

# daA1920-15um - Basler dart

The Basler daA1920-15um USB 3.0 camera with the ON Semiconductor MT9P031 CMOS sensor delivers 15 frames per second at 2 MP resolution.



Number 

1

+

-

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## Specifications

### General Information

Order Number	106732
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### 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	15 fps
Mono/Color	Mono

### Camera Data

Interface	USB 3.0
Pixel Bit Depth	8, 12 bits
Synchronization	<div><div>■</div> hardware trigger</div> <div><div>■</div> free-run</div> <div><div>■</div> software trigger</div>
Exposure Control	<div><div>■</div> programmable via the camera API</div> <div><div>■</div> hardware trigger</div>
Digital Input	1

## Camera Data

Digital Output	2
General Purpose I/O	2
Power Requirements	<ul style="list-style-type: none"><li>Via USB 3.0 interface</li></ul>
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	<ul style="list-style-type: none"><li>none</li></ul>
Housing Temperature	0 - 50°C
Weight (typical)	5g

## Conformity

Conformity	<ul style="list-style-type: none"><li>CE</li><li>RoHS</li><li>GenICam</li><li>UL</li><li>USB3 Vision</li><li>FCC</li></ul>
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## Features

### Features

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

Color Creation and Enhancement	<ul style="list-style-type: none"><li><a href="#">Auto Function Profile: Anti-Flicker</a></li><li><a href="#">Backlight Compensation</a></li><li><a href="#">Contrast Enhancement</a></li></ul>
I/O Control and Line Source Signals	<ul style="list-style-type: none"><li><a href="#">Acquisition Trigger Wait / Frame Burst Trigger Wait</a></li><li><a href="#">Debouncer</a></li><li><a href="#">Exposure Active</a></li><li><a href="#">Flash Window</a></li><li><a href="#">Frame Trigger Wait</a></li><li><a href="#">Minimum Output Pulse Width</a></li><li><a href="#">Timer Active</a></li><li><a href="#">User Output</a></li></ul>
Image Acquisition Control	<ul style="list-style-type: none"><li><a href="#">Acquisition Status</a></li><li><a href="#">Frame Start Trigger</a></li><li><a href="#">Triggered by Hardware</a></li><li><a href="#">Triggered by Software</a></li></ul>
Miscellaneous	<ul style="list-style-type: none"><li><a href="#">Device Information Parameters</a></li><li><a href="#">User Defined Values</a></li><li><a href="#">User Sets (Configuration Sets)</a></li></ul>
Pixel Formats	<ul style="list-style-type: none"><li><a href="#">Mono 12</a></li><li><a href="#">Mono 8</a></li></ul>
Standard Features	<ul style="list-style-type: none"><li><a href="#">Auto Function Profile</a></li><li><a href="#">Binning Horizontal</a></li><li><a href="#">Binning Vertical</a></li><li><a href="#">Black Level</a></li><li><a href="#">Exposure Auto</a></li></ul>

## Features

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

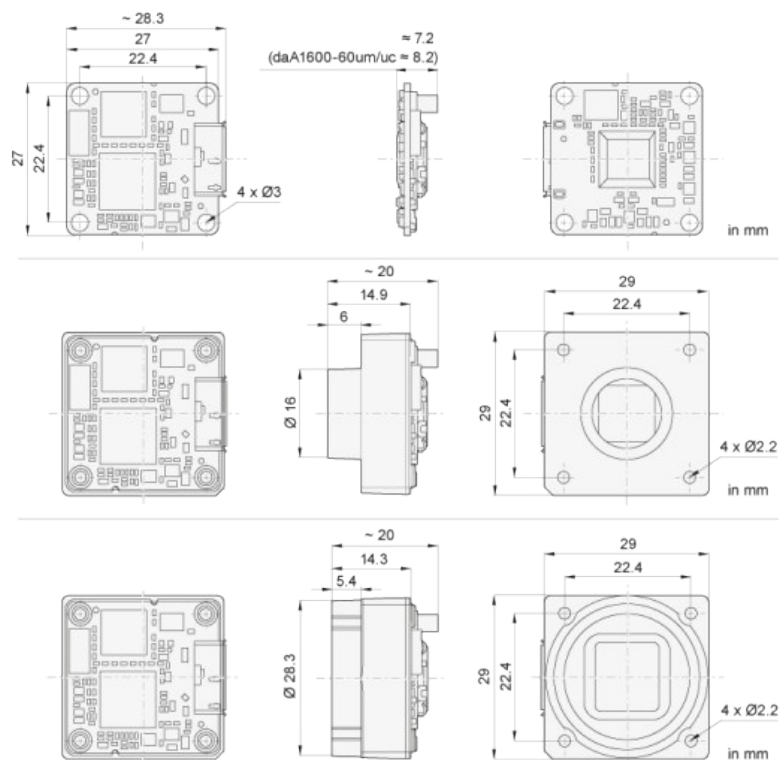
- [Exposure Mode: Timed \(Control via API\)](#)
- [Exposure Mode: Trigger Width \(Control via External Trigger\)](#)
- [Gain](#)
- [Gain Auto](#)
- [Gamma Correction](#)
- [Region of Interest \(ROI\)](#)
- [Reverse X \(Horizontal Mirroring\)](#)
- [Reverse Y \(Vertical Mirroring\)](#)
- [Test Images](#)

## Dimensions

### Mechanical drawing for daA1920-15um

Mechanical drawings provide the detailed measurements of a camera product. Click on the link below to download the mechanical drawing for daA1920-15um.

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