Baumer
Passion for Sensors

Industrial cameras / VisiLine series

VLG-40C.I

Gigabit Ethernet, 4,0 Megapixel, Color

Article number: 11104903

Overview

- 2040 × 2044 px
- ams (CMOSIS) CMV4000
- 1″ CMOS
- 29 fps
- Gigabit Ethernet

Picture similar

GiGE VISION ®   GEN<i>CAM   CE   RoHS COMPLIANT

Technical data

Sensor information

Sensor	ams (CMOSIS) CMV4000
Mono/Color	Color
Sensor type	1″ CMOS
Shutter type	Global shutter
Resolution	2040 × 2044 px
Pixel size	5.5 × 5.5 µm
Exposure time	0.02 … 1000 ms

Data quality (EMVA 1288 typical)

Dark noise	10.8 e-
Saturation capacity	10507 e-
Dynamic range	59.3 dB
Signal-to-noise ratio	40.2 dB
Quantum efficiency	43.6 % @ 465 nm 45.6 % @ 536 nm 41.9 % @ 631 nm

Acquisition formats

Image formats, interface frame rate max.	Full Frame, 2040 × 2044 px, max. 29 fps
Pixel formats	Mono8 BayerRG8 BayerRG12 RGB8 Packed BGR8 Packed YUV411 Packed YUV422 Packed YUV444 Packed

Image preprocessing

Analog controls	Gain (0 … 18 dB) Offset (0 … 255 LSB 12 Bit)
Color models	RGB YUV Mono
Color processing	Integrated color processor for high quality color calculation

Camera features

Synchronization	free running trigger
Trigger sources	Hardware Software ActionCommand
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 gain factor Output ROI Offset x ROI Offset y
Digital inputs	1 input line
Digital outputs	3 output lines
Internal image buffer	120 MB

The product features and technical data specified do not express or imply any warranty. Technical modifications subject to change.

2023-07-18

Technical data

Interfaces and connectors

Data interface	Gigabit Ethernet, Transfer rate 1000 Mbits/sec, Fast Ethernet, Transfer Rate 100 Mbits/sec, Connector: SACC-CI-M12FS-8CON-L180-10G
Process interface / power supply	SACC-CI-M12MS-8CON-SH TOR 32 / 8 pins

Mechanical data

Lens mount	C-mount
Width	46 mm
Height	46 mm
Depth	49.8 mm
Weight	≤ 185 g ≤ 220 g (incl. tube)
Material	aluminum, IP 65 / 67

Electrical data

Voltage supply range +Vs	12 … 24 V DC (external power supply) 36 … 57 V DC (Power over Ethernet)
Power consumption	Approx. 3.6 W @ 12 VDC and 29.0 fps Approx. 3.7 W @ 48 VDC (PoE) and 23.5 fps

Non-volatile memory

Flash memory size	128 kB

Environmental conditions

Operating temperature	+5 … +50 °C
Humidity	10 … 90 % (non-condensing)
Protection class	IP 40 IP 54 (with mounted tube and cable) IP 65 (with mounted tube and cable) IP 67 (with mounted tube and cable) IP 69K (with stainless steel housing accessory)

Digital I/Os

Lines	1 input line 3 output lines

Conformity

Conformity	CE RoHS

Dimension drawing