

overview

- 3072 × 2048 px
- Sony IMX178
- 1/1.8" CMOS
- 47 fps
- USB 3.0
- available



technical data

sensor information

sensor	Sony IMX178
resolution	3072 × 2048 px
exposure time	0,014 ... 60000 ms
pixel size	2.4 × 2.4 µm
shutter type	Rolling shutter Global reset shutter
sensor type	1/1.8" CMOS

acquisition formats

image formats, interface frame rate max.	Full Frame, 3072 × 2048 px, max. 47 fps Binning 2×2, 1536 × 1024 px, max. 43 fps Binning 2×1, 1536 × 2048 px, max. 43 fps Binning 1×2, 3072 × 1024 px, max. 43 fps
image formats, acquisition frame rate max. (Burst Mode)	Full Frame, 3072 × 2048 px, max. 47 fps

pixel formats	BayerRG8 BayerRG10 BayerRG12 BayerRG12 Packed Mono8 Mono10 Mono12 Mono12 Packed RGB8 BGR8
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image preprocessing

analog controls	Gain (0 ... 26 dB) Offset (0 ... 255 LSB 12 Bit)
color models	Mono Raw Bayer RGB BGR

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	450 MB 25 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

technical data

mechanical data

material zinc die casting, nickel-plated, IP 40

electrical data

power consumption approx. 2,9 W @ 47 fps

operating voltage 5 VDC (via USB3.0 interface)

non-volatile memory

flash memory size 128 kB

environmental conditions

operating temperature +5 ... +65 °C @ T = measurement point

humidity 10 ... 90 % (non-condensing)

environmental conditions

protection class IP 40

digital I/Os

lines
1 input line
1 output line
2 general purpose lines

conformity

conformity CE
RoHS
EAC

dimension drawing

