

Alvium GM2

Alvium GM2-052



Alvium GM2-052 innovative GMSL2 camera with Sony IMX426 CMOS global shutter sensor provides industrial performance for cost effective embedded vision applications.

General

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|-----------------|----------------|
| Model: | Alvium GM2-052 |
| Product series: | Alvium GM2 |
| Status: | Available |

Sensor

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|---------------------------------|------------------------|
| Sensor type: | Area scan |
| Chroma: | Mono or Color |
| Spectrum: | Visible |
| Spectral range: | 300 nm to 1100 nm |
| Resolution: | 816 × 624 (0.50 MP) |
| Sensor model: | Sony IMX426 |
| Sensor architecture (material): | CMOS |
| Shutter type(s): | Global Shutter |
| Sensor size: | 9.33 mm ø (Type 1/1.7) |
| Pixel size: | 9.00 µm × 9.00 µm |

Pixel formats

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|---------------------------|---|
| Sensor bit depth: | 8-bit, 10-bit, 12-bit; Adaptive (10-bit, 12-bit) |
| Monochrome pixel formats: | Mono8, Mono10, Mono10p, Mono12, Mono12p, RAW8, RAW10, RAW12, GREY, Y10, Y12 |
| YUV pixel formats: | YCbCr411_8_CbYYCrYY, YCbCr422_8_CbYCrY, YCbCr8_CbYCr, YUV422 8-bit, UYVY |

Pixel formats

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|----------------------|--|
| RGB pixel formats: | RGB8 (default), BGR8, RGB888 (default), RGB3 |
| Bayer pixel formats: | BayerGR8, BayerGR10, BayerGR10p, BayerGR12, BayerGR12p |

Imaging performance

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| Quantum efficiency @ 529 nm: | 73 % |
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Timing and gain

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| Max. frame rate: | Mainly depends on hardware and register settings. |
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I/Os and power

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| Non-isolated lines: | 2 programmable GPIOs |
| I/O connector: | Coax, STP |
| Power supply: | 5 VDC over MIPI CSI-2 |
| Power consumption: | Value for the integrated serializer adds to CSI-2 model value. |

Operating conditions

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| Operating temperature (housing): | -20 °C to 65 °C (housing) |
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Mechanical properties

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|------------------------------------|-------------------|
| Body dimensions (L x W x H in mm): | 41 × 29 × 29 |
| Lens mount(s): | C-Mount, CS-Mount |
| Weight: | 70 g |

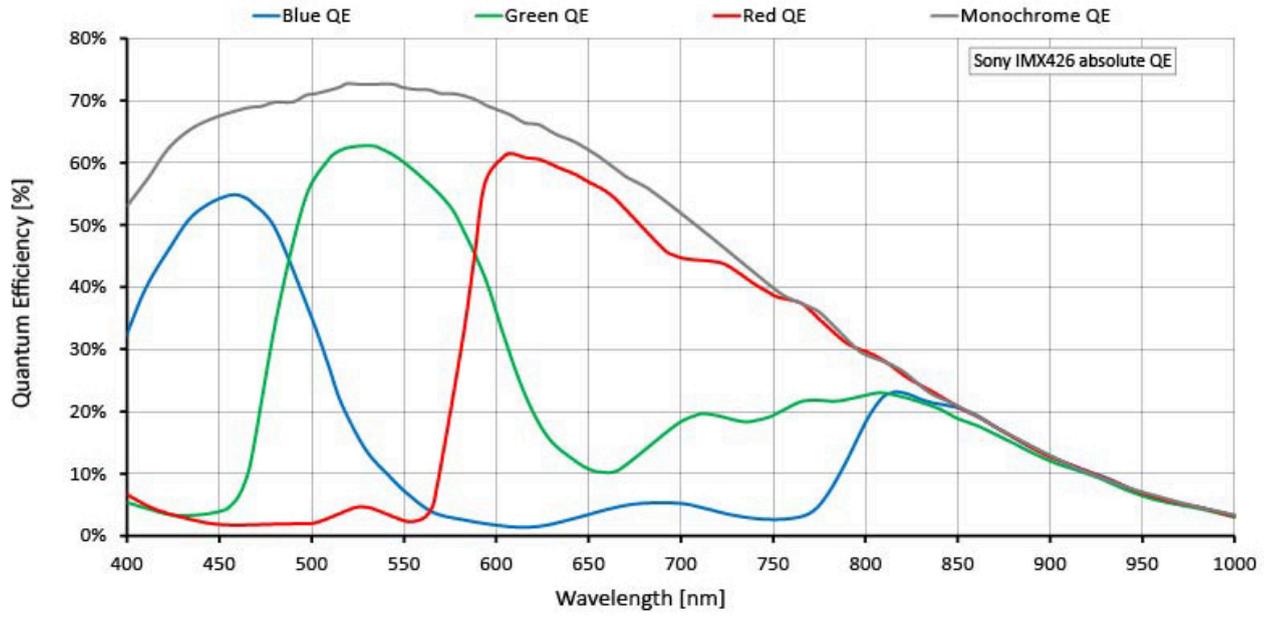
On-board memory and FPGA

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|------------------------------|------------|
| Image buffer (RAM): | 256 KByte |
| Non-volatile memory (Flash): | 1024 KByte |

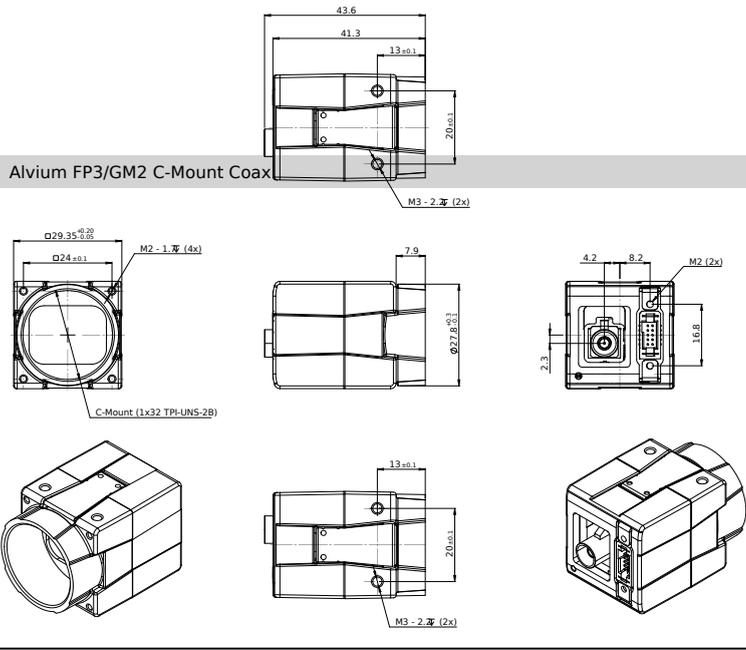
Interfaces

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|--------------------|---|
| Digital interface: | GMSL2, based on MIPI CSI-2, up to 4 lanes |
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Quantum Efficiency



Alvium FP3/GM2 C-Mount Coax



Alvium FP3/GM2 C-Mount STP

