# daA1920-30um - Basler dart

The Basler daA1920-30um USB 3.0 camera with the ON Semiconductor MT9P031 CMOS sensor delivers 30 frames per second at 2 MP resolution.

USB3 VISION

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## Specifications

### General Information

| | | |
|---|---|---|
| | Order Number | No-mount: 106686 / CS-Mount: 106687 / S-Mount: 106688 |

### Sensor

| | | |
|---|---|---|
| | Sensor Vendor | ON Semiconductor |
| | Sensor | MT9P031 |
| | Shutter | Rolling Shutter |
| | Max. Image Circle | 1/3.7" |
| | Sensor Type | CMOS |
| | Sensor Size | 4.2 mm x 2.4 mm |
| | Resolution (HxV) | 1920 px x 1080 px |
| | Resolution | 2 MP |
| | Pixel Size (H x V) | 2.2 µm x 2.2 µm |
| | Frame Rate | 30 fps |
| | Mono/Color | Mono |

### Camera Data

| | | |
|---|---|---|
| | Interface | USB 3.0 |
| | Pixel Bit Depth | 8, 12 bits |
| | Synchronization | ■ hardware trigger<br>■ free-run<br>■ software trigger |
| | Exposure Control | ■ programmable via the camera API<br>■ hardware trigger |

## Camera Data

| | |
|---|---|
| Digital Input | 1 |
| Digital Output | 2 |
| General Purpose I/O | 2 |
| Power Requirements | ■ Via USB 3.0 interface |
| Power Consumption (typical) | 1.2 W |

## Housing

| | |
|---|---|
| Housing Type | Board Level |
| Housing Size (L x W x H) | 7.2 mm x 27 mm x 27 mm |
| Lens Mount | ■ CS-mount<br>■ none<br>■ S-mount |
| Housing Temperature | 0 - 50°C |
| Weight (typical) | 15g |

## Conformity

| | |
|---|---|
| Conformity | ■ CE<br>■ RoHS<br>■ GenICam<br>■ UL<br>■ USB3 Vision<br>■ FCC |

## Features

## Features

**Click on a feature to open the corresponding topic in the Basler Product Documentation.**
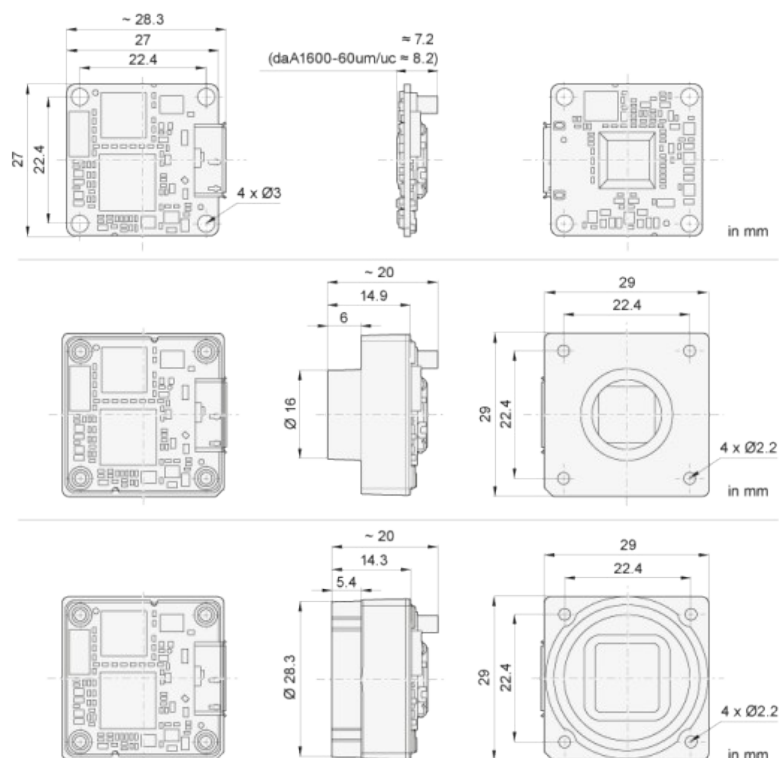
| | |
|---|---|
| Color Creation and Enhancement | ■ Auto Function Profile: Anti-Flicker<br>■ Backlight Compensation<br>■ Contrast Enhancement |
| I/O Control and Line Source Signals | ■ Acquisition Trigger Wait / Frame Burst Trigger Wait<br>■ Debouncer<br>■ Exposure Active<br>■ Flash Window<br>■ Frame Trigger Wait<br>■ Minimum Output Pulse Width<br>■ Timer Active<br>■ User Output |
| Image Acquisition Control | ■ Acquisition Status<br>■ Frame Start Trigger<br>■ Triggered by Hardware<br>■ Triggered by Software |
| Miscellaneous | ■ Device Information Parameters<br>■ User Defined Values<br>■ User Sets (Configuration Sets) |
| Pixel Formats | ■ Mono 12<br>■ Mono 8 |
| Standard Features | ■ Auto Function Profile<br>■ Binning Horizontal |

# Features

**Click on a feature to open the corresponding topic in the Basler Product Documentation.**

- Binning Vertical
- Black Level
- Exposure Auto
- Exposure Mode: Timed (Control via API)
- Exposure Mode: Trigger Width (Control via External Trigger)
- Gain
- Gain Auto
- Gamma Correction
- Region of Interest (ROI)
- Reverse X (Horizontal Mirroring)
- Reverse Y (Vertical Mirroring)
- Test Images

## Dimensions

### Mechanical drawing for daA1920-30um

Mechanical drawings provide the detailed measurements of a camera product. Click on the link below to download the mechanical drawing for daA1920-30um.

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