Baumer
Passion for Sensors

VisiLine series

# VLU-03C

USB 3.0, VGA, Color

Article number: 11129454

## overview

- 640 × 480 px
- ams (CMOSIS) CMV300
- 1/3″ CMOS
- 376 fps
- USB 3.0
- available


USB3 VISION GEN<i>CAM CE RoHS COMPLIANT

## technical data

| | |
|---|---|
| **sensor information** | |
| sensor | ams (CMOSIS) CMV300 |
| resolution | 640 × 480 px |
| exposure time | 0,015 … 1000 ms |
| pixel size | 7.4 × 7.4 µm |
| shutter type | Global shutter |
| sensor type | 1/3″ CMOS |
| **acquisition formats** | |
| image formats, interface frame rate max. | Full Frame, 640 × 480 px, max. 376 fps |
| pixel formats | Mono8<br>BayerRG8<br>BayerRG12<br>RGB8<br>BGR8<br>YUV411_8_UYYVYY<br>YUV422_8_UYVY<br>YUV8_UYV |
| **image preprocessing** | |
| analog controls | Gain (0 …18 dB)<br>Offset (0 … 255 LSB 12 Bit) |
| color models | RGB<br>YUV<br>Mono |
| color processing | Integrated color processor for high quality color calculation |
| **camera features** | |
| synchronization | free running<br>trigger |

| | |
|---|---|
| **camera features** | |
| trigger sources | Hardware<br>software |
| trigger delay | 0 … 2 sec, tracking and buffering of up to 512 trigger signals |
| sequencer | Automated control for series of images using different sets of parameters |
| sequencer parameter | exposure time<br>gain factor<br>output line<br>ROI Offset x<br>ROI Offset y |
| digital inputs | 1 input line |
| digital outputs | 3 output lines |
| internal image buffer | 120 MB |
| **interfaces and connectors** | |
| data interface | USB 3.0, Transfer Rate 5000 Mbits/sec, Connector: USB 3.0 Micro B |
| process interface | M8 / 8 pins (SACC-DSI-M8FS-8CONM10-L180 SH) |
| power supply | via USB 3.0 interface |
| **mechanical data** | |
| lens mount | C-mount |
| width | 33 mm |
| height | 33 mm |
| depth | 48 mm |
| weight | ≤ 140 g |
| material | zinc die casting, nickel-plated, IP 40 |

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|---|---|
| **electrical data** | |
| power consumption | approx. 2,3 W @ 376,0 fps |
| **non-volatile memory** | |
| flash memory size | 128 kB |
| **environmental conditions** | |
| operating temperature | +5 … +50 °C |
| humidity | 10 … 90 % (non-condensing) |

| | |
|---|---|
| **environmental conditions** | |
| protection class | IP 40 |
| **digital I/Os** | |
| lines | 1 input line<br>3 output lines |
| **conformity** | |
| conformity | CE<br>RoHS |

## dimension drawing