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# Basler ace2 a2A

# Basic Camera

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Basler ace2 GigE Cameras (Front)



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Submit

1

€2.170<sup>,00</sup>

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### Volume Pricing

Qty 1+	€2.170,00 each
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### Product Downloads

- User Manual
- Software
- EO Spec Sheet

**Spectrum:** Monochrome

## General

**Type:** Monochrome Camera

**Model Number:** a2A4504-5gmBAS

**Manufacturer:** Basler

**Camera Series:** ace2

## Physical & Mechanical Properties

**Dimensions (mm):** 55.5 x 29 x 29 (excludes connectors and lens mount)

**Weight (g):** <105

**Housing:** Full

## Sensor

**Image Buffer:** Not Specified

**Sensor Format:** 1.1"

**Resolution (Megapixels):** 20.20

**Frame Rate (fps):** 5.00

**Pixels (H x V):** 4,504 x 4,504

**Pixel Size, H x V (µm):** 2.74 x 2.74

**Sensing Area, H x V (mm):** 12.3 x 12.3

**Imaging Sensor:** Sony IMX541

**Type of Sensor:** Progressive Scan CMOS

**Shutter Type:** Global

**Pixel Depth:** 8/10/12 Bit

**Exposure Time:** Freely Programmable

**Dynamic Range (dB):** 70.9

**Machine Vision Standard:** GigE Vision 2.0, GenICam

## Electrical

**Power Consumption (W):** 3.5

## Hardware & Interface Connectivity

**Interface:** GigE (PoE)

**Connector:** GigE, RJ45 with Screw Locks

**Power Supply:** Power over Ethernet (PoE) or via GPIO with [#16-644](#)

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**Synchronization:** Hardware Trigger (GPIO), Software Trigger, or Free-Run

**Interface Port Orientation:** Back Panel

**GPIO Connector Type:** 6-pin M8

## Threading & Mounting

**Mount:** C-Mount

**Mounting Threads:** ¼-20 with Tripod Mount Adapter [#16-641](#)

## Environmental & Durability Factors

**Operating Temperature (°C):** -10 to +60

**Storage Temperature (°C):** -20 to +80

## Regulatory Compliance

**RoHS 2015:** [Compliant](#)

**Certificate of Conformance:** [View](#)

**Reach 235:** [Compliant](#)

## Product Details

Sony IMX541

- 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 in... r products, please contact us [here](#).

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	Title			Buy
<b>MORE+</b>	Basler ace2 ¼-20 Tripod Mount Adapter	#16-641	Request Quote	20+ In Stock <input type="text" value="1"/>
<b>MORE+</b>	Basler ace2 GPIO cable, M8 6pin to Open, 10m	#16-642	€61,00 Request Quote	4 In Stock <input type="text" value="1"/>
<b>MORE+</b>	Basler ace2 GPIO cable, M8 6pin to Open, 5m	#16-643	€42,00 Request Quote	2 In Stock <input type="text" value="1"/>
<b>MORE+</b>	Cable GigE Cat 6 SFTP 5m	#68-470	€10,00 Request Quote	5 In Stock <input type="text" value="1"/>
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<b>MORE+</b>	Cable GigE Cat 6 SFTP 30m	#68-473	€39,00 Request Quote	1 In Stock <input type="text" value="1"/>
<b>MORE+</b>	Power Over Ethernet (PoE) Single Port injector	#68-469	€66,00 Request Quote	2 In Stock <input type="text" value="1"/>
<b>MORE+</b>	8mm Focal Length, HP Series Fixed Focal Length Lens	#86-569	€950,00 Request Quote	20+ In Stock <input type="text" value="1"/>
<b>MORE+</b>	12mm Focal Length, HP Series Fixed Focal Length Lens	#86-570	€725,00 Request Quote	CONTACT US <input type="text" value="1"/>
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PoE Camera  
€2.470,00

MC, Sony IMX541, 20.4MP,  
Monochrome Camera  
€1.695,00

## Imaging Lens Selector

 Imaging

- Factory Automation
- Telecentric
- M12

- Custom Sensor
- Camera Model

Camera Model:

Number of Horizontal  
Pixels:

1

Number of Vertical  
Pixels:

2

Pixel Size ( $\mu\text{m}$ ):

3

Working Distance (mm):

4

Horizontal Field of View  
(mm):

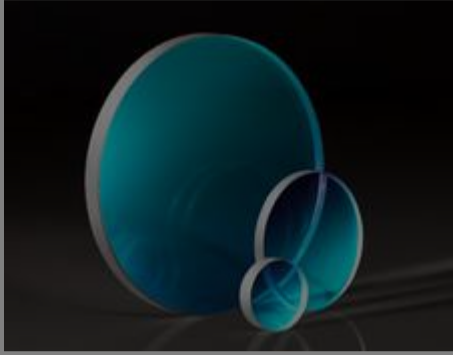
5



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

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#34-243 - 50mm Dia., Uncoated, 30' Wedge, Fused Silica Wedged Window  
€265,00

#66-509 - 125mm, Metric Z-Stage  
€1.090,00

#86-571 - 16mm Focal Length, HP Series Fixed Focal Length Lens  
€725,00

#86-573 - 35mm Focal Length, HP Series Fixed Focal Length Lens  
€575,00

## Resources

### Media Type

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

APPLICATION NOTE

Sensor Performance and Limitations

APPLICATION NOTE

Imaging Electronics 101: Basics of Digital...

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VIDEO

How Do Cameras Work?

PUBLISHED ARTICLE

Advancements in Short Wave Infrared Sensors

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