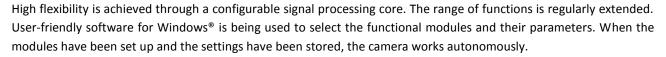


Lixus-i PN 512 Intelligent Line Scan Camera

he intelligent line scan camera Lixus-i PN 512 is an autonomously functioning measurement and monitoring system with an extremely high line scan rate. The integrated, highly powerful signal processing system exactly evaluates each scan. It delivers measurement results, and it can filter these results as well as monitor defined deviations. It can intervene directly in the process via several outputs.

The electronically integrated shutter enables the achievement of very short exposure times. Fast and short events create an external impulse that

asynchronously triggers the camera. Several systems can be linked and synchronized.



The anti-blooming function prevents the camera Lixus-i PN 512 from being sensitive to saturation of individual pixels. The camera has manual and automatic controllers for exposure time, gain and video offset (contrast adjustment). Thus it is capable of correcting object illumination, and it guarantees optimum adjustment of the sensor to signal processing.

Key Features

- Autonomous measuring and monitoring system
- Integrated signal processing for evaluating each scan in real time
- Extremely high line scan rate (≤ 57,000 Scans/s)
- Integrated electronic shutter
- Anti-Blooming-function
- Electrically separated digital inputs and outputs
- Analog current interface
- Sturdy, industrial strength design
- Asynchronously triggerable

Applications

- Measurement and monitoring of geometric dimensions (position, width, diameter)
- Edge detection for position and width measurement with threshold values that can be uniformly defined or set for each picture element and with different filtering methods
- Monitoring of surface faults, holes and tears in web materials (sheet metal, paper, foil, textiles, wood)
- Radial and axial measurement
- Monitoring the presence of components (adhesives, coatings, etc.)
- Monitoring of the number of objects
- Monitoring of the tolerance limits of a light intensity progression

Options and accessory

- Lens protector for IP 65
- Ready-made connection cable
- Lamps LixusLight
- Lenses, lens mount adapter

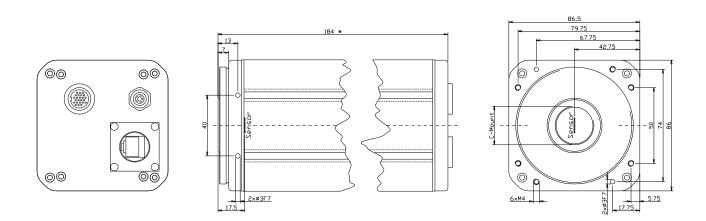


Technical Data

Sensing area 5.1 mm x 10 μm Exposure Time -32 option: 4.0 μs 13 ms -65 option: 1,0 μs 6.5 ms Line Scan Rate -32 option: max. 32,360 Scans/s -65 option: max. 64,700 Scans/s Control (manually / automatically) Exposure time, gain, offset (contrast) for a selected section Interface RS232 or RS422 max. 115 kBaud, opti-isolated Optional: separate RS232 connection for configuration in site Ethernet 100 Mbit/s, RI45-Connection, opto-isolated (optional) Inputs 3x digital, opto-isolated Outputs 4x digital, opto-isolated (3x digital with anlog output) Optional: x analog 4 mA 20 mA or 0 mA 20 mA, opto-isolated Synchronization extern, asynchronously triggerable 1x input, opto-isolated 1x output, opto-isolated Lens mounting C-Mount Optional: F-Mount (M42x1) Optional: F-Mount (M42x1) Optional: Nikon – Bayonet Fastening 2 T-grooves with x M 4 sliding blocks each, 4 reference holes Ø3F7 for fitting pins Ø3m6, 6x M4 screw tap holes on the front Prower consumption Approx. 12 W Ower consumption Approx. 12 W Operating temperature <th>Sensor</th> <th>CCD 1), 512 Pixel</th>	Sensor	CCD 1), 512 Pixel
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Protection class IP 65 with lens protector Power supply 20 VDC 30 VDC Power consumption Approx. 12 W		4 reference holes Ø3F7 for fitting pins Ø3m6,
Power supply 20 VDC 30 VDC Power consumption Approx. 12 W		6x M4 screw tap holes on the front
Power consumption Approx. 12 W	Protection class	IP 65 with lens protector
	Power supply	20 VDC 30 VDC
Operating temperature 10 °C +40 °C	Power consumption	Approx. 12 W
	Operating temperature	10 °C +40 °C

¹⁾ CCD = Charge Coupled Device

Mechanical Dimensions



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