BASLER L100 SERIES

The BASLER L100 series line scan cameras are designed for industrial applications, with superb image sensing quality, even at high-speed data acquisition. This series of products, like Basler's other products, has a small footprint, easy Windows® based configuration tool, simple cabling, and single source power supply.



HIGH PERFORMANCE. DIGITAL MONOCHROME. LINE SCAN.

LINE SCAN CAMERAS

Features

- · 1024 & 2048 pixels
- · High sensitivity
- 8-bit or selectable 8- or 10-bit digital output*
- Electronic exposure time control
- · High signal-to-noise ratio

- Anti-blooming
- Programmable via RS 232 port
- Compact housing manufactured with high planar, parallel and angular precision

Outline

This series of cameras is ideal for a variety of applications. The camera outputs digital data via RS-644 LVDS or Channel Link LVDS*. The series allows for asynchronous pixel readout and exposure time control by external synchronization via an ExSync signal. Pixel data can be output as a single 8-bit, selectable 8 or 10-bit* data stream, or a dual 8-bit data stream.

SPECIFICATIONS ATIONS

Camera Series

The L100 Series of Line Scan cameras have been designed for advanced users of digital industrial cameras. The series includes:

- L101 20MHz Pixel Clock 1024 or 2048 Pixels
- L102 30MHz Pixel Clock 1024 or 2048 Pixels
- L103 40MHz Pixel Clock 1024 or 2048 Pixels
- L104 60MHz Pixel Clock 1024 or 2048 Pixels

Additional camera feature options:

- 1024 pixels (1k)
- 2048 pixels (2k)
- Channel Link output (b)*

Sample Applications

- Semiconductor / electronics inspection
- · Ident. code reading
- Document processing / OCR
- · Web inspection
- · And many more

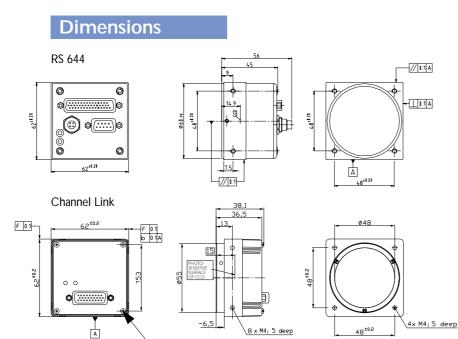
Input Signals

The ExSync (external synchronization) signal on the L100 cameras uses RS-644 technology. The camera can be programmed to function under the control of an externally generated synchronization signal in one of three exposure time control modes. In these modes, programmable, level-control, and free-run the ExSync signal is used to control exposure time and/or line read out.

Output Signals

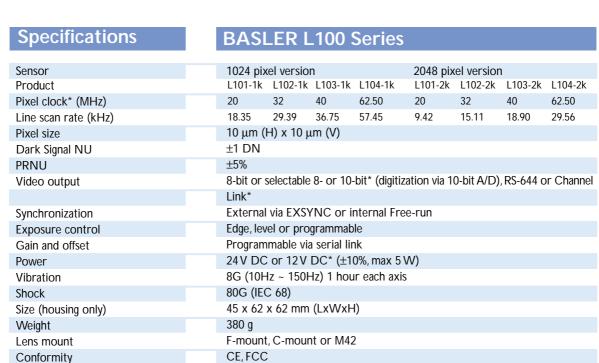
The standard L100 cameras transmit in 8-bit single or dual mode using RS-644 technology. For data output in single mode, the pixels are in sequential order, starting with the first valid pixel and ending with the last pixel. For data output in dual mode, the odd and even pixels are transferred as pairs. The pairs are made up of an odd and the next following are even pixels. The low byte b₇ - b₀ transfers the odd pixels, the high byte b_{15} - b_8 the even pixels. Line valid signals are available to identify when valid line data is being transmitted.

The channel link (b) version of the L100 camera output data is transmitted using 28 bit Channel Link technology. The camera transmits 8-bit or 10-bit output data. Line valid signals are available to identify when valid line data is being transmitted.



Digital Monochrome High Performance Line Scan

Pan head screws ISD 7045 H - M2



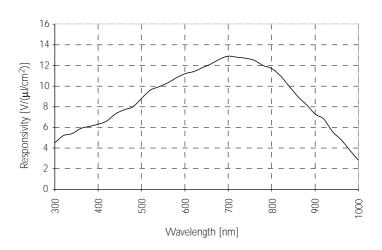
* Available with the "b" option cameras in Q4-2000.

Specifications may change without notice.

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Responsivity

Spectral Response Sensitivity Characteristics Chart has been supplied by the sensor manufacturer.





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Configuration Tool

Today's high performance digital cameras require a robust software tool to take advantage of the variety of features available. Basler-MVC provides, free of charge, the Camera Configuration Tool which is a Windows[®] based software package designed to make setting up our new Basler camera simple.

basler-mvc.com

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