high or low temperature
	Image Improvement	Filtering and averaging
	Auto Range & Span	Provided
Image Display	Color Palette	4 types available
	Visible Light Camera	Approx. 0.7M pixels
Image Storage	Monitor	2.7" LCD
	Format	JPEG with data (for post-analysis and temperature scale change)
	Storage Medium	SD Card
Interface	Thumbnail Display	9 images
	USB 2.0	Provided
	Video Output	Provided, NTSC
Power Supply	Batteries	Rechargeable NiMH batteries (3)
	AC Power	Provided
	Sleep Mode	Provided
Environmental Specifications	Automatic Shut off	Provided
	Operating Temperature	-15 to 50°C (5 to 122°F)
	Protection	IP43
	Dimensions	100 x 65 x 45mm (3.9 x 2.6 x 1.8")
	Weight	300g (including 3 batteries)



### Standard Accessories:

- MikroSpec 4.0 software
- Operation manual on CD
- Soft case
- Hand strap
- USB cable
- SD card (1GB)
- (3) Rechargeable NiMH batteries
- Battery charger
- AC adapter and power cable

### Optional Accessories:

- MikroSpec 4.0 Pro software
- SD card (2GB)
- Video cable
- Tripod
- Additional Rechargeable NiMH batteries

### Hot Shoe Accessories:

- External Flash
- Light
- Level



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