

Basler ace2 a2A4096-9gmBAS Monochrome GigE Basic Camera

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Basler ace2 GigE Cameras (Front)



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Spectrum: Monochrome

General

Type: Monochrome Camera	Model Number: a2A4096-9gmBAS
Manufacturer: Basler	Camera Series: Ace2

Physical & Mechanical Properties

Dimensions (mm): 55.5 x 29 x 29 mm (without lens mount or connectors)	Weight (g): 100
Housing: Full	

Sensor

Sensor Format: 1/1.1"	Resolution (Megapixels): 12.30
Frame Rate (fps): 9.00	Pixels (H x V): 4,096 x 3,000
Pixel Size, H x V (µm): 2.74 x 2.74	Sensing Area, H x V (mm): 11.22 x 8.22
Imaging Sensor: Sony IMX545	Type of Sensor: Progressive Scan CMOS
Shutter Type: Global	Pixel Depth: 8/10/12 Bit
Exposure Time: hardware trigger & freely programmable	Machine Vision Standard: GigE Vision 2.0, GenICam

Electrical

Power Consumption (W): 3	
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Hardware & Interface Connectivity

Interface: GigE	Connector: GigE, RJ45 with Screw Locks
Power Supply: PoE or 12-24 VDC	GPIOs: 1 opto-coupled input line,

		2 general purpose I/O (GPIO) lines
Synchronization:	Hardware Trigger (GPIO), Software Trigger, or Free Run	Interface Port Orientation: Back Panel
GPIO Connector Type:	M8 6-pin	

Threading & Mounting

Mount:	C-Mount	Mounting Threads: ¼-20 with Tripod Mount Adapter #16-641
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Environmental & Durability Factors

Operating Temperature (°C):	-10 °C - 60 °C	
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Regulatory Compliance

Certificate of Conformance:	View	
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Product Details

- SONY Pregius S Sensors Available with up to 24MP
- Proven Compact Housing (29 x 29mm)
- Powerful Computer Vision Feature Set with Optional Beyond Features
- [Basler ace GigE Cameras](#) Also Available

Basler ace2 GigE/5GigE Cameras are available in two versions that provide optimized hardware design, proven compact and robust housing, and state of the art CMOS sensor technology with excellent image quality from Sony's 2nd-Gen Pregius, 3rd-Gen STARVIS, or the latest 4th-Gen Pregius S sensors. These second-generation Ace cameras include all of the components of the first-generation Ace cameras along with integrated features such as a status LED, removable IR cut filter, and robust M8 connector. The Basler ace2 GigE/5GigE Camera Basic version offers excellent price to performance ratio with powerful Computer Vision feature set, while the Pro version unlocks unique advanced Beyond features such as Pixel Beyond and Compression Beyond for maximum performance to meet with demanding application requirements. These cameras include the industry proven Basler Pylon SDK Software and Driver and conform to GenICam (GigE Vision 2.0) standards, making them a fast and cost-effective solution to software integration. Basler ace2 Cameras are available in both GigE, 5GigE and USB3.0 interfaces and are ideal for a wide range of applications such as factory automation and industrial robotics.

Technical Information

IMX676 Sensor QE Curve

IMX900 Sensor QE Curve

GMAX2505 Sensor QE Curve

IMX546 Sensor QE Curve

IMX545 Sensor QE Curve

GMAX2509 Sensor QE Curve

GMAX2518 Sensor QE Curve

IMX547 Sensor QE Curve

E2525A Sensor QE Curve

Accessories

Note: Compatible accessories for individual stock numbers may vary. If unsure about which accessories work with your products, please contact us [here](#).

	Title	Compare	Stock Number	Price	Buy
MORE+	Basler ace2 GigE Power Supply, M8 6pin		#16-644	A\$104.00 Request Quote	10 In Stock <input type="text" value="1"/>
MORE+	US Plug Power Supply Cable, 1.8m		#15-280	A\$19.00 Request Quote	CONTACT US <input type="text" value="1"/>
MORE+	EU Plug Power Supply Cable, 1.8m		#15-279	A\$19.00 Request Quote	3 In Stock <input type="text" value="1"/>
MORE+	Basler ace2 GPIO cable, M8 6pin to Open, 5m		#16-643	A\$67.00 Request Quote	2 In Stock <input type="text" value="1"/>
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MORE+	Power Over Ethernet (PoE) Single Port injector		#68-469	A\$106.00 Request Quote	CONTACT US <input type="text" value="1"/>
MORE+	Basler GigE Ethernet Card, 4 Ports for GigE Cameras		#75-221	A\$470.00 Request Quote	CONTACT US <input type="text" value="1"/>
MORE+	GPIO & Power Cable for Basler ace cameras, open end, 5m		#75-223	A\$78.00 Request Quote	2 In Stock <input type="text" value="1"/>
MORE+	Basler AC Power Cord USA, 1.8m		#90-033 NEW	A\$13.00 Request Quote	CONTACT US <input type="text" value="1"/>

Related Products



Basler ace GigE Cameras



Basler ace USB 3.0 Cameras



Basler ace2 USB 3.0 Cameras



Basler PowerPack Microscopy Cameras

Imaging Lens Selector



- Factory Automation
- Telecentric
- M12

Custom Sensor

Camera Model

Number of Horizontal
Pixels:

1

Number of Vertical
Pixels:

2

Pixel Size (μm):

3

Working Distance (mm):

4

Horizontal Field of View
(mm):

5



Disclaimer: Values represent theoretical values from lens design software. Actual lens performance varies due to manufacturing tolerances.

Resources

Media Type

- Application Note
- Video
- Published Article
- FAQ
- Glossary
- Technical Tool

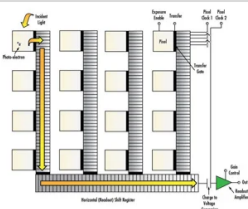
Figure 1a: An illustration of how spot size changes by wavelength from 470nm (blue) to 880nm (IR) at f/2.8.

Figure 1b: How the pixels of a sensor interpret the spot sizes in Figure 1a.

APPLICATION NOTE
Sensor Performance and Limitations

APPLICATION NOTE
Imaging Electronics 101: Basics of Digital...

APPLICATION NOTE
Imaging Electronics 101: Camera Resolution fo...



APPLICATION NOTE

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VIDEO

How Do
Cameras
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