

overview

- 1280 × 1024 px
- ON Semiconductor PYTHON1300
- 1/2" CMOS
- 94 fps
- Gigabit Ethernet
- 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. 94 fps Binning 2×2, 640 × 512 px, max. 148 fps Binning 2×1, 640 × 1024 px, max. 148 fps Binning 1×2, 1280 × 512 px, max. 148 fps
image formats, acquisition frame rate max. (Burst Mode)	Full Frame, 1280 × 1024 px, max. 148 fps
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 ActionCommand
trigger delay	0 ... 2 sec, tracking and buffering of up to 256 trigger signals
internal image buffer	60 MB 16 images (Trigger Mode) 1 image (Free Running Mode)

interfaces and connectors

data interface	Gigabit Ethernet, Transfer rate 1000 Mb/s/sec, Fast Ethernet, Transfer Rate 100 Mb/s/sec, Connector: 8P8C Modular Jack (RJ45), screwable type
process interface	M8 / 8 pins (SACC-DSI-M8MS-8CON-M8-L180)
power supply	M8 / 8 pins or PoE

mechanical data

lens mount	C-mount
width	29 mm

technical data

mechanical data

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

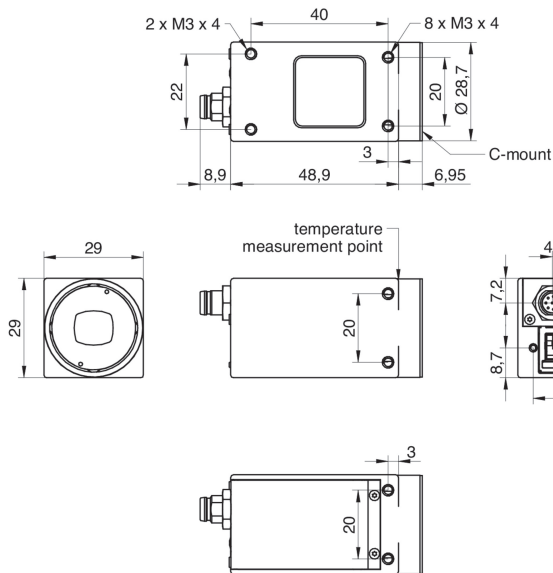
electrical data

voltage supply range +Vs	12 ... 24 V DC (external power supply) 36 ... 57 V DC (Power over Ethernet)
power consumption	approx. 2,6 W @ 12 VDC and 94 fps approx. 3,2 W @ 48 VDC (PoE) and 94 fps

non-volatile memory

flash memory size	128 kB
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dimension drawing



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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conformity

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