



# Alvium GM2

Alvium GM2-2460

Alvium GM2-2460 innovative GMSL2 camera with Sony IMX540 CMOS global shutter sensor provides industrial performance for cost effective embedded applications.

## General

|                |                 |
|----------------|-----------------|
| Model          | Alvium GM2-2460 |
| Product series | Alvium GM2      |
| Status         | Available       |

## Sensor

|                                |                                    |
|--------------------------------|------------------------------------|
| Sensor type                    | Area scan                          |
| Chroma                         | Color, Mono                        |
| Spectrum                       | Visible                            |
| Spectral range                 | 300 nm to 1100 nm                  |
| Resolution                     | 5,328 × 4,608 (24.60 MP)           |
| Sensor model                   | Sony IMX540                        |
| Sensor architecture (material) | cmos                               |
| Shutter type(s)                | Global shutter (GS)                |
| Sensor size                    | 14.6 × 12.6 mm (19.3 mm, Type 1.2) |
| Pixel size                     | 2.74 µm × 2.74 µm                  |

## Pixel formats

|                          |                                                                          |
|--------------------------|--------------------------------------------------------------------------|
| Sensor bit depth         | 12-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 | 68 % |
|-----------------------------|------|

## Timing and gain

|                 |                                                   |
|-----------------|---------------------------------------------------|
| Max. frame rate | Mainly depends on hardware and register settings. |
|-----------------|---------------------------------------------------|

|               |                    |
|---------------|--------------------|
| Exposure time | 13 $\mu$ s to 10 s |
|---------------|--------------------|

|      |                   |
|------|-------------------|
| Gain | 0.0 dB to 48.0 dB |
|------|-------------------|

## I/Os and power

|                    |                      |
|--------------------|----------------------|
| 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

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

## Mechanical properties

|                                   |              |
|-----------------------------------|--------------|
| 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

|                    |           |
|--------------------|-----------|
| Image buffer (RAM) | 256 KByte |
|--------------------|-----------|

|                             |            |
|-----------------------------|------------|
| Non-volatile memory (Flash) | 1024 KByte |
|-----------------------------|------------|

## Interfaces

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

## Quantum Efficiency



## Technical Drawing

