

overview

- 1920 x 1200 px
- ON Semiconductor PYTHON2000
- 2/3" CMOS
- 167 fps
- USB 3.0
- available



technical data

sensor information

sensor	ON Semiconductor PYTHON2000
resolution	1920 × 1200 px
exposure time	0,02 ... 1000 ms
pixel size	4.8 × 4.8 µm
shutter type	Global shutter
sensor type	2/3" CMOS

acquisition formats

image formats, interface frame rate max.	Full Frame, 1920 × 1200 px, max. 167 fps Binning 2×2, 960 × 600 px, max. 167 fps Binning 2×1, 960 × 1200 px, max. 167 fps Binning 1×2, 1920 × 600 px, max. 167 fps
image formats, acquisition frame rate max. (Burst Mode)	Full Frame, 1920 × 1200 px, max. 167 fps
pixel formats	Mono8 Mono10

image preprocessing

analog controls	Gain (0 ... 12 dB) Offset (0 ... 63 LSB 10 Bit)
color models	Mono

camera features

synchronization	free running trigger
trigger sources	Hardware software
trigger delay	0 ... 2 sec, tracking and buffering of up to 256 trigger signals

camera features

internal image buffer	475 MB 72 images (Trigger Mode) 1 image (Free Running Mode)
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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-M8MS-8CON-M8-L180)
power supply	via USB 3.0 interface

mechanical data

lens mount	C-mount
width	29 mm
height	29 mm
depth	38 mm
weight	≤ 90 g
material	zinc die casting, baked varnish (until 02-2020 nickel-chrome-plated), IP 40

electrical data

power consumption	approx. 3,6 W @ 167 fps
operating voltage	5 VDC (via USB3.0 interface)

non-volatile memory

flash memory size	128 kB
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environmental conditions

operating temperature	0 ... +65 ° @ T = measurement point
humidity	10 ... 90 % (non-condensing)
protection class	IP 40

technical data

digital I/Os

lines	1 input line
	1 output line
	2 general purpose lines

conformity

conformity	CE
	RoHS
	EAC

dimension drawing

