Extreme high stability by using Chopped Radiation Method

Robust industrial style

High Accuracy

Very fast simultaneously measuring with 256 detectors and 250 Hz



Applications

Benefits:

- Very fast and complete measuring of the surface
- Monitoring of rotating cylinders
- Monitoring and control of noncontinuous processes

Examples:

- Production of glass (coating, forming, ...)
- Hot-Spot detection
- Coating of rotating cylinders
- Manufacturing of buildingmaterials
- Plastic foils

LineCamera



Very fast IR LineCamera for non-contact Temperature Measurement



LineCamera LC 25.82 - View

Features

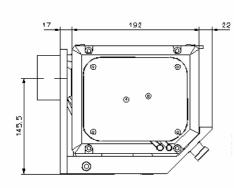
- Customized solutions (Hard- and Software)
- Simultaneous measuring with 256 detectors
- Wide temperature range from 0°C to 550°C
- Very fast response times from 250 Hz
- Focusable lenses from 20 cm to infinite
- Spatial resolution from 1,4 mm x 256 detectors
- High accuracy (1,0%) and long term stability
- Chopped Radiation Method for highest temperature stability

Equipment

- Digital signal processing
- Trigger for synchronisation of measurements
- Integrated monitoring of zones
- ... up to 64 zones with PC-connection
- Alarm outputs
- Stand-alone mode
- Data-transfer in real-time
- Laser pointer for marking of measuring lines
- Robust industrial housing, IP65

Temperature range		
remperature range		0°C 80°C, 50°C 550°C
Temperature resolution (NETD)		< 0,5°C at 32 Hz and < 1,5°C at 250 Hz for the complete measuring range
Accuracy		± 1°C plus 1% of measuring value, 2°C at < 100°C
Detectors		Line with 256 pyro-electrical detectors
Lenses		40° x 0,3°, focusable from 20cm to CO
	or	60° x 0,5°, focusable from 50cm to CO
Field of view		From 1,4mm x 185mm, depending on lens and measuring distance
Measuring zones		Up to 64 individual measuring zones with individual adjustable emissivity
Marking of measuring field		Laser pointer indicates size of measuring line
Spectral range		8 – 14 µm
Emissivity		0,100 to 1,000 in 0,001-steps
Reflected radiation		Compensated with emissivity, adjustable for each zone
Response time / frequency		4 ms / 256 Hz, further 256Hz, 128Hz, 64Hz, 32Hz,
Serial interface		RS 232-interface, bidirectional, 9.600 to 115.000 bps, for programming and
		transmitting of measured values
	or	RS 422-Schnittstelle, bidirectional, 9.600 to 115.000 bps
	or	RS 232 with fibre optic, RS 422 with fibre optic
	or	PCI with fibre optic for programming and data-transfer in real-time
Trigger input		LED-inputs
Alarm output		Galvanic isolated, Opto coupling
Operating voltage		18 36 VDC
Power consumption (input)		10 VA
Permissible ambient temperature		0°C 50°C, with water cooling -25°C 150 °C
Storage temperature		-20°C 70°C
Type of protection, weight		IP65 (IEC), 3,2 kg
Housing		Metal

Software for Windows-operating-system



Housing dimensions in mm

