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BASLER ACE GIGE USB3.0 AND CAMERALINK CAMERAS

Ace Classic, Ace U and Ace L

ACA4096-40UC
Ace L USB3.0 Camera, IMX255 1" CMOS, 42fps, Colour, C-Mount



- Resolution: VGA to 20 MP and frame rate: up to 751 fps
- Supported by Pylon Suite software and open-source SDKs for easy image acquisition and fast application development
- CMOS Sensors with NIR function
- Camera Link with PoCL
- Very small housing

PRODUCT DESCRIPTION

Basler Ace Cameras, launched in 2009, are the smallest GigE camera on the market, also available with USB3.0 and Camera Link interface. With a small housing of only 29 x 29mm, the ace is suitable for a large range of vision applications, even where space is limited. There are over 130 models in the Ace range, split is Ace Classic, Ace U and Ace L. All featuring a range of resolutions from VGA to 20mp, speeds of up to 751 fps and sensors from a range of suppliers

Ace Classic model cameras have an excellent price/performance ratio and also feature a range of comprehensive sensors, including, CMOS from CMOSIS, e2V, ON Semiconductor (MT series) and CCD from Sony. The Ace classic range is available in GigE, USB3.0 and CameraLink.

Ace U cameras have the same compact footprint of the Ace Classic range (29 x 29mm), with the addition of unique PGI feature set from Basler and new CMOS sensors, in GigE and USB3.0 interfaces.

Ace L cameras feature the same additional firmware as Ace U but with high resolution 9 and 12mp Sony Pregius CMOS sensors, and optical formats above 1”, to accommodate these larger sensors the Ace L is slightly larger with a footprint of 40mm x 30mm. With frame rates up to 40fps, the Ace L is available in GigE and USB3.0.

TECHNICAL DATA

Sensor model	IMX255
Resolution max	4096 x 2168 px

Frame rate max	42 fps
Mono/color	Color
Shutter type	Global
Interface	USB3.0
3612_Pixel size (µm)	3.45 x 3.45
Sensor size	1"
Digital outputs	1
Digital inputs	1
Approvals	CE, FCC, GenICam, RoHS, UL, EAC, USB3 Vision
IP class	IP30
Sensor supplier	Sony
Sensor Type	CMOS
Lens barrel	C-mount
Weight	80 g
Length	35.8 mm
Width	40 mm
Height	30 mm
Power consumption	3.8 W
Operating temperature	0°C … 50°C

