



# Alvium G5

## Alvium G5-2460

Alvium G5-2460 innovative 5GBASE-T camera with Sony IMX540 CMOS global shutter sensor provides industrial performance for cost effective machine vision applications.

### Generale

|                   |                |
|-------------------|----------------|
| Modello           | Alvium G5-2460 |
| Serie di prodotti | Alvium G5      |
| Stato             | Available      |

### Sensore

|                                  |                          |
|----------------------------------|--------------------------|
| Tipo di sensore                  | Area scan                |
| Croma                            | Mono or Color            |
| Spettro                          | Visible                  |
| Gamma spettrale                  | 300 nm to 1100 nm        |
| Risoluzione                      | 5,328 × 4,608 (24.60 MP) |
| Modello sensore                  | Sony IMX540              |
| Architettura sensore (Materiale) | CMOS                     |
| Tipi di otturatore               | Global Shutter           |
| Dimensione sensore               | 21.43 mm ø (Type 1.2)    |
| Dimensione pixel                 | 2.74 µm × 2.74 µm        |

### Formati pixel

|                             |                                                                         |
|-----------------------------|-------------------------------------------------------------------------|
| Profondità bit sensore      | 12-bit                                                                  |
| Formati pixel monocromatici | Mono8, Mono10, Mono10p, Mono12, Mono12p, Mono12Packed                   |
| Formati pixel YUV           | YCbCr411_8_CbYYCrYY, YCbCr422_8_CbYCrY, YCbCr8_CbYCr                    |
| Formati pixel RGB           | RGB8 (default), BGR8                                                    |
| Formati pixel Bayer         | BayerRG8, BayerRG10, BayerRG10p, BayerRG12, BayerRG12p, BayerRG12Packed |

## Prestazioni di imaging

|                              |      |
|------------------------------|------|
| Efficienza quantica @ 529 nm | 68 % |
|------------------------------|------|

## Tempi e guadagno

|                           |        |
|---------------------------|--------|
| Frequenza fotogrammi max. | 21 fps |
|---------------------------|--------|

## I/O e alimentazione

|                   |                  |
|-------------------|------------------|
| Linee non isolate | 2 GPIOs (LVTTTL) |
|-------------------|------------------|

|                           |                   |
|---------------------------|-------------------|
| Linee otticamente isolate | 1 input, 1 output |
|---------------------------|-------------------|

|               |                                                        |
|---------------|--------------------------------------------------------|
| Alimentazione | 10.8 to 26.4 VDC AUX   IEEE 802.3af, Power Class 0 PoE |
|---------------|--------------------------------------------------------|

|                    |                                                                                  |
|--------------------|----------------------------------------------------------------------------------|
| Consumo energetico | External power: 6.9 W at 12 VDC (typical)   Power over Ethernet: 7.7 W (typical) |
|--------------------|----------------------------------------------------------------------------------|

## Condizioni operative

|                                  |                                       |
|----------------------------------|---------------------------------------|
| Temperatura operativa (Custodia) | -20 °C to 60 °C (housing temperature) |
|----------------------------------|---------------------------------------|

## Proprietà meccaniche

|                                       |              |
|---------------------------------------|--------------|
| Dimensioni custodia (L x P x A in mm) | 60 × 29 × 29 |
|---------------------------------------|--------------|

|                     |                   |
|---------------------|-------------------|
| Attacco/i obiettivo | C-Mount, CS-Mount |
|---------------------|-------------------|

|      |       |
|------|-------|
| Peso | 100 g |
|------|-------|

## Memoria onboard e FPGA

|                       |           |
|-----------------------|-----------|
| Buffer immagine (RAM) | 512 MByte |
|-----------------------|-----------|

|                              |            |
|------------------------------|------------|
| Memoria non volatile (Flash) | 1024 KByte |
|------------------------------|------------|

## Interfacce

|                      |                                                                                             |
|----------------------|---------------------------------------------------------------------------------------------|
| Interfaccia digitale | IEEE 802.3: 5GBASE-T or 2.5GBASE-T (NBASE-T) and 1000BASE-T, IEEE 802.3af Power Class 0 PoE |
|----------------------|---------------------------------------------------------------------------------------------|

## Efficienza quantica



## Disegno tecnico

