

MikroScan 7200V

Fully Radiometric, Hand-Held Thermal Imager with Built-in Visible Light Camera

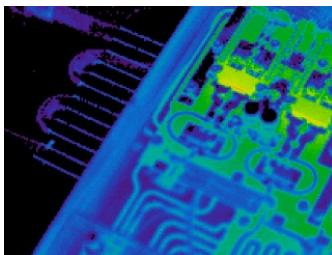


Easy to use, fully-radiometric infrared camera with on-board digital visual and voice recording capabilities for demanding PPM applications

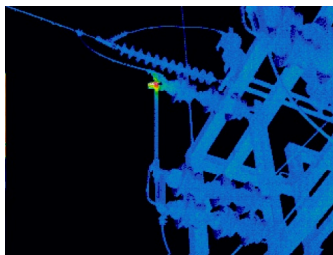


The MikroScan 7200V represents another milestone in innovative infrared thermometry. This fully-radiometric camera is ergonomically designed for comfortable one-handed point-and-shoot operation, includes on-board digital voice recording, and can simultaneously record high-definition 14-bit thermal images with digital visual images. The MikroScan 7200V is completely self-contained in a splash-proof metal case, is battery operated, and stores images and data to PCMCIA cards. Images can also be viewed in real-time via the video output or through an optional built-in IEEE 1394 (Firewire®) interface.

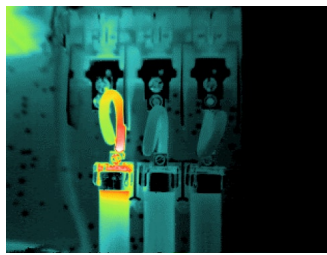
The MikroScan 7200V comes standard with extensive onboard image processing software. It also can be remotely controlled from a PC using optional software developed by Mikron, which provides additional analysis and reporting capabilities.



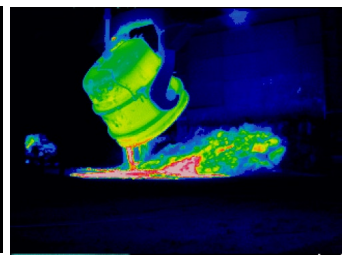
Electronic Component Uniformity



High Voltage Contact



Connector at Fuse



Refractory Degradation

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.



THE INFRARED PROS

Technical Data

MikroScan 7200V		
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:	29°(H) x 22°(V)
	Focus Range:	30 cm to infinity
	Instantaneous FOV / Spatial Resolution:	1.58 mrad
	Image Update Rate:	30 Hz/60Hz (selectable)
	Sensitivity / NETD:	0.06°C @ 30°C
	Detector:	320 x 240 UFPA VOX Microbolometer
	Spectral Band:	8.0 to 14.0 µm
	Atmospheric Transmission Correction:	Input correction by outside temp., humidity, and measuring distance
	Emissivity Setting:	Auto based on operator input
	Alarm:	Upper or Lower
	Image Freeze:	Provided
Presentation	File Format:	14 bit
	Digital Visual Recording:	On-board
	Annotation:	Text and voice annotation
	B&W/Color Image:	Several palettes available
	Auto Gain Control (AGC):	Automatic level, gain, focus
	Viewfinder:	Standard (Color LCD optional)
	Video Output:	NTSC/PAL, S-Video
	Image Zoom:	2:1, 4:1 (with spatial filtering)
Measurement	NUC:	Flag correction by specifying the interval time. (Manual/Auto selectable. Interval time setting available at auto)
	ΔT Display:	Display temperature difference between point A and B
	Region of Interest Setting:	Display Max/Min temperature in an operator-defined box
	Peak Temperature Hold:	Keep Max/Min temperature during recording cycle
	Isotherm:	Variable Bandwidth, Multi-Color for Regions available
	Temperature Span:	Automatic
	Temperature Range Setting:	Auto and Manual
Multi-Spot Temperature Measurement:	10 pt. max. with EMISS setting	
Interface	Communication:	RS-232/C (computer control available)
	Memory Card:	Provided PCMCIA 16mb
	Remote Control Operation:	GPIB, RS-232C, or LCD Remote Panel IEEE1394 (Firewire®) Interface (optional)
Environmental	Operating Temperature:	-15°C to 50°C (90% Relative Humidity)
	Storage Temperature:	-40°C to 70°C (90% Relative Humidity)
	Environmental Protection:	IP 54 (IEC60529)
	Shock:	30G (IEC60068-2-27)
	Vibration:	3G (IEC60068-2-6)
Electrical	Power Supply:	95-250V AC 47-63 Hz
	Power Requirements:	7.2V DC 6W
	Battery Operation:	110 mins (Li-ion Battery)
Physical Characteristics:	Camera Dimensions:	3.8" x 4.3" x 6.7"
	Camera Weight:	4.0 lb. (without battery)
	Enclosure / Protection:	IP 54 IEC 529 Housing
MikroScan 7200V Optional	Temperature Range 3:	200°C to 2000°C
	Onboard Real-time Memory Recording:	Operator selectable image capture rate
	Lenses:	Telephoto 2.0, Wide-angle, Close Focus
	LCD Panel:	With full remote control capabilities
	LCD Panel 5.6" diagonal measurement:	Complete with belt battery pack
Real-time Image Capturing:	IEEE1394 (Firewire®) Interface MikroSpec R/T software	

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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