

Lixus-i PN 7926 **Intelligent Line Scan Camera**

he intelligent line scan camera Lixus-i PN 7926 is a high resolution, autonomously functioning measurement and monitoring system. 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 camera can be asynchronously triggered by external events. Several systems can be linked and synchronized.

High flexibility is achieved through a configurable signal processing core. The range of functions is regularly

extended. User-friendly software for Windows® is used to select the functional modules and their parameters. When the modules have been set up and the settings have been stored, the camera works autonomously.

The camera Lixus-i PN 7926 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
- Integrated signal processing for evaluating each scan in real-time
- Extremely high resolution (7.926 picture elements)
- 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
- Fill level inspection
- Web guiding monitoring

Options and accessory

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

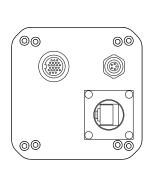


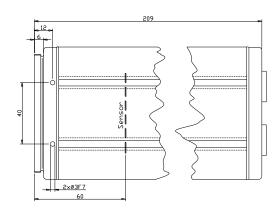
Technical Data

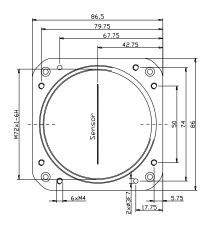
Sensor	CCD ¹⁾ , 7926 Pixel
	7 μm x 7 μm
Sensing area	55,5 mm x 7 μm
Exposure time	1 ms 130 ms, intern or adjustable via synchronous input
Line scan Rate	Max. 990 Scans/s
Control (manually / automatically)	Exposure time, gain, offset (contrast) for a selected section
Interface	RS232 or RS422, up to 115 kBaud, opto-isolated
	Optional: separate RS232 connection for configuration on site
Ethernet	100 Mbit/s, RJ45 connection, opto-isolated (optional)
Inputs	3x digital, opto-isolated
Outputs	4x digital, opto-isolated, 3x digital with analog output
	Optional: 1x analog 4 mA 20 mA or 0 mA 20 mA, opto-isolated
Synchronization	external, asynchronously triggerable
	1 x input, opto-isolated
	1 x output, opto-isolated
Lens mounting	M72x1
	Optional: F-Mount (M42x1)
Fastening	2 T-grooves with 2 M4 sliding blocks each,
	4 reference holes Ø3H7 for fitting pins,
	6x M4-screw tap holes on the front
Protection class	IP 65 with lens protection
Power supply	20 VDC 30 VDC
Power consumption	Approx. 10 W
Operating temperature	0 °C +50 °C

¹⁾ CCD = Charge Coupled Device

Mechanical Dimensions







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