



General Information

Part Number

A2A3840-45UMBAS

Order Number

108014

Product Family

ace 2 R

Product Line

ace 2 R Basic

Camera Category

Area Scan Camera

Sensor

Sensor Vendor

Sony

Sensor

IMX334

Shutter

Rolling Shutter

Sensor Format

1/1.8"

Sensor Diagonal

8.82 mm

Sensor Type

CMOS

Sensor Size

7.7 mm × 4.3 mm

Resolution (H x V)

3840 px x 2160 px

Resolution

8.3 MP

Pixel Size (H x V)

2 µm x 2 µm

Frame rate

45 fps

Mono/Color

Mono

Spectrum

Visible



EMVA Data

Quantum Efficiency (typical/minimal)	72.2 % (typical)
Dark Noise (typical/maximal)	1.96 e ⁻ (typical)
Saturation Capacity (typical/minimal)	7.3 ke ⁻ (typical)
Dynamic Range (typical/minimal)	69.2 dB (typical)
Signal-to-Noise Ratio (typical/minimal)	38.6 dB (typical)

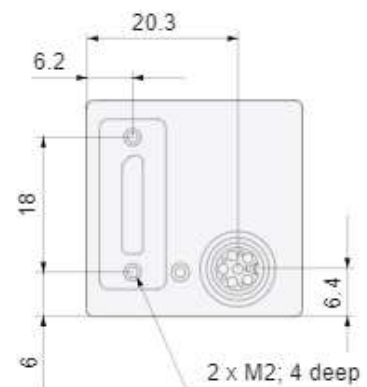
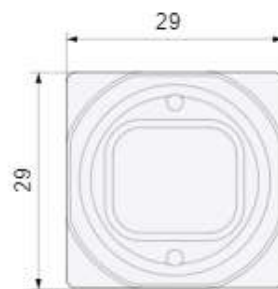
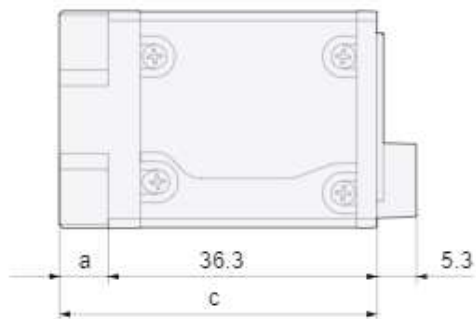
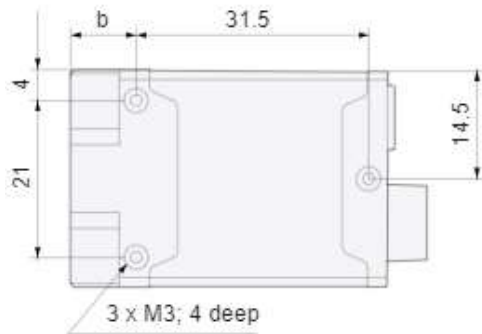
Camera Data

Interface	USB 3.0
Image Data Interface	USB 3.0, nominal max. 5 Gbit/s (SuperSpeed) 8 bits
Pixel Bit Depth	10 bits 12 bits
Exposure Control	Hardware trigger Programmable via the camera API
Digital Input	1
Power Supply	Via USB 3.0 interface
Power Requirements (typical)	2.5 W

Housing

Housing Type	Box
Housing Size (L x W x H)	42.8 mm x 29 mm x 29 mm
Weight	85 g
Lens Mount	C-mount
Operating Temperature	-10 °C - 60 °C

Technical Drawing



	Front I	Front II	Front III
a	6.1	6.6	7.1
b	8.3	8.8	9.3
c	42.3	42.8	43.3

Not to scale
Dimensions in mm