

overview

- 1280 × 1024 px
- ON Semiconductor PYTHON1300
- 1/2" CMOS
- 222 fps
- USB 3.0
- available



technical data

sensor information

sensor	ON Semiconductor PYTHON1300
resolution	1280 × 1024 px
exposure time	0,02 ... 1000 ms
pixel size	4.8 × 4.8 µm
shutter type	Global shutter
sensor type	1/2" CMOS

acquisition formats

image formats, interface frame rate max.	Full Frame, 1280 × 1024 px, max. 222 fps Binning 2×2, 640 × 512 px, max. 222 fps Binning 2×1, 640 × 1024 px, max. 222 fps Binning 1×2, 1280 × 512 px, max. 222 fps
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pixel formats

BayerRG8
BayerRG10
BayerRG12
BayerRG12 Packed
Mono8
Mono10
Mono12
Mono12 Packed
RGB8
BGR8

image preprocessing

analog controls	Gain (0 ... 12 dB) Offset (0 ... 63 LSB 10 Bit)
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image preprocessing

color models	Mono Raw Bayer RGB
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camera features

synchronization	free running trigger
trigger sources	Hardware software
trigger delay	0 ... 2 sec, tracking and buffering of up to 256 trigger signals
internal image buffer	477 MB 127 images (Trigger Mode) 1 image (Free Running Mode)

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, nickel-plated, IP 40

technical data

electrical data

power consumption	approx. 2,9 W @ 222 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	+5 ... +65 °C @ T = measurement point
humidity	10 ... 90 % (non-condensing)
protection class	IP 40

digital I/Os

lines	1 input line
	1 output line
	2 general purpose lines

conformity

conformity	CE
	RoHS
	KC (MSIP-REI-BkR-VCXU13M)
	EAC

dimension drawing

