Basler dart USB with Sony Sensors
PERFECTLY SUITED FOR MEDICAL & LIFE SCIENCES APPLICATIONS

Your Medical & Life Sciences application requires powerful and at the same time space-saving camera modules? In our embedded vision portfolio you will find exactly that – the Basler dart USB is a small, resilient camera module. Thanks to two different Sony sensors, it delivers images of the highest quality.

**Specifications Sony PREGIUS IMX392**
- Resolution 2.3 MP
- CMOS global shutter
- 160 fps, raw format, 8 bit
- Pixel size 3.45 µm²
- Optical size 1/2.3”

**Sensor Highlights**
- Superior image quality
- High speed image acquisition
- Machine vision proven quality
- Low noise at increased temperature

**Specifications Sony Starvis IMX334**
- Resolution 8.3 MP
- CMOS rolling shutter
- 45 fps, raw format, 8 bit
- Pixel size 2.00 µm²
- Optical size 1/1.8”

**Sensor Highlights**
- Ultra low light sensitive
- Improved NIR performance
- Back-illuminated CMOS pixel technology
- 4K resolution
**dart USB Ideal for Numerous Process Automation Applications**

Cameras perform typical tasks such as sample identification and sorting (e.g. barcode recognition, color and pattern recognition) or process and quality control (e.g. sample management, liquid handling and control, or control of analytical reactions).

Due to its high frame rate and global shutter, the **daA1920-160uc** enables very fast sample handling and thus a very high throughput of samples. In addition, the image preprocessing in the camera saves computing power on the host side and can be used for analysis purposes.

**Colony Counting Made Easy with the dart USB**

Cameras are used to track the complete workflow of the sample preparation process. Starting with the detection of the petri dish up to the complete colony analysis (positive/negative sample, colony counting and analysis).

Due to the high resolution of the **daA3840-45uc**, the sample area can be completely recorded with only one camera. This means that there is no need for any mechanics for moving the sample and/or camera.

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**dart Camera Models with Sony IMX392 and IMX334 Sensors**

<table>
<thead>
<tr>
<th>CAMERA MODEL</th>
<th>RESOLUTION [H × V px]</th>
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<th>SENSOR</th>
<th>FRAME RATE [FPS]</th>
<th>MONO/COLOR</th>
<th>INTERFACE</th>
</tr>
</thead>
<tbody>
<tr>
<td>daA1920-160uc</td>
<td>1920 x 1200</td>
<td>2.3 MP</td>
<td>IMX392</td>
<td>160</td>
<td>color</td>
<td>USB 3.0</td>
</tr>
<tr>
<td>daA1920-160um</td>
<td>1920 x 1200</td>
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dart USB 3.0 cameras are available with S- or CS-mount or as a bare board variant without a lens mount.

More information about the dart camera series is available at [baslerweb.com/dart](http://baslerweb.com/dart)

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**About Basler**

Basler is a leading international manufacturer of imaging components for computer vision applications such as cameras, lenses, frame grabbers, software as well as embedded vision solutions, customized products and consulting services. The products are used in a variety of computer vision markets, including factory automation, medical, traffic, logistics, retail, and robotics. Founded in 1988, the Basler Group employs approximately 800 people at its headquarters in Ahrensburg and other locations in Europe, Asia and North America.