

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 non-continuous processes

Examples:

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

LineCamera

LC25.82

**Very fast IR LineCamera
for non-contact
Temperature Measurement**

HEITRONICS

Infrarot Messtechnik

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

Technical Data

Temperature 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 ∞ or 60° x 0,5°, focusable from 50cm to ∞
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

