

# MikroLine 2250



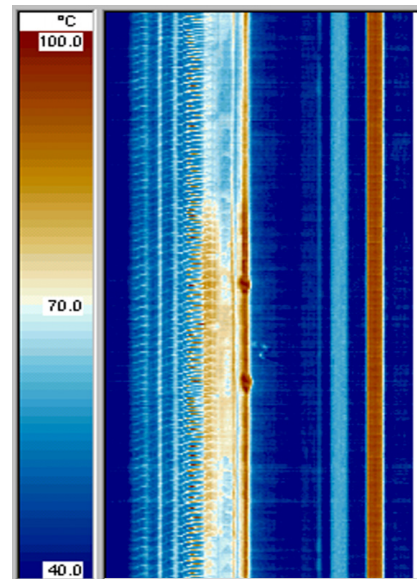
## High Speed IR-line Camera for Fast Non-Contact Temperature Measurement of Tires

Unique high speed IR-Line camera with 160 data points per line and a measuring rate of 18,000 lines per second



- Robust industrial housing
- Air purge for lens system
- No operating elements
- Fiber optic data-transfer

- Parallel measurement of 160 measuring points
- Measuring frequency 18,000 lines/sec.
- PbSe-160-element sensor
- Triggered data acquisition
- Threshold control
- Data recording function



360° Tire Image while Tire is traveling at 100 mph

**H**igh speed IR-line camera with 160 measuring points per line and a measuring rate of 18,000 lines per second — a special development for fast non-contact temperature measurement of tires. The triggered measurement allows an exact geometrical assignment of the single measuring points. An efficient online software under WIN NT™ permits the control of thresholds and processes. By recording functions, the quick temperature changes can be accumulated as a film.

**M**ikron has been an innovative leader in the field of infrared non-contact temperature measurement since 1969. Our staff of qualified engineers and trained sales consultants are completely dedicated to quality and to helping customers solve their most challenging application problems.

## Introducing Mikron's THERMALSPECTION™

**I**mplementing a systems approach for thermal process applications requires full knowledge of the customer's applications, available thermal imagers and thermal scanners, customer's existing controls platform, and software requirements, etc. We have a full staff of engineering and software specialists available for the design and development of comprehensive turn-key systems for all customer applications. Experience in many different thermal applications is the backbone of our designs and short-term turnaround for specialized software and custom camera configurations is our specialty.



THE INFRARED PROS

## High speed IR-line camera for temperature measurement of tires

<b>MikroLine 2250</b>	
Spectral range:	3 - 5 $\mu\text{m}$
Temperature range:	50°C - 180°C
Sensor:	PbSe-160-element sensor with CMOS-multiplexer
Opening angle:	30° x 0.13°
Measuring distance:	min. 10 cm to $\infty$
Spatial resolution:	3.3 mrad (50% modulation)
Temperature resolution:	0.5° K at 50°C
Temperature accuracy:	$\pm 2\text{K} \pm 2\%$ from measurement (°C)
Line scan frequency:	2000 Hz up to 18 kHz
Response time:	approximately 1 second
Warm-up time:	< 30 min.
Interface:	Fiber Optic/PCI-PC-card
Camera housing:	protective housing IP-65
Operating temperature camera:	0°C - 40°C
Storage temperature:	-20°C - 70°C

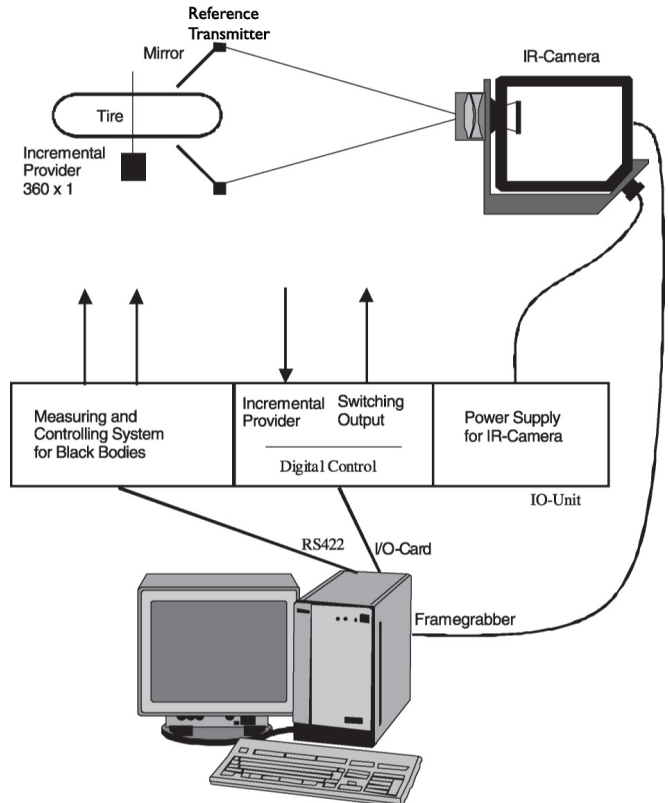
Mikron reserves the right to change specifications to reflect the latest changes in technology and improvements at any time without notice. These changes will be reflected in subsequent editions of our literature when warranted.

### Standard accessories

- Controller (PC)
- Windows NT
- Fiber Optic/PCI-PC-Card
- Interface
- External trigger inputs
- Alarm output (open collector)
- Black Bodies for calibration
- 17" monitor, mouse, and keyboard
- Control device
- System cable 10 m

### Standard-firmware

- Controlling/evaluation software in Visual C++ (Win NT)
- Camera control
- Trigger signal processing
- Temperature correction
- Accumulation of real time images (360 lines)
- Visualization software
- Presentation of color images
- Online threshold-control in tracks
- Recording function



## Mikron Infrared, Inc.

Thermal Imaging Division

1101 Elevation Street, Suite 3  
Hancock, MI 49930

Tel: (906) 487-6060

Fax: (906) 487-6066

E-Mail: [jon@mikroninfrared.com](mailto:jon@mikroninfrared.com)

Internet: [www.mikroninfrared.com](http://www.mikroninfrared.com)

For More Information Call:

**1-888-506-3900**

 **MIKRON**<sup>®</sup>  
I N F R A R E D