

Basler ace2 a2A2840-48umBAS Monochrome USB3 Basic Camera

A close-up, high-contrast photograph of a metallic, cylindrical industrial component, likely a lens or sensor housing. The component is made of a brushed metal and features a large, circular opening on the right side. Inside this opening, a bright blue light source is visible, creating a strong glow and casting reflections on the surrounding metal surfaces. The background is dark and out of focus, emphasizing the component's form and the internal light.



☐ - 1 ☐ + £804^{.00}

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General	
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a2A2840-48umBAS

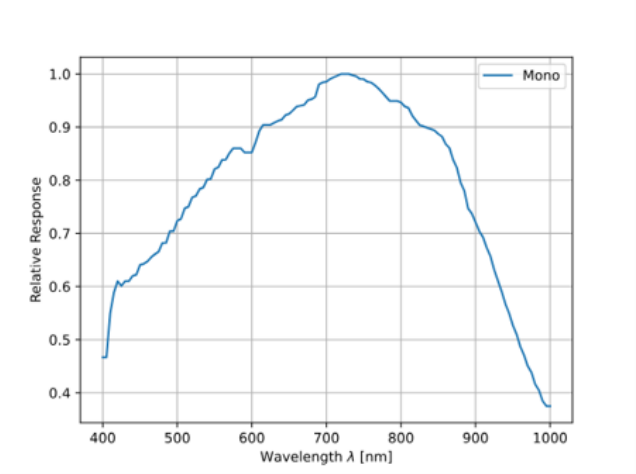
Basler	Manufacturer:
ace2	Camera Series:
Physical & Mechanical Properties	
42.8 mm X29 mm X29 mm	Dimensions (mm):
85	Weight (g):
Full	Housing:
Sensor	
2/3"	Sensor Format:
8.10	Resolution (Megapixels):
48.00	Frame Rate (fps):
2,840 x2,840	Pixels (H x V):
2.74 x2.74	Pixel Size, H x V (µm):
7.78 x7.78	Sensing Area, H x V (mm):
Sony IMX546	Imaging Sensor:
Progressive Scan CMOS	Type of Sensor:
Global	Shutter Type:
8/10/12 Bit	Pixel Depth:
hardware trigger & freely programmable	Exposure Time:
70.2 dB	Dynamic Range (dB):
USB 3.0 Vision, GenICam	Machine Vision Standard:
Electrical	
3.2	Power Consumption (W):
Hardware & Interface Connectivity	
USB 3.0	Interface:
USB 3.0, Micro-B	Connector:
Via USB 3.0 interface	Power Supply:
1 opto-coupled input line, 2 general purpose I/O (GPIO) lines	GPIOs:
Hardware Trigger (GPIO), Software Trigger, or Free Run	Synchronization:
Back Panel	Interface Port Orientation:
M8 6-pin	GPIO Connector Type:
Threading & Mounting	
C-Mount	Mount:
1/4-20 with Tripod Mount Adapter #16-641	Mounting Threads:
Environmental & Durability Factors	
-10 °C - 60 °C	Operating Temperature (°C):
Regulatory Compliance	
View	Certificate of Conformance:

Product Details

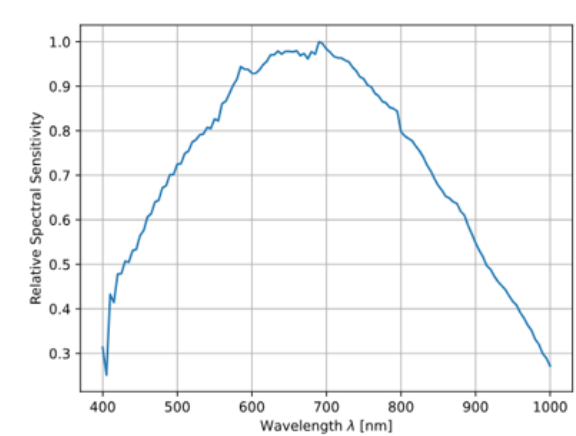
- USB 3.0 with SONY Pregius S Sensors up to 24MP and 160 fps
- Proven Compact Housing (29 x 29mm)
- Powerful Computer Vision Feature Set with Optional Beyond Features
- [Basler ace USB 3.0 Cameras](#) Also Available

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.

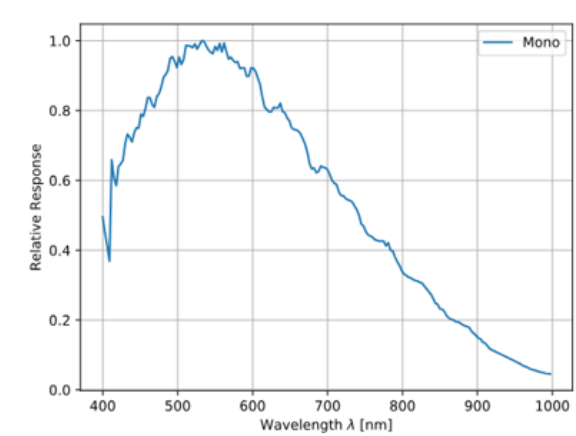
Technical Information



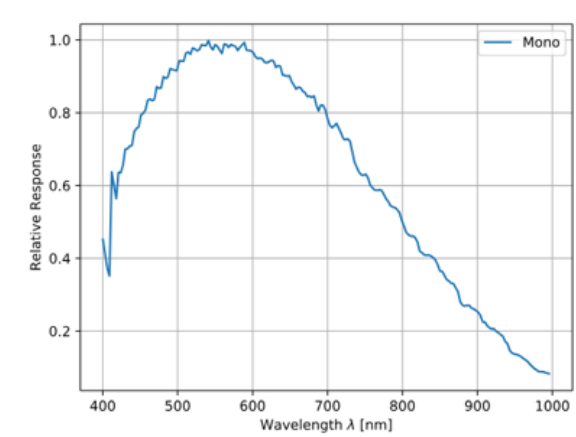
IMX676 Sensor QE Curve



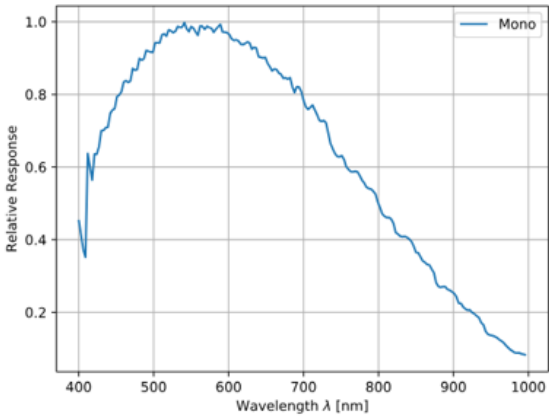
IMX900 Sensor QE Curve



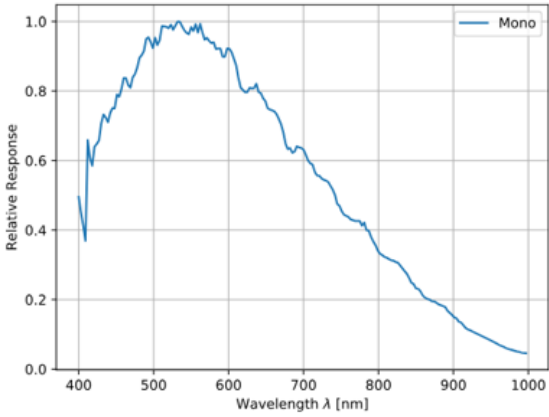
GMAX2505 Sensor QE Curve



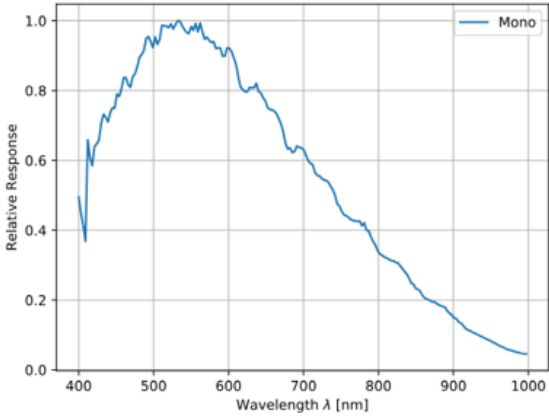
IMX546 Sensor QE Curve



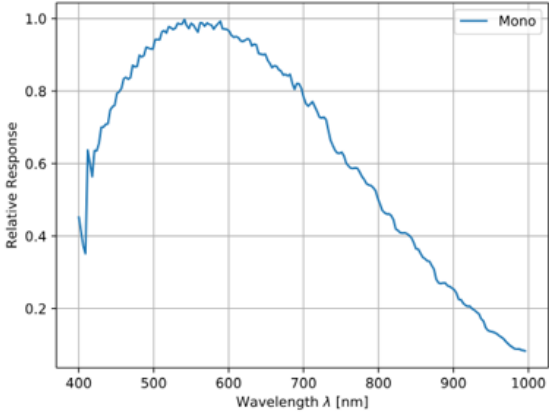
IMX545 Sensor QE Curve



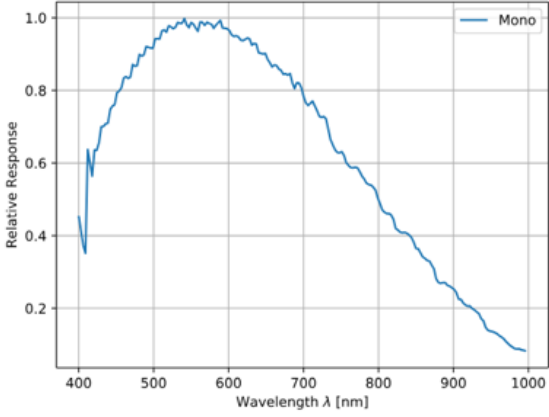
GMAX2509 Sensor QE Curve



GMAX2518 Sensor QE Curve



IMX547 Sensor QE Curve



E2525A Sensor QE Curve