

overview

- 2048 × 2048 px
- ams (CMOSIS) CMV4000
- 1" CMOS
- 56 fps
- Dual Gigabit Ethernet
- available



technical data

sensor information

sensor	ams (CMOSIS) CMV4000
resolution	2048 × 2048 px
exposure time	0,02 ... 1000 ms
pixel size	5.5 × 5.5 µm
shutter type	Global shutter
sensor type	1" CMOS

acquisition formats

image formats, interface frame rate max.	Full Frame, 2048 × 2048 px, max. 56 fps Binning 2×1, 1024 × 2048 px, max. 112 fps Subsampling 2×2, 1024 × 1024 px, max. 223 fps
image formats, acquisition frame rate max. (Burst Mode)	Full Frame, 2048 × 2048 px, max. 180 fps
pixel formats	Mono8 Mono10 Mono12

image preprocessing

analog controls	Gain (0 ... 12 dB) Offset (0 ... 255 LSB)
color models	Mono

camera features

synchronization	free running trigger
trigger sources	Hardware software ActionCommand

camera features

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
digital inputs	3 input line (each with Debouncer)
digital outputs	3 output lines
internal image buffer	256 MB

interfaces and connectors

data interface	Dual Gigabit Ethernet, Transfer rate 2000 Mbits/sec, Connector: 2 x 8P8C Modular Jack (RJ45), screwable type
process interface	M8 / 8 pins
power supply	M8 / 3 pins

mechanical data

lens mount	C-mount (F-mount on request)
width	52 mm
height	52 mm
depth	55 mm
weight	≤ 232 g
material	housing: aluminum

electrical data

voltage supply range +Vs	20 ... 30 V DC (external power supply) 38 ... 57 V DC (Power over Ethernet)
--------------------------	--

technical data

electrical data

power consumption	approx. 8,4 W @ 24 VDC and 56,0 fps
	approx. 9,5 W @ 48 VDC (PoE) and 56,0 fps

environmental conditions

operating temperature	+5 ... +50 °C
humidity	10 ... 90 % (non-condensing)

environmental conditions

protection class	IP 40
------------------	-------

conformity

conformity	CE
	RoHS
	FCC
	EAC

dimension drawing

