

overview

- 640 × 480 px
- ON Semiconductor PYTHON300
- 1/4" CMOS
- 891 fps
- USB 3.0
- available



technical data

sensor information

sensor	ON Semiconductor PYTHON300
resolution	640 × 480 px
exposure time	0,02 ... 1000 ms
pixel size	4.8 × 4.8 µm
shutter type	Global shutter
sensor type	1/4" CMOS

acquisition formats

image formats, interface frame rate max.	Full Frame, 640 × 480 px, max. 891 fps Binning 2×2, 320 × 240 px, max. 891 fps Binning 2×1, 320 × 480 px, max. 891 fps Binning 1×2, 640 × 240 px, max. 891 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
internal image buffer	436 MB 496 images (Trigger Mode) 1 image (Free Running Mode)

interfaces and connectors

data interface	USB 3.0, Transfer Rate 5000 Mb/s/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

electrical data

power consumption	approx. 2,6 W @ 891 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
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technical data

conformity

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

dimension drawing

