

overview

- 1920 × 1200 px
- Sony IMX174
- 1/1.2" CMOS
- 166 fps
- USB 3.0
- available



technical data

sensor information		image preprocessing	
sensor	Sony IMX174	color models	Mono Raw Bayer RGB
resolution	1920 × 1200 px		
exposure time	0,028 ... 60000 ms	camera features	
pixel size	5.86 × 5.86 µm	synchronization	free running trigger
shutter type	Global shutter	trigger sources	Hardware software
sensor type	1/1.2" CMOS	trigger delay	0 ... 2 sec, tracking and buffering of up to 256 trigger signals
acquisition formats		internal image buffer	469 MB 71 images (Trigger Mode) 1 image (Free Running Mode)
image formats, interface frame rate max.	Full Frame, 1920 × 1200 px, max. 166 fps Binning 2×2, 960 × 600 px, max. 166 fps Binning 2×1, 960 × 1200 px, max. 166 fps Binning 1×2, 1920 × 600 px, max. 166 fps	interfaces and connectors	
pixel formats	BayerRG8 BayerRG10 BayerRG12 BayerRG12 Packed Mono8 Mono10 Mono12 Mono12 Packed RGB8 BGR8	data interface	USB 3.0, Transfer Rate 5000 Mbits/sec, Connector: USB 3.0 Micro B
image preprocessing		process interface	M8 / 8 pins (SACC-DSI-M8MS-8CON-M8-L180)
analog controls	Gain (0 ... 48 dB) Offset (0 ... 255 LSB 12 Bit)	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

technical data

electrical data

power consumption	approx. 2,8 W @ 165 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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conformity

conformity	CE RoHS EAC
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dimension drawing

