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## Basler ace acA2040-90um Monochrome USB 3.0 Camera

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Basler ace USB 3.0 Cameras (Front)



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### Product Downloads

Monochrome **Spectrum:**

### General

Monochrome Camera **Type:**

acA2040-90um **Model Number:**

Basler **Manufacturer:**

ace **Camera Series:**

## Physical & Mechanical Properties

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

80 **Weight (g):**

Full **Housing:**

## Sensor

Not Specified **Image Buffer:**

1" **Sensor Format:**

4.20 **Resolution (Megapixels):**

90.00 **Frame Rate (fps):**

2,048 x 2,048 **Pixels (H x V):**

5.5 x 5.5 **Pixel Size, H x V (µm):**

11.26 x 11.26 **Sensing Area, H x V (mm):**

CMOSIS CM4000 **Imaging Sensor:**

Progressive Scan CMOS **Type of Sensor:**

Global **Shutter Type:**

10/12 bit **Pixel Depth:**

Freely Programmable **Exposure Time:**

58.7 **Dynamic Range (dB):**

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

## Electrical

3.2 **Power Consumption (W):**

## Hardware & Interface Connectivity

USB 3.0 **Interface:**

USB 3.0, Micro-B with Screw Locks **Connector:**

Power over USB **Power Supply:**

1 opto-coupled input line, 1 opto-coupled output line, 2 general purpose I/O (GPIO) lines **GPIOs:**

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

Back Panel **Interface Port Orientation:**

6-pin Hirose (HR10) **GPIO Connector Type:**

Software Driver: Windows 32 and 64 bit, Linux, OS X **Operating System:**

## Threading & Mounting

C-Mount **Mount:**

1/4-20 with Tripod Mount Adapter [#88-517](#) **Mounting Threads:**

## Environmental & Durability Factors

Operating Temperature (°C):  
0 to +50

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

## Regulatory Compliance

Compliant **RoHS 2015:**

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

Compliant **Reach 235:**

## Product Details

- High Speed USB 3.0 Interface
- Ultra-Small Form Factor
- Fully USB3 Vision Compliant

Basler ace USB 3.0 Cameras are an ideal choice for analog camera users looking to upgrade to digital, or for FireWire or USB 2.0 users looking for faster data transfer rates. Basler ace USB 3.0 Cameras are fully USB3 Vision compliant and feature a small, 29 x 29mm form factor that makes them easy drop-in replacements for many analog, FireWire, or USB 2.0 cameras. Additionally, these USB 3.0 cameras feature screw-locking USB 3.0 ports for increased ruggedness in demanding applications, such as factory floor use. All cameras include the Basler Pylon SDK software and driver.

## Technical Information



MT9P031 Sensor QE Curve

## Calibration Services