



EXTREMELY
HIGH RESOLUTION

LIXUS-d 7926

Digital CCD Line Scan Camera Specification

SPECIAL FEATURES

- **Extremely high resolution (7.926 pixels)**
- **Scan rate (≤ 990 scans/s)**
- **Rugged, industrial strength model**
- **Operating voltage 20...30 V**
- **Compatible with all cameras of the LIXUS-d - series**

POSSIBLE APPLICATIONS

- **Surface checks**
- **Position, width and diameter measurement**
- **High resolution document scanner**

The digital line scan camera **LIXUS-d 7926** is exceptional in its very high resolution.

The mechanically and electrically sturdy design of all **LIXUS** line scan cameras means that they can be used in rough industrial surroundings.

Integrated signal conditioning in the camera ensures stable operation and flexible integration ability of the camera. The exposure time, gain and video offset (contrast adjustment) can be adapted

via a serial RS232/422 interface or an integrated device. Thus the **LIXUS-d** camera is capable of correcting modified object illumination and ensuring optimal adaptation of the sensor. All parameters can be configured and saved in the camera with user-friendly software under Windows NT/95.

The parallel 8-bit interface according to the RS422 or RS644 standard enables linkage to frame grabbers made by several different manufacturers.

Different means of triggering and synchronization of video data acquisition can be used.

Several **LIXUS-d** cameras can be linked together.

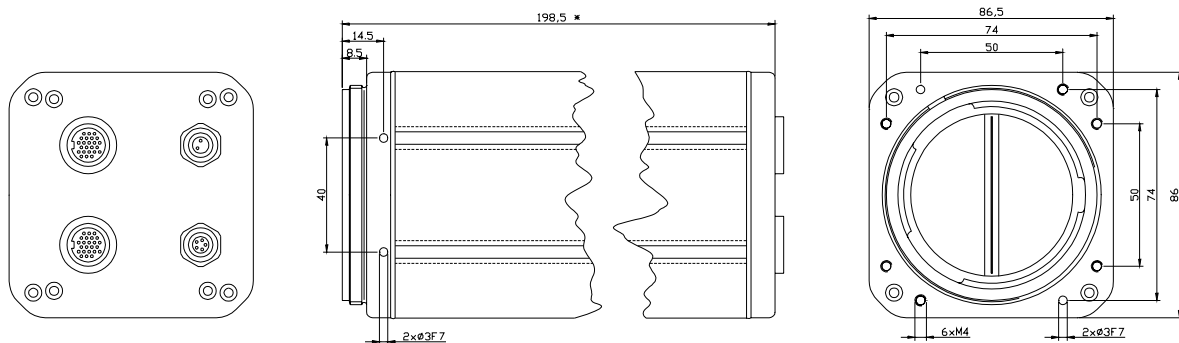
The lens and the sensor are fastened to a low-distortion precision camera head. The critical optical path is inside the camera casing. A protective tube for the lens is sufficient for keeping dust and water (degree of protection IP65) out of the camera. Two T-grooves on the bottom of the camera and thread holes on the front of the camera provide flexible fastening options. Reference holes ensure that positioning is such that it can be reproduced.

LIXUS-d 7926

PHYSICAL/TECHNICAL PROPERTIES

| | |
|--|---|
| Sensor | CCD, 7926 pixels, $7\ \mu\text{m} \times 7\ \mu\text{m}$ |
| Active sensor surface | 55.5 mm x $7\ \mu\text{m}$ |
| Sensitivity | 3.300 lsb / (lux x s) |
| Irregularity | typically 5% |
| Transfer efficiency | typically 0,97 |
| Min. exposure time | 1.0 ms |
| Pixel pulse | 8 MHz |
| Scan rate | max. 990 scans/s |
| Adjustment (manually/automatically) | Exposure time, gain, offset (contrast) with windowing |
| Serial interface | RS232 or RS422 (for configuration purposes) |
| Outputs | 8-bit video data, RS644 / RS422 CLK-OUT pixel pulse, RS644 / RS422 LDV line data valid, RS644 / RS422 |
| Inputs | SYNC-IN synchronous and trigger input, RS644 / RS422 CLK-IN pixel pulse, RS644 / RS422 (optional) |
| Synchronization | internally (continuously), externally, asynchronous triggering |
| Lens connection | M72 x 1 Mamiya-bayonet (optional) F-Mount (M42x1) (optional) |
| Fastening | 2 T-grooves, each with 2 M4 sliding blocks, 4 reference holes $\varnothing 3\text{F}7$ for alignment pins $\varnothing 3\text{m}6$, 6 x M4 thread holes on the front |
| Degree of protection | IP65 (with lens protection tube) |
| Operating voltage | 20 V...30 V DC |
| Power consumption | app. 8 W |
| Operating temperature | 0°C...+40°C |

DIMENSIONS



* Please inquire about the length when using other lens connections!

OPTIONS

- LIXUS-d 7926-422 RS422 interface
(standard RS644)

ACCESSORIES

- Lens protection tube
- Prefabricated connecting cable
- Adjustment aids
- Line lighting LIXUS-LIGHT
- Lenses, lens adapter
- Mains adaptor