

overview

- 2592 × 2048 px
- ON Semiconductor PYTHON5000
- 1" CMOS
- 73 fps
- USB 3.0
- available



technical data

sensor information		camera features	
sensor	ON Semiconductor PYTHON5000	internal image buffer	471 MB 31 images (Trigger Mode) 1 image (Free Running Mode)
resolution	2592 × 2048 px	interfaces and connectors	
exposure time	0,02 ... 1000 ms	data interface	USB 3.0, Transfer Rate 5000 Mb/s/sec, Connector: USB 3.0 Micro B
pixel size	4.8 × 4.8 μm	process interface	M8 / 8 pins (SACC-DSI-M8MS-8CON-M8-L180)
shutter type	Global shutter	power supply	via USB 3.0 interface
sensor type	1" CMOS	mechanical data	
acquisition formats		lens mount	C-mount
image formats, interface frame rate max.	Full Frame, 2592 × 2048 px, max. 73 fps Binning 2×2, 1296 × 1024 px, max. 73 fps Binning 2×1, 1296 × 2048 px, max. 73 fps Binning 1×2, 2592 × 1024 px, max. 73 fps	width	29 mm
pixel formats	Mono8 Mono10	height	29 mm
image preprocessing		depth	38 mm
analog controls	Gain (0 ... 12 dB) Offset (0 ... 63 LSB 10 Bit)	weight	≤ 90 g
color models	Mono	material	zinc die casting, nickel-plated, IP 40
camera features		electrical data	
synchronization	free running trigger	power consumption	approx. 3,8 W @ 73,5 fps
trigger sources	Hardware software	operating voltage	5 VDC (via USB3.0 interface)
trigger delay	0 ... 2 sec, tracking and buffering of up to 256 trigger signals	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

technical data

digital I/Os

lines
1 input line
1 output line
2 general purpose lines

conformity

conformity
CE
RoHS
EAC

dimension drawing

