



- IMX250MZR CMOS sensor
- GigE Vision
- High bandwidths
- 2 lens mount options

Hardware option: Closed Housing CS-Mount

Alvium G5 - Speed up your vision application

5GigE Vision camera for demanding applications

Alvium G5-508 Pol with Sony IMX250 Polarizer runs 95.0 frames per second at 5.1 MP resolution.

The Alvium G5 camera series combines the advantages of the 5GigE interface for higher bandwidth and the flexibility of the Alvium platform offering various mount and sensor options. It enables an easy upgrade of existing systems (USB3 Vision or GigE Vision) and offers backwards compatibility with 1000BASE-T solutions. Powered by ALVIUM® Technology, the sugar cube Alvium G5 camera delivers highest image quality at a low power consumption.

Easy software integration with **Vimba X** and compatibility to the most popular third party image-processing libraries.

Specifications

| | |
|------------------------------------|---|
| Product code | 20452 |
| Interface | IEEE 802.3 5GBASE-T, 1000BASE-T, IEEE 802.3af Power Class 0 PoE |
| Resolution | 2464 (H) × 2056 (V) |
| Spectral range | 300 to 1100 nm |
| Sensor | Sony IMX250 Polarizer |
| Sensor type | CMOS |
| Shutter mode | GS (Global shutter) |
| Sensor size | Type 2/3 |
| Pixel size | 3.45 μm × 3.45 μm |
| Lens mount | CS-Mount |
| Optical Filter | Type Hoya C5000 IR cut filter |
| Max. frame rate at full resolution | 95 fps at 525 MByte/s, Mono8 |
| ADC | 12 Bit |
| Image buffer (RAM) | 512 MByte |
| Non-volatile memory (Flash) | 1024 KByte |

Output

| | |
|---------------------------------|---|
| Bit depth | 8-bit, 10-bit, 12-bit; Adaptive (10-bit, 12-bit) |
| Raw color pixel formats (Bayer) | BayerRG8, BayerRG10, BayerRG10p, BayerRG12, BayerRG12p, BayerRG12Packed |

General purpose inputs/outputs (GPIOs)

| | |
|--------------------|-------------------|
| TTL I/Os | 2 GPIOs (LVTTTL) |
| Opto-isolated I/Os | 1 input, 1 output |

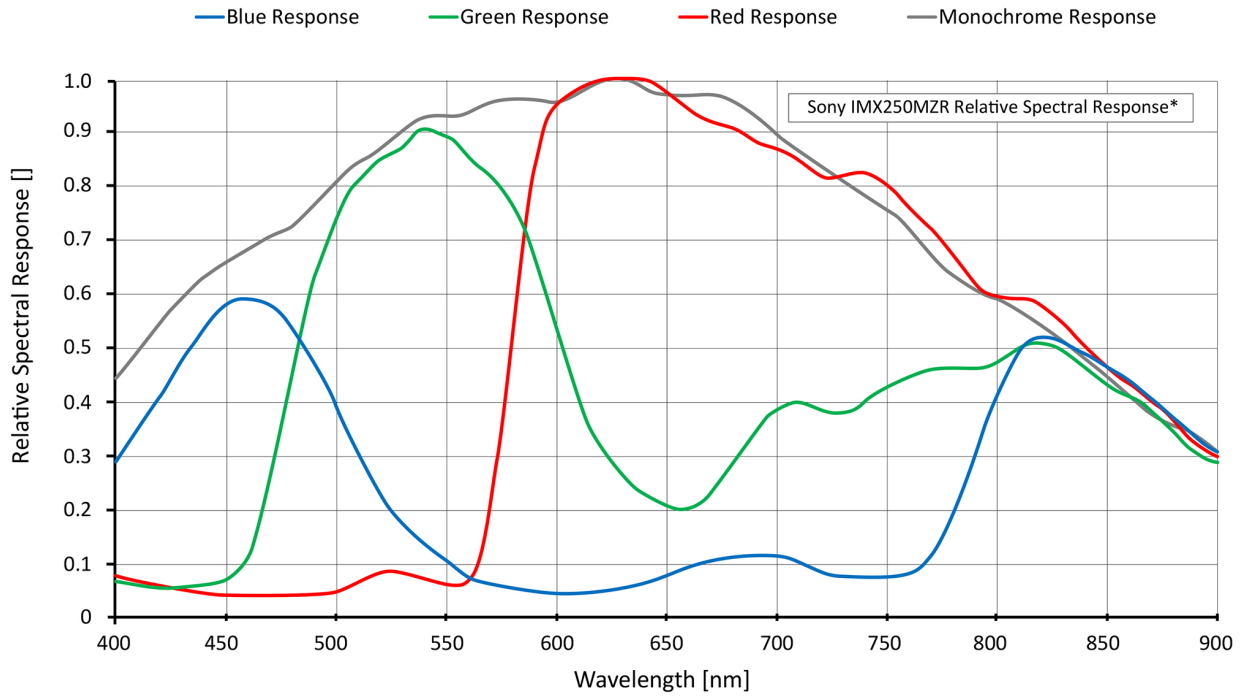
Operating conditions/dimensions

| | |
|-------------------------|--|
| Operating temperature | -20 °C to +60 °C (housing) |
| Power requirements (DC) | 10.8 to 26.4 VDC AUX IEEE 802.3af, Power Class 0 PoE |
| Power consumption | External power: 6.1 W at 12 VDC (typical) Power over Ethernet: 7.0 W (typical) |

Mass 100 g

Body dimensions (L × W × H in mm) 55 × 29 × 29

Quantum efficiency



*Note: The spectral response depends on the illumination's degree of polarization.

Features

Image control: Auto

- Auto exposure
- Auto gain

Image control: Other

- Black level
- Gamma
- Lens shading correction
- Multiple ROIs (regions of interest)
- Reverse X/Y
- ROI (region of interest)

Camera control

- Acquisition frame rate
- Action commands, incl. ToE (trigger over Ethernet)
- Bandwidth control
- Burst mode
- Counters and timers
- Event channel
- Firmware update in the field
- I/O and trigger control
- Image chunk data
- Power Saving Mode
- PTP (IEEE 1588 Precision Time Protocol)
- Readout modes (SensorBitDepth)
- Sequencer
- Serial I/Os
- Temperature monitoring
- User sets

Technical drawing

