

MikroScan 7600PRO



World's Finest, Fully Radiometric Thermal Imager with Visual and Thermal Composite Image Functionality

Easy to use, superior performance infrared camera with high-quality flip-out LCD display and on-board digital visual and voice recording for demanding PPM applications



Key Features

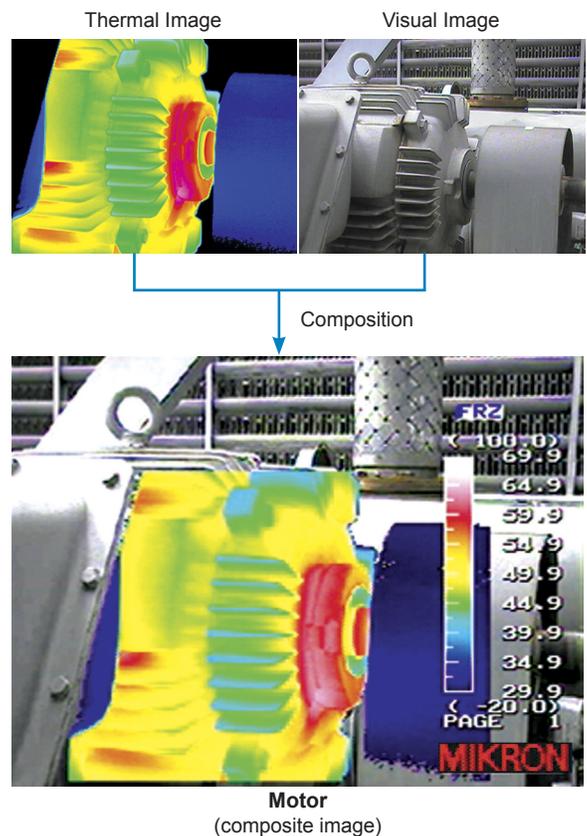
- Newly developed high performance 320x240 UFPA detector
- Exceptional performance with a resolution of 0.06°C (at 30°C 60Hz)
- Visual and Thermal Composite Image Functionality
- Temperature Range -40°C to 2000°C
- Focusing Range of 30cm to infinity
- 3.5" LCD monitor with auto switch
- Real-time image recording (1664 images at 60Hz)
- On-board digital visual and voice recording
- Multi-spot temperature measurement with emissivity settings
- Automatic level, gain and focus
- IEEE 1394 (Firewire®)

Mikron has once again raised the bar on thermal imaging with the introduction of the MikroScan 7600 PRO. This high resolution and high performance, hand-held IR camera offers capabilities that far exceed any IR camera on the market today. The MikroScan 7600 PRO is an extremely lightweight, fully-radiometric camera with built-in visual imaging capabilities. With its newly developed high-performance UFPA detector and built-in visual camera, linking thermal and visual images and creating thermal/visual image composites for easy data storage, analysis and post processing has never been more efficient.

The MikroScan 7600 PRO is ergonomically designed for comfortable one-handed point-and-shoot operation using simple joystick operation, an intuitive menu system, five direct access buttons, viewfinder and high-quality flip out LCD display. It includes on-board digital voice recording and has the ability to simultaneously record high-definition 14-bit thermal images with digital visual images.

It is battery operated, comes standard with extensive onboard image processing software, and has the ability to store images and data to a standard compact flash memory card. Images can also be viewed in real-time via the video output or through a built-in IEEE 1394 (Firewire®) interface. Completely self-contained in a dust proof and splash proof case, the MikroScan 7600 PRO not only meets IP54 specifications, but it also offers a shock rating of 30G (IEC60068-2-27) and a vibration rating of 3G (IEC60068-2-6), making it the perfect imager for the even the most extreme of environments.

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

MikroScan 7600 PRO		
Performance	Temperature Range:	Range 1: -40°C to 120°C Range 2: 0°C to 500°C Range 3: 200°C to 2000°C (Optional)
	Measurement Accuracy:	±2% or 2°C of reading
	Field of View:	21.7°(H) x 16.4°(V)
	Focus Range:	30 cm to infinity
	Instantaneous FOV / Spatial Resolution:	1.2 mrad
	Image Update Rate:	60 frames per second
	Resolution:	0.06°C (at 30°C 60Hz) or 0.03°C (at 30°C Σ12)
	Detector:	320 x 240 Uncooled Focal Plane Array Microbolometer
	Spectral Band:	8.0 to 14.0 μm
	Display Functions	B&W/Color Image:
Thermal/Visual Composite Image Display:		Provided
Isothermal Band Display:		Max. 4 bands
Multi-image display:		Replay 12 thermal images
Multi-Sense Display:		Provided
Presentation	Line Profile:	X, Y line profile (waveform display)
	A/D Resolution	14 bit
	Annotation:	Text and voice annotation (30 sec. per image)
	Movie Recording:	Real-time memory (1664 images @ 60Hz)
	Image Processing Functions:	Variable level/sense; Multi-point temperature display (10 pts); Multi-point emissivity display (10 pts); ΔT Display; Max/Min (peak hold) temperature display; Alarm (full screen or specified box); 2x and 4x digital zoom (Run/ Freeze); Box setting (max 5 boxes)
	Display:	Viewfinder and 3.5 inch LCD monitor with auto switch
	Video Output:	NTSC/PAL composite video signal, S-Video
	Image Zoom:	2:1, 4:1 (with spatial filtering)
Visual Camera	Pixels:	0.41 Mega pixels
	Effective Image Pixels:	752 (H) x 480 (V) pixels
	Field of View:	30.1° (H) x 22.7° (V)
	Sensitivity:	1 lux
	Focusing distance:	30 cm to infinity
	Auto Exposure:	Provided
	Video Signal:	NTSC
Measurement	Measuring Functions:	Run/Freeze
	S/N improvement:	Σ2, Σ8, Σ16, and spatial filter ON/OFF
	Alarm:	Screen display and alarm sound (ON/OFF)
	Interval Measurement:	Recording on memory card: 2 to 3600 sec. interval; trigger function
	Emissivity Correction:	0.10 to 1.00 (at 0.01 steps)
	Environmental Temperature Correction:	Provided (including interval NUC)
	Background Compensation:	Provided
	User Setup:	Pre-registration of user setup (max. 10 setups)
	Auto Functions:	Full automatic (level, sense, focus); level trace, auto gain control
	Interface	Communication:
Storage Device:		Compact Flash Memory Card (stores thermal images in .SIT or .BMP file format; visible images in .SIT or .JPEG file format; and thermal/visual composite images in .BMP file format)
Video Signal Output:		NTSC/PAL composite video signal, S-video
Remote Control Operation:		IEEE1394 (Firewire®) Interface
Environmental	Operating Temperature:	-15°C to 50°C 90% Relative Humidity or less (not condensed)
	Storage Temperature:	-40°C to 70°C 90% Relative Humidity or less (not condensed)
	Environmental Protection:	IP 54 (IEC60529)
	Shock:	30G (IEC60068-2-27)
	Vibration:	3G (IEC60068-2-6)
Electrical	Power Supply:	AC adaptor: 100V to 240V, DC 7.2V (nominal)
	Power Consumption:	Approx. 6W (typical)
	Battery Operation:	Approx. 2 hours 30 minutes
Physical Characteristics:	Camera Dimensions:	4.3" x 4.5" x 7.4" (excluding projection)
	Camera Weight:	2.9 lb (excluding battery and LCD)
		3.5 lb. (including battery and LCD)

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. FireWire is a trademark of Apple Computer, Inc., registered in the U.S. and other countries.

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