

# SPECIFICATIONS

## PRODUCT SPECIFICATIONS



**DIGITAL CCD LINE SCAN**  
**1024 OR 2048 PIXELS**  
**MONOCHROME**  
**RS-644, CHANNEL LINK® OR**  
**CAMERA LINK™ OUTPUT**  
**LINE RATES UP TO 58.5 KHZ**

## BASLER L100 SERIES

**NEW HIGH RESPONSIVITY**

### Features/Benefits

- Superior image quality improves your image processing results
- Super compact size reduces the space needed in your installation
- Choice of three output types maximizes your system design flexibility
- 100% factory testing ensures consistent product quality
- LED indicators and test image generation capability reduce your integration time and aid troubleshooting
- Windows® setup tool lets you configure your camera with ease
- Electronic exposure time control provides maximum flexibility

### Description

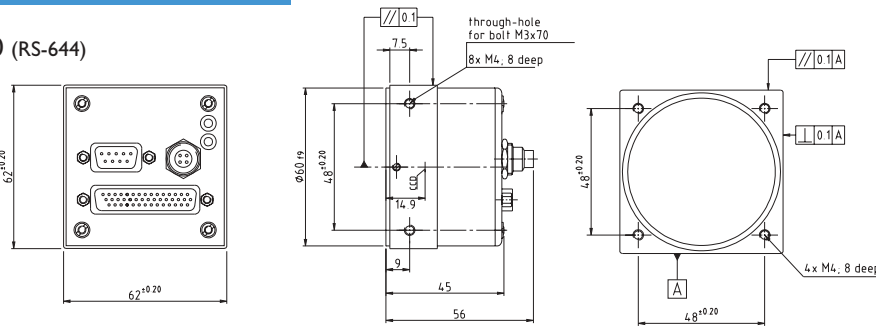
The L100 Series of digital line scan cameras is designed for industrial users who require superior image quality with high-speed data acquisition. The cameras can be triggered via an external sync signal or run in an internally controlled "free-run" mode. L100 cameras operate with a single voltage power supply and have simple cabling requirements. A combination of features such as digital shift, test images, and indicator LEDs, ensure that these versatile cameras provide an exceptional price/performance ratio.

### Applications

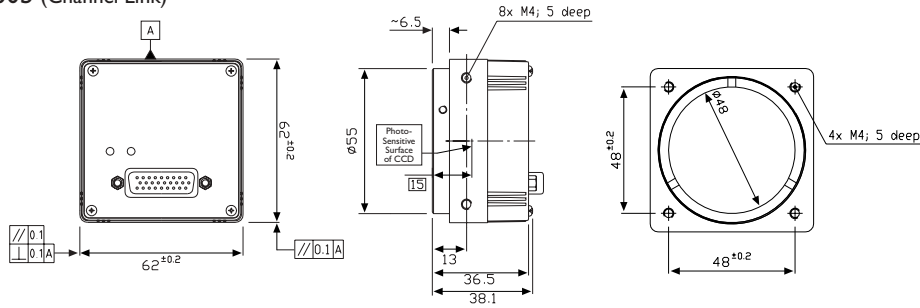
- Document scanning
- Print inspection
- Web inspection
- Production line item inspection
- OCR and 2-D bar code reading
- Many other vision applications

## Dimensions (in mm)

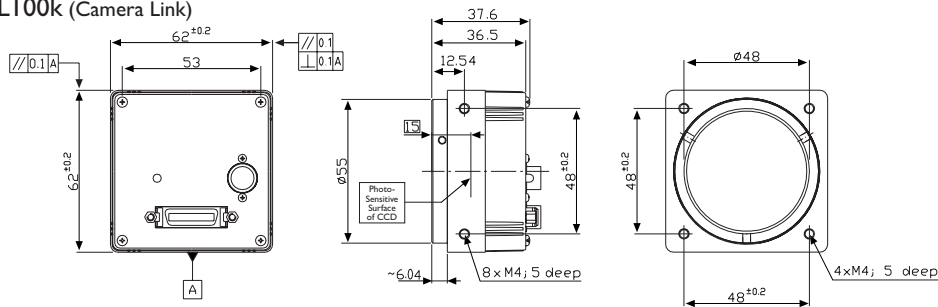
### L100 (RS-644)



### L100b (Channel Link)



### L100k (Camera Link)



## Specifications

	RS-644			Channel Link			Camera Link (Base)		
	L101	L103	L104	L101b	L103b	L104b	L101k	L103k	L104k
Sensor Size	1024 or 2048 pixels, available on all cameras								
Sensor Type	Linear CCD used on all cameras								
Pixel Size	10 μm x 10 μm with a 10 μm pitch								
Pixel Speed (MHz)	20	40	62.5	20	40	62.5	20	40	62.5
Max. Line Rate (KHz)	1k Sensor:			1k Sensor:			1k Sensor:		
	18.3	36.7	57.4	18.4	36.7	58.5	18.7	35.7	58.5
	2k Sensor:			2k Sensor:			2k Sensor:		
	9.4	18.9	29.5	9.5	18.7	29.2	9.5	18.7	29.2
Video Output Formats	Single tap 8 bits or dual tap 8 bits			Single or dual tap 8 or 10 bits (selectable)			Single or dual tap 8 or 10 bits (selectable)		
Synchronization	Via external trigger or free-run*								
Exposure Control Models	Edge-controlled, level-controlled, or programmable, on all cameras								
Power Requirements	24VDC (±15%)			12VDC (±10%)			12VDC (±10%)		
max. W	6.0 W	7.0 W	8.0 W	6.0 W	8.0 W	10.0 W	6.5 W	8.5 W	10.0 W
Lens Mounts	C-mount or F-mount available for all cameras, F-mount recommended for 2k								
Housing Size (L x W x H)	45 mm x 62 mm x 62 mm			38.1 mm x 62 mm x 62 mm			37.6 mm x 62 mm x 62 mm		
Weight (with F-mount adapter)	max. 385 g			max. 270 g			max. 285 g		
Conformity	CE and FCC								

Specifications are subject to change without prior notice.

\* Free-run not available on RS-644 cameras

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