

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
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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)
color models	Mono Raw Bayer RGB

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 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

electrical data

power consumption	approx. 2,6 W @ 891 fps
operating voltage	5 VDC (via USB3.0 interface)

technical data

non-volatile memory

flash memory size 128 kB

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

