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## Basler ace2 a2A4504-18umBAS Monochrome USB3 Basic Camera

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Basler ace2 USB 3.0 Cameras (Front)



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Monochrome **Spectrum:**

### General

Monochrome Camera **Type:**

a2A4504-18umBAS **Model Number:**

Basler **Manufacturer:**

ace2 **Camera Series:**

## Physical & Mechanical Properties

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

**Weight (g):**  
<85

**Housing:**  
Full

## Sensor

**Image Buffer:**  
Not Specified

**Sensor Format:**  
1.1"

**Resolution (Megapixels):**  
20.20

**Frame Rate (fps):**  
18.00

**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):**  
70.8

**Machine Vision Standard:**  
USB3 Vision v1.0, GenICam

## Electrical

**Power Consumption (W):**  
3.7

## Hardware & Interface Connectivity

**Interface:**  
USB 3.0

**Connector:**  
USB 3.0, Micro-B

**Power Supply:**  
Power over USB

**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:**

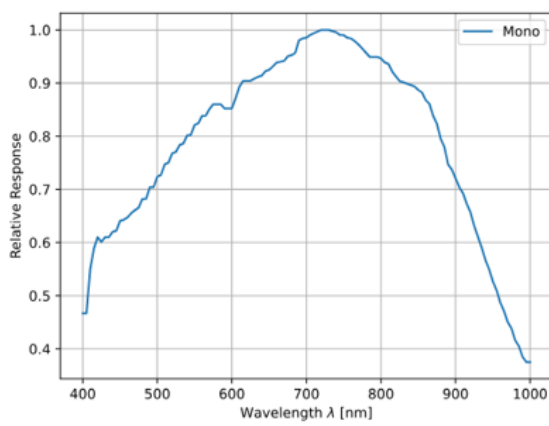
**Compliant** **Reach 235:**

## Product Details

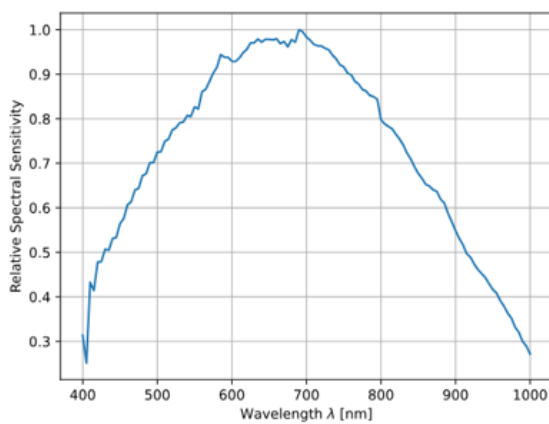
- USB 3.0 with SONY Pregius S Sensors up to 24MP and 160 fps
- Proven Compact Housing (29 x 29mm)
- Powerful Computer Vision Feature Set with Optional Beyond Features
- [Basler ace USB 3.0 Cameras](#) Also Available

Basler ace2 USB 3.0 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 USB 3.0 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 (USB3 Vision) standards, making them a fast and cost-effective solution to software integration. Basler ace2 Cameras are available in both USB 3.0 and GigE interfaces and are ideal for a wide range of applications such as factory automation and industrial robotics.

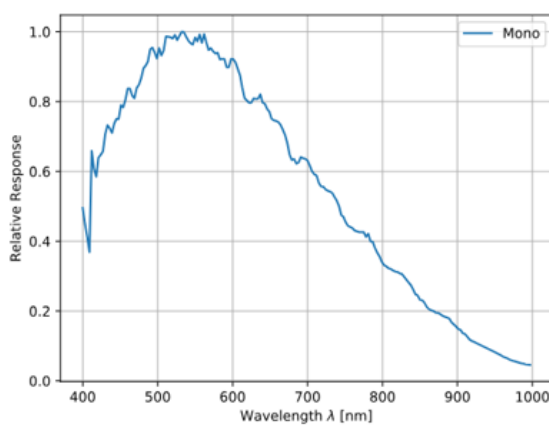
## Technical Information



*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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