Have you ever wanted a camera that can be deeply integrated into your system? Ever been bothered by the standard interface connectors because they are not needed in an integrated setup? With Alvium Flex we have the solution for USB3 and CSI-2 cameras. Alvium Flex comes with a board-to-board connector that is open for your own integration solution. Additionally, there are four screw nuts for your custom attachment or heat management solution available. As a bare board, the camera is extremely compact with a thickness of just 8mm thereby supporting all the sensors available in the Alvium platform. And with a size of just 26 x 26mm it can still support sensors up to 1.2” like the Sony IMX540 sensor. Alvium Flex is also available with an open housing supporting various lens mounts from C- / CS- / S-mount and the new Alvium Frame. No matter what lens mount you choose, all of them are actively aligned during production for best image quality over the whole image. Available as:

- Alvium Flex CSI-2 or Alvium Flex USB3
- Hardware options: Bare Board or Open Housing

Available for these camera models and sensors:

<table>
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<tr>
<th>Camera Model</th>
<th>Sensor</th>
<th>030 VS</th>
<th>040</th>
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<th>120 VS</th>
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Applications:
- Drone & airborne applications
- Handheld and space-limited applications
- Embedded and integrated systems
- Medical devices

Highlights:
- Extremely compact, just 8mm thick
- Support for more than 20 image sensors
- Support for Sony SWIR and UV sensors
- Very compact footprint of 26 x 26mm
- Board-to-board connector for custom connector solutions
- Various accessories for detached USB connector and more
Do you need to design a custom optics solution? If you do not need a standard lens mount or do not need a mount at all, but still need the image sensor to be precisely located, Alvium Frame is the solution. Alvium Frame cameras are actively aligned during production. The image sensor is perfectly aligned towards the small precision frame. Four M2 screw holes are available at the front for mounting. For alignment there are two options:

- Precision milled areas on the bottom, side, and front of the frame
- Precision milled front face, alignment pin, and oblong hole

Alvium Frame cameras are part of the Alvium Modular Concept. Every available camera model / image sensor in the Alvium CSI-2 and USB3 series is available as an Alvium Frame camera. It can also be combined with Alvium Flex bare board cameras. Available as:

- Alvium Frame CSI-2
- Alvium Frame USB3
- Alvium Frame USB3 90°
- Also available as Alvium Flex CSI-2 or Alvium Flex USB3

Available for these camera models and sensors:

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<td>IMX183</td>
<td>IMX540</td>
</tr>
</tbody>
</table>

Applications

- Medical & Life Sciences: Microscopy, ophthalmology, handheld medical devices
- Laser characterization and profiling
- Custom optics solutions
- Embedded and integrated systems
- Handheld and space-limited applications

Highlights

- Precision alignment for more than 20 image sensors
- Compact and small
- Active sensor alignment within the frame
- Two alternative precision mount options