

**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

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**

