



Alvium C

Alvium 1800 C-812 UV

Alvium 1800 C-812 UV innovative MIPI CSI-2 camera with Sony IMX487 CMOS global shutter sensor provides industrial performance for cost effective embedded applications.

General

| | |
|----------------|----------------------|
| Model | Alvium 1800 C-812 UV |
| Product series | Alvium C |
| Status | Available |

Sensor

| | |
|-----------------|-------------------------|
| Sensor type | Area scan |
| Spectrum | UV |
| Spectral range | 200 nm to 1000 nm |
| Resolution | 2,848 × 2,848 (8.10 MP) |
| Sensor model | Sony IMX487 |
| Shutter type(s) | Global Shutter |
| Sensor size | 12.75 mm ø (Type 2/3) |
| Pixel size | 2.74 µm × 2.74 µm |

Pixel formats

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|--------------------------|------------------------------------|
| Monochrome pixel formats | GREY, RAW10, RAW12, RAW8, Y10, Y12 |
|--------------------------|------------------------------------|

Timing and gain

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|-----------------|-------------------|
| Max. frame rate | 58 fps |
| Exposure time | 8 µs to 10 s |
| Gain | 0.0 dB to 48.0 dB |

I/Os and power

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|--------------------|----------------------|
| Non-isolated lines | 2 programmable GPIOs |
|--------------------|----------------------|

I/Os and power

| | |
|-------------------|-----------------------|
| Power supply | 5 VDC over MIPI CSI-2 |
| Power consumption | Typical: 3.7 W |

Operating conditions

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

Mechanical properties

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|-----------------------------------|-------------------|
| Body dimensions (L x W x H in mm) | 26 × 29 × 29 |
| Lens mount(s) | C-Mount, CS-Mount |
| Weight | 40 g |

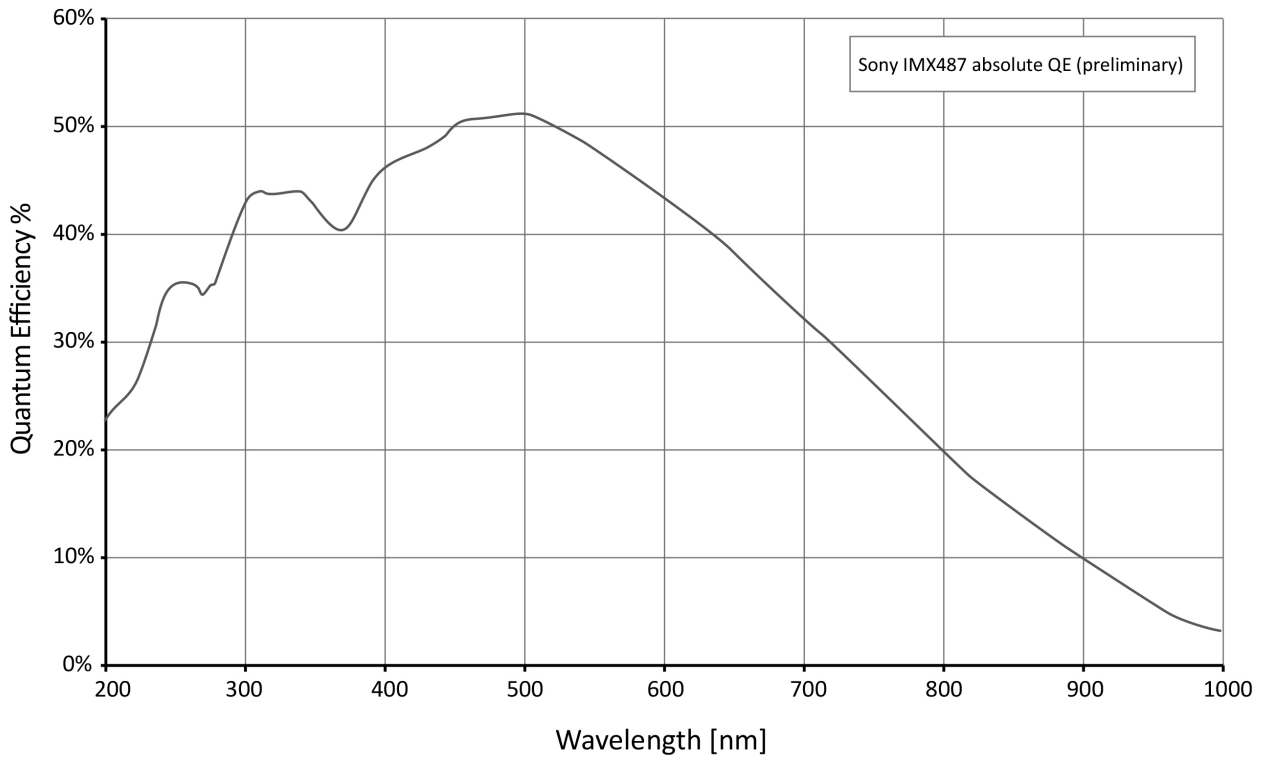
On-board memory and FPGA

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

Interfaces

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|-------------------|---------------------------|
| Digital interface | MIPI CSI-2, up to 4 lanes |
|-------------------|---------------------------|

Quantum Efficiency



Technical Drawing

