

Basler ace acA2040-90um NIR USB 3.0 Camera



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SPECIFICATIONS

General

Type:

NIR Camera

Manufacturer:
Basler

Camera Family:
ace

Model Number:
acA2040-90um

Physical & Mechanical Properties

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

Weight (g):
80

Housing:
Full

Sensor

Image Buffer:
Not Specified

Imaging Sensor:
CMOSIS CM4000

Type of Sensor:
Progressive Scan CMOS

Type of Shutter:
Global

Camera Sensor Format:
1"

Resolution (MegaPixels):
4.20

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

Pixel Size, H x V (µm):
5.5 x 5.5

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

Frame Rate (fps):
90.00

Pixel Depth:
10/12 bit

Exposure Time:
Freely Programmable

Dynamic Range (dB):
59.0

Machine Vision Standard:
USB3 Vision v1.0

Electrical

Power Consumption (W):
3.2

Hardware & Interface Connectivity

Video Output:
USB 3.0

Connector:
USB 3.0, Micro-B with Screw Locks

Power Supply:
Power over USB

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

Synchronization:
Hardware Trigger (GPIO) or Free-Run

Interface Port Orientation:
Back Panel

GPIO Connector Type:
6-pin Hirose (HR10)

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

Threading & Mounting

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

Mount:
C-Mount

Environmental & Durability Factors

Operating Temperature (°C):
0 to +60

Storage Temperature (°C):
-20 to +80

Regulatory Compliance

RoHS 2015:
[Compliant](#)

Certificate of Conformance:
[View](#)

Reach 235:
[Compliant](#)

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.