

overview

- 1280 × 1024 px
- ON Semiconductor PYTHON1300
- 1/2" CMOS
- 61 fps
- Gigabit Ethernet
- Phase-Out starting 08/20, alternative via sales



technical data

sensor information

sensor	ON Semiconductor PYTHON1300
resolution	1280 × 1024 px
exposure time	0,04 ... 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. 61 fps Binning 2×2, 640 × 512 px, max. 61 fps Binning 2×1, 640 × 1024 px, max. 61 fps Binning 1×2, 1280 × 512 px, max. 61 fps
image formats, acquisition frame rate max. (Burst Mode)	Full Frame, 1280 × 1024 px, max. 61 fps
pixel formats	BayerRG8 BayerRG10

image preprocessing

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

camera features

synchronization	free running trigger
trigger sources	Hardware software
internal image buffer	4 MB 1 image (Trigger Mode) 1 image (Free Running Mode)

interfaces and connectors

data interface	Gigabit Ethernet, Transfer rate 1000 Mbits/sec, Fast Ethernet, Transfer Rate 100 Mbits/sec, Connector: 8P8C Modular Jack (RJ45), screwable type
process interface	M8 / 4 pins (SACC-DSI-M 8MS-4CON-L180)
power supply	M8 / 4 pins

mechanical data

lens mount	CS-mount
width	29 mm
height	29 mm
depth	49 mm
weight	≤ 120 g
material	zinc die casting, nickel-plated, IP 40

electrical data

voltage supply range +Vs	12 ... 24 V DC (external power supply)
power consumption	approx. 2,2 W @ 12 VDC and 61 fps

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
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technical data

conformity

conformity

CE

RoHS

EAC

dimension drawing

