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# Basler ace2 a2A4504-5gmPRO Monochrome GigE Pro Camera

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Basler ace2 GigE Cameras (Front)



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## Product Downloads

Monochrome **Spectrum:**

## General

Monochrome Camera **Type:**

a2A4504-5gmPRO **Model Number:**

Basler **Manufacturer:**

ace2 **Camera Series:**

## 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):**  
3.6

## Hardware & Interface Connectivity

**Interface:**  
GigE (PoE)

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

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

**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:**  
6-pin MB

## Threading & Mounting

**Mount:**  
C-Mount

**Mounting Threads:**  
1/4-20 with Tripod Mount Adapter [#16-641](#)

## Environmental & Durability Factors

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

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

## Regulatory Compliance

**Compliant** **RoHS 2015:**

**View** **Certificate of Conformance:**

**Compliant** **Reach 235:**

## 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 MB 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

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