

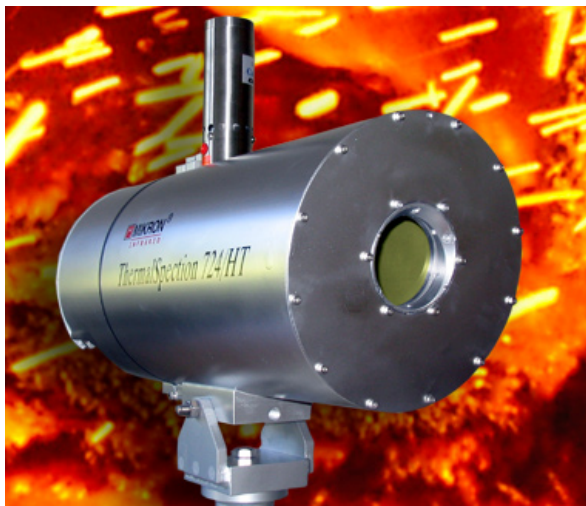
ThermalSpection 724HT

Remote Thermal Monitoring System for Demanding High-Temperature Applications

Provides high-temperature range, specialized flame filtering capabilities, and specialized software for monitoring high-temperature applications in real-time

Mikron's ThermalSpection 724 HT Remote Thermal Monitoring System represents another milestone in innovative infrared thermometry. With its high-temperature range and specialized flame filtering capabilities, this is the first fixed-unit system that can remotely monitor high-temperature applications in real time. Designed with advanced maintenance-free electronics and industrial protective packaging, the ThermalSpection 724 HT system offers unparalleled accuracy for demanding high-temperature applications

in the most adverse environments. With an unmatched array of optional accessories, the ThermalSpection 724 HT system demonstrates Mikron's commitment to long-term trouble-free operation.

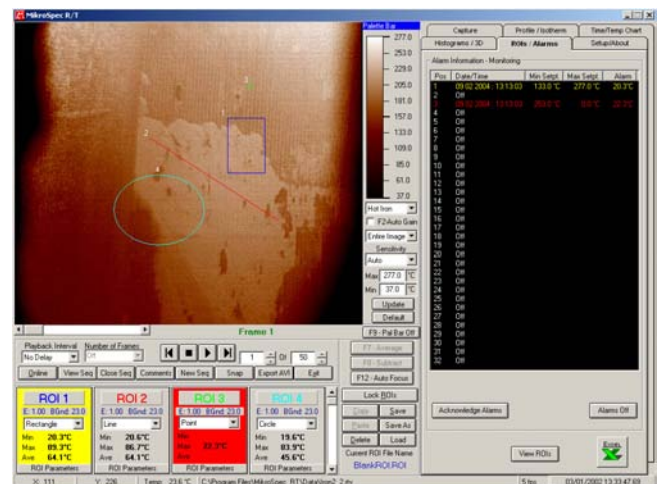


The ThermalSpection 724 HT thermal imaging camera is mounted in a totally sealed environmental enclosure which contains an IR transparent window and offers continuous cooling from a UL-certified air cooling system. Positive pressure inside the enclosure prevents dirt or dust from entering, even in the harshest conditions. With an optional purge unit, the enclosure can also protect against explosion hazards in areas with possible exposure to volatile gases.

The camera has an Internet IP address and can be controlled from any computer using wired or wireless Ethernet. When utilized with Mikron's MikroSpec™ R/T Thermal Data Acquisition and Analysis software, the camera is capable of monitoring up to 32 Regions of Interest and of being able to record up to 75 minutes of data in real time. Frames can also be captured at intervals rather than continuously, or they can be triggered by temperature alarms tied to individual Regions of Interest or by direct signal from the PC.

System Features/Benefits

- High Quality, Real Time Digital Image Transfer via Ethernet or IEEE1394 (Firewire)
- Remote Monitoring via (wired or wireless) Ethernet
- NEMA-4 housing
- Maintenance Free operation
- Control and Alarm Triggering Software with 32 Regions of Interest
- Includes High-Temperature Range 400°C to 1600°C (with Flame Filter)
- High Accuracy $\pm 2\%$ or 2°C of reading
- Long Wavelength, Less Affected by Sunlight
- Ambient temperatures to 100°C (212°F) with optional cooling
- IR Camera Based on Proven MikroScan 7304
- Remote Pan-And-Tilt capability (optional)
- Multiple Camera System functionality (optional)
- 8-Channel Input/Output Module (optional)



MikroSpec R/T Software



Technical Data

IR Camera—MikroScan 7304	Detector:	320 x 240 Uncooled Focal Plane Array (Microbolometer)
	Temperature Range:	Range 1: -40°C to 120°C Range 2: 0°C to 500°C Range 3: 400°C to 1600°C (with Flame Filter)
	Measurement Accuracy:	±2% or 2°C of reading
	Field of View:	29°(H) x 22°(V)
	Focus Range:	30 cm to infinity
	Instantaneous FOV:	1.58 mrad
	Spectral Band:	8.0 to 14.0 µm
	Image Update Rate:	30 Frames/sec or 60 Frames/sec (selectable)
	Sensitivity / NETD:	0.06°C @ 30°C
	A/D Resolution:	14 bit
Interfaces	Communication:	Ethernet, IEEE1394
	Video Output:	NTSC/PAL, S-Video
OnLine Thermal Image Processing Software	Presentation:	In run mode the system displays a live thermal image on the screen in 256 colors. Images can also be frozen.
	Remote Camera Control Functionality	Allows you to select the camera type, mode, range, temperature scale and lens. Also allows adjustments to be made for focusing, emissivity, ambient calibration, and percentage of transmission loss.
	Real-time Image Acquisition	Allows large amount of data to be capture at user-adjustable capture rate.
	Multiple Regions of Interest (ROIs)	Process and compute the minimum, maximum and average temperatures for up to 32 Regions of Interest (ROIs) defined in a variety of shapes.
	Multiple Color Palettes Off-Line Analysis	Offer flexibility for optimal image clarity. Replay and analyze image sequence files that have been previous captured and saved to disk.
Housing	NEMA-4 Enclosure with Mounts	Includes IR Transparent Window, interface connections, power termination strip, vortex air cooler with thermostat control or optional solid state air conditioner or heater with thermostat control
Environmental	Operating Temperature:	-15°C to 50°C
	Storage Temperature:	-40°C to 70°C
	Shock Resilience:	30G (IEC60068-2-29/JIS C 0042)
	Vibration Resilience:	3G (IEC60068-2-6/JIS C 0040)
Electrical	Power Supply:	120 VAC 5 Amps Max Standard (10 Amps with Pan & Tilt)
Physical Characteristics	Dimensions:	8.5" (H) x 29" (L) x 10.625" (OD) (excluding projections)
	Weight:	approximately 70 lb.

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.

Optional Equipment

8-Channel Input/Out Modules

Relay Output (Alarms) Module	Offers 8 relay channels with each channel driving up to 240VAC at 3 Amps
Universal Input (Remote Triggering) Module	Offers 8 channels with each channel ranging from 5 VDC to 240 VAC
4-20 mA Output Module	Offers 8 channels allowing MikroSpec R/T software to send each Region of Interest temperature to a 4-20mA output.
4-20 mA Input Module	Offers 8 channels allowing the MikroSpec R/T software to store external signals with captured temperature data.

MikroSpec R/T Multiple IR Camera System Package

The MikroSpec R/T Multiple IR Camera System Package is a unique software add-on that allows data obtained from up to 14 cameras to be monitored simultaneously in real-time on a single computer.

Lenses

The MikroScan 7304 is supplied with a standard lens offering a 29°(H) x 22°(V) field of view. Optional Telephoto and Wide Angle lenses are also available at an additional cost.

Remote-Controlled Pan/Tilt Head

A remote-controlled pan-and-tilt head is available at an additional cost.

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