SPECIFICATIONS

PRODUCT SPECIFICATIONS

DIGITAL CCD AREA SCAN
COLOR OR MONOCHROME
IEEE 1394 OR
CAMERA LINK™ OUTPUT
UP TO 15 FPS AT 1.45 MEGAPIXELS

BASLER A100 SERIES

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**
- **Test image generation capability reduces your integration time and aids troubleshooting**
- **Area of Interest (AOI) scanning allows higher frame rates**
- **Low smear feature improves your performance when using a pinpoint light source**
- **Electronic exposure time control provides maximum flexibility**

Description

The A100 Series of high-performance, digital cameras is ideal for a variety of industrial applications. The cameras can be triggered via an external sync signal or run in an internally controlled "free-run" mode. A100 cameras operate with the easy to use Camera Link™ or IEEE 1394 interface. A combination of features such as low smear, test images, and indicator LEDs, ensure that these versatile cameras provide an exceptional price/performance ratio.

Applications

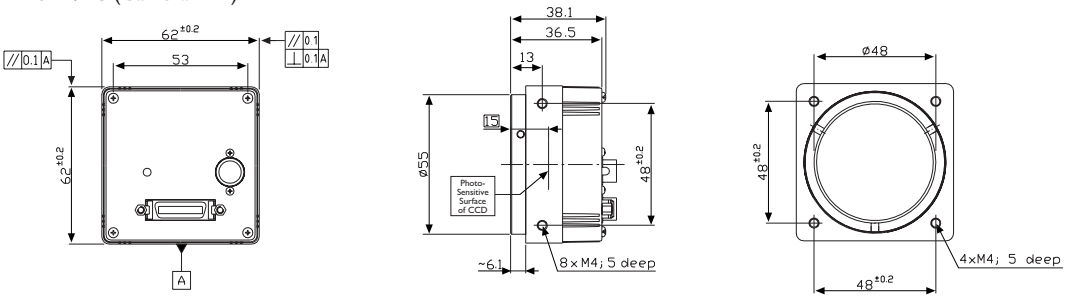
- Semiconductor and component inspection
- Manufacturing quality control
- Traffic control
- Food and beverage inspection
- Microscopy and medical imaging
- Many other vision applications

BASLER VISION TECHNOLOGIES

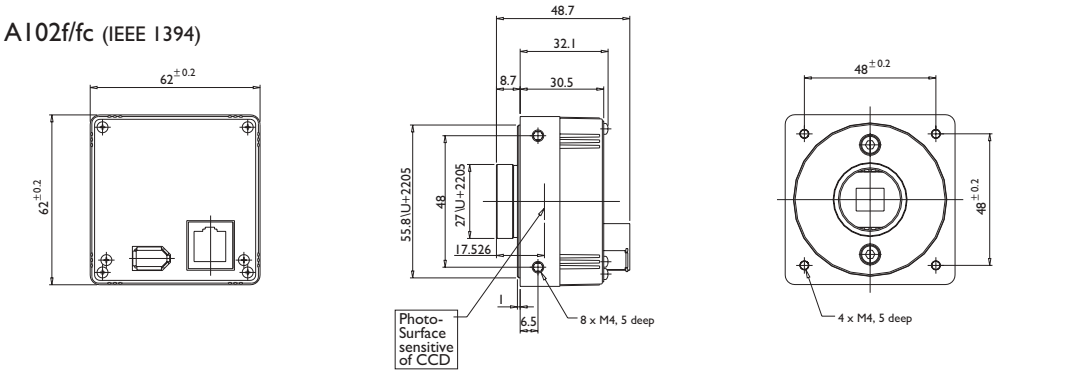
BASLER VISION COMPONENTS

Dimensions (in mm)

A102k/kc (Camera Link)



A102f/fc (IEEE 1394)



Specifications	A102k	A102kc	A102f	A102fc
Sensor Size (H x V Pixels)	1392 x 1040	raw: 1392 x 1040 RGB: 1391 x 1039	1392 x 1040	1388 x 1038
Sensor Type	Progressive Scan CCD			
Pixel Size (in µm)	6.45 x 6.45	6.45 x 6.45	6.45 x 6.45	6.45 x 6.45
Pixel Clock	28 MHz	28 MHz	Not Applicable	Not Applicable
Max. Frame Rate at Full Resolution	14.8 frames/s	14.8 frames/s	15 frames/s	15 frames/s
Color / Mono	Mono	Color	Mono	Color
Video Output Type	Camera Link (Base)*	Camera Link (Base)*	IEEE1394	IEEE1394
Video Output Format	Single Pixel 8, 10, or 12 bits	Single Pixel 8, 10, or 12 bits 24 bit RGB	Mono: 8 or 16 (12 bit/pixel)	Mono: 8 or 16 (12 bit/pixel) Color: YUV4:2:2 or raw data
Synchronization	Via external trigger or free-run	Via external trigger, or free-run	Via external trigger, via the 1394 bus or free run	Via external trigger, via the 1394 bus or free run
Exposure Control	Level-controlled or programmable	Level-controlled or programmable	Programmable via the 1394 bus	Programmable via the 1394 bus
Power Requirements	12 VDC (±10%) max. 3.5 W	12 VDC (±10%) max. 3.5 W	8-40 VDC, max. 4.0 W (at 12 VDC)	8-40 VDC, max. 4.0 W (at 12 VDC)
Lens Mounts	C-mount or F-mount	C-mount or F-mount	C-mount	C-mount
Housing Size (L x W x H)	38.1 mm x 62 mm x 62 mm	38.1 mm x 62 mm x 62 mm	40.8 mm x 62 mm x 62 mm	40.8 mm x 62 mm x 62 mm
Weight	max. 292 g	max. 292 g	ca. 240 g	ca. 240 g
Conformity	CE, FCC			

Specifications are subject to change without prior notice.

* The output is RS-644 LVDS when this camera is used with an optional Basler Interface Converter (BIC)

Germany, Headquarters
Phone +49 4102 463 500
Fax +49 4102 463 599
vc.sales.europe@baslerweb.com

USA
Phone +1 610 280 0171
Fax +1 610 280 7608
vc.sales.usa@baslerweb.com

Singapore
Phone +65 6425 0472
Fax +65 6425 0473
vc.sales.asia@baslerweb.com

www.basler-vc.com

02/04 ©