

# Mikron *MikroSHOT*<sup>™</sup>B

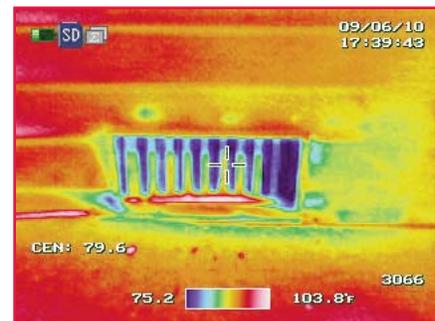
Pocket-sized Thermal Imaging Camera



## *Specifically Designed to Meet the Needs of Building Inspectors!*

Mikron Infrared introduces its newest thermal imager specifically designed for the building inspection industry, the MikroSHOT-B. This small, easy to use thermal imaging camera provides you the perfect tool to instantly determine the thermal integrity of any building. The MikroSHOT-B provides a radiometric thermal imager, digital camera and temperature on visual image, all in one unit. 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, or with the convenient soft case right on your belt loop, keeping your hands free for other tasks. Battery operated power will put you on the scene fast. Images can be downloaded quickly via USB, or just remove the SD card and place in your laptop. Quick, simple and affordable, the MikroSHOT-B will give you the quality results that you need... fast.

- Easy operation
- High accuracy  $\pm 2\%$  of reading
- User friendly design
- Focus-free from 1.4 yards (1.3m) to infinity
- Built-in visible camera
- Data in JPEG format
- Temperature measurement -4 to 212° F (-20 to 100° C)
- Visible image with Temperature-on-Visible mode
- Minimal focal point length – can easily retrieve thermal images of smaller objects



Thermal Image



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 MikroSHOTB out and take a shot easily with one hand. Ergonomically designed to easily grasp. Convenient wrist strap is included.



**Light weight** – Just 10.5 oz. (300g) with batteries installed.



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



**Focuses as close as 3.9 inches (10cm)** – 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-B has features that are similar to a digital camera, making it easy to use!



Easy mode change: Thermal, Visible, Replay



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 1.3 yards (1.3 m) to infinity for quality images**

The Mikron MikroSHOT is a great thermal imager. With a minimum focal length of 10 cm (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 1.1 yd x 0.82 yd at 2.2 yd distance  
(or 1m(H) x 0.75m(V) at 2m)**

Calculation:

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

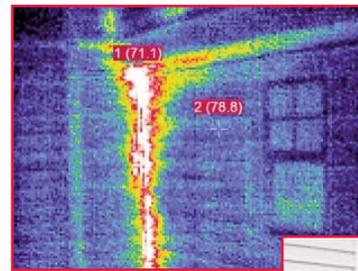


Image left: Thermal image showing water damage at joint of room addition.  
Image below: Visible image of the same.

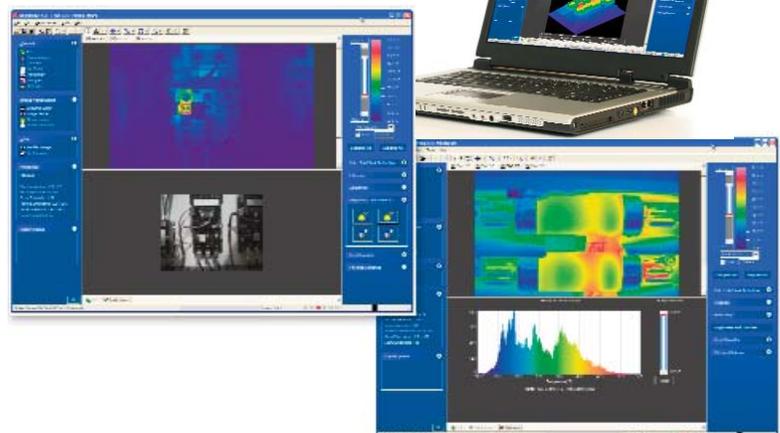


**JPG MikroSpec™ 4.0 software included for convenient image manipulation and data analysis**

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

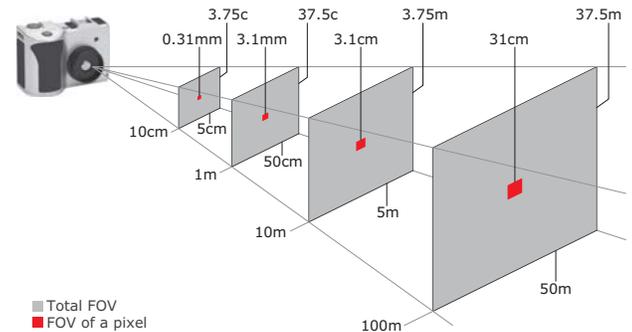
MikroSpec 4.0 is an unrivaled value in the thermal imaging inspection industry allowing users to view visual images, incorporate them into reports, and/or save visual images with their associated thermal image as a single image composite, in a blended combination. Using radiometric thermal image data,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

- Advanced Image Analysis
- Easy-to-use OLE-2 Compliant Report Writer
- Multiple Color Palettes
- Multiple Built-in Language Options
- Built-in Lens/Distance and Heat/Loss Calculators
- Thermal / Visual Image Blending
- Saves files in Microsoft Word Format (Compatible with MS Word)
- Mosaic Image Construction



# Specifications

<b>Basic Specifications</b>	Measuring Range	-4 to 212° F (-20 to 100° C)
	Resolution	0.1° C
	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 50 cm or closer)
	Accuracy	±2% of reading
<b>Measuring Functions</b>	Non-uniformity Correction	Automatic upon start-up. User adjustable interval
	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
	Color Palette	4 types available
	<b>Image Display</b>	Visible Light Camera
Monitor		2.7" LCD
<b>Image Storage</b>	Format	JPEG with data (for post-analysis and temperature scale change)
	Storage Medium	SD Card
	Thumbnail Display	9 images
<b>Interface</b>	USB 2.0	Provided
	Video Output	Provided, NTSC
	Batteries	Rechargeable NiMH batteries (3)
<b>Power Supply</b>	AC Power	Provided
	Sleep Mode	Provided
	Automatic Shut off	Provided
<b>Environmental Specifications</b>	Operating Temperature	5 to 122° F (-15 to 50° C)
	Enclosure Rating	IP43
	Dimensions	3.9 x 2.6 x 1.8 inches (100 x 65 x 45 mm)
	Weight	10.5 oz (300 g), 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:

- Light
- Level

Visit [www.mikroninfrared.com](http://www.mikroninfrared.com) for local sales representation.

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