



Alvium GM2

Alvium GM2-040

Alvium GM2-040 innovative GMSL2 camera with Sony IMX287 CMOS global shutter sensor provides industrial performance for cost effective embedded vision applications.

General

Model	Alvium GM2-040
Product series	Alvium GM2
Status	Available

Sensor

Sensor type	Area scan
Chroma	Color, Mono
Spectrum	Visible
Spectral range	300 nm to 1100 nm
Resolution	728 × 544 (0.40 MP)
Sensor model	Sony IMX287
Sensor architecture (material)	cmos
Shutter type(s)	Global shutter (GS)
Sensor size	5 × 3.8 mm (6.3 mm, Type 1/2.9)
Pixel size	6.90 µm × 6.90 µm

Pixel formats

Sensor bit depth	10-bit, 12-bit, 8-bit
Monochrome pixel formats	GREY, RAW10, RAW12, RAW8, Y10, Y12
YUV pixel formats	UYVY, YCbCr411_8_CbYYCrYY, YCbCr422_8_CbYCrY, YCbCr8_CbYCr, YUV422 8-bit
RGB pixel formats	BGR8, RGB3, RGB8 (default), RGB888 (default)
Bayer pixel formats	BayerGR10, BayerGR10p, BayerGR12, BayerGR12p, BayerGR8

Imaging performance

Quantum efficiency @ 529 nm	64 %
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Timing and gain

Max. frame rate	Mainly depends on hardware and register settings.
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Exposure time	28 μ s to 10 s
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Gain	0.0 dB to 48.0 dB
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I/Os and power

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

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

Body dimensions (L x W x H in mm)	41 × 29 × 29
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Lens mount(s)	C-Mount, CS-Mount, S-Mount
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Weight	70 g
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On-board memory and FPGA

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

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



