SPECIFICATIONS

PRODUCT SPECIFICATIONS

DIGITAL CCD AREA SCAN

COLOR OR MONOCHROME

CHANNEL LINK® OR IEEE 1394 OUTPUT

UP TO 80 FPS AT VGA RESOLUTION

BASLER A300 SERIES

Features/Benefits

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

Description

The A300 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. A300 cameras operate with a single voltage power supply and have the advantage of remarkably 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

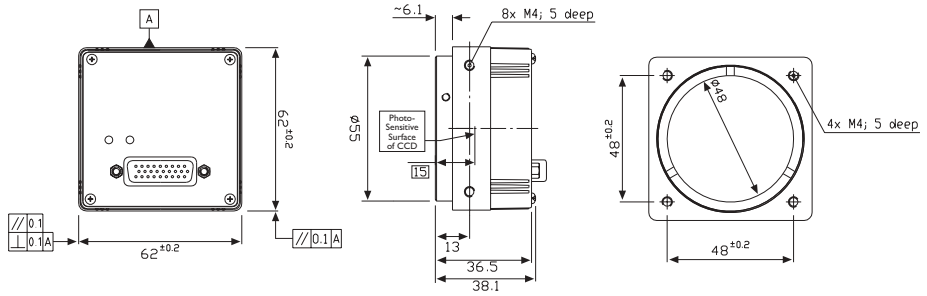
- Semiconductor and component inspection
- Manufacturing quality control
- Food and beverage inspection
- Microscopy and medical imaging
- Biometrics
- Many other vision applications

BASLER VISION TECHNOLOGIES

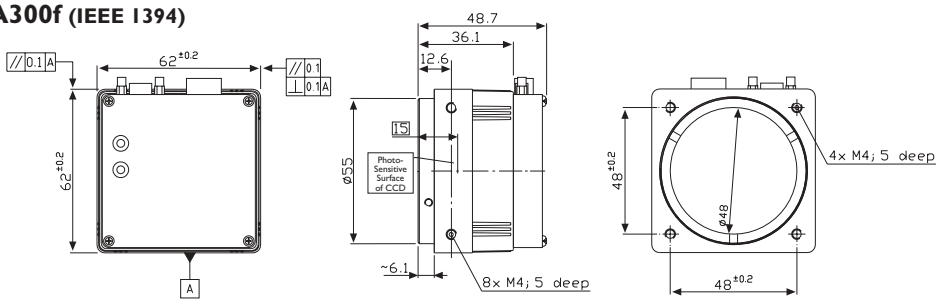
BASLER VISION COMPONENTS

Dimensions (in mm)

A300b (Channel Link)



A300f (IEEE 1394)



Specifications	A301b/bc	A302b/bc	A301f/fc	A302fs/fc
Sensor Size (H x V Pixels)	658 x 494	782 x 582	658 x 494	782 x 582
Sensor Type	Progressive Scan CCD			
Pixel Size (in µm)	9.9 x 9.9	8.3 x 8.3	9.9 x 9.9	8.3 x 8.3
Pixel Clock	18 MHz	18 MHz	Not Applicable	Not Applicable
Max. Frame Rate at Full Resolution	80 frames/s	60 frames/s	80 frames/s	30 frames/s
Color / Mono	Color or Mono			
Video Output Type	Channel Link*	Channel Link*	IEEE 1394	IEEE 1394
Video Output Format	Dual Pixel 8 or 10 bits	Dual Pixel 8 or 10 bits	Mono: 8 bits/pixel Color: 8 bits/pixel (raw data)	Mono: 8 bits/pixel Color: YUV 4:2:2 or raw data
Synchronization	Via external trigger or free-run	Via external trigger or free-run	Via external trigger or the 1394 bus	Via external trigger or the 1394 bus
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. 4.0 W	12 VDC (±10%) max. 4.0 W	12 VDC (±10%) max. 6.0 W	12 VDC (±10%) max. 6.0 W
Lens Mounts	C-mount or F-mount			
Housing Size (L x W x H)	38.1 mm x 62 mm x 62 mm		48.7 mm x 62 mm x 62 mm	
Weight	max. 265 g	max. 265 g	max. 310 g	max. 310 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)

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