

overview

- 1024 × 1024 px
- ON Semiconductor KAI-01050
- 1.2" CCD
- 120 fps
- Dual Gigabit Ethernet
- Phase-Out starting 09/19, alternative via sales



technical data

sensor information

sensor	ON Semiconductor KAI-01050
resolution	1024 × 1024 px
exposure time	0,004 ... 1000 ms
pixel size	5.5 × 5.5 µm
shutter type	Global shutter
sensor type	1.2" CCD

acquisition formats

image formats, interface frame rate max.	Full Frame, 1024 × 1024 px, max. 120 fps
pixel formats	Mono8 Mono10 Mono12

image preprocessing

analog controls	Gain (0 ... 26 dB)
color adjustment	Offset (0 ... 1023 LSB 14 Bit)
color models	Mono

camera features

synchronization	free running trigger
trigger sources	Hardware software ActionCommand
trigger delay	0 ... 2 sec, tracking and buffering of up to 512 trigger signals
sequencer	Automated control for series of images using different sets of parameters

camera features

sequencer parameter	exposure time gain factor output
digital inputs	3 input line (each with Debouncer)
digital outputs	3 output lines
internal image buffer	256 MB

interfaces and connectors

data interface	Dual Gigabit Ethernet, Transfer rate 2000 Mb/s/sec, Connector: 2 x 8P8C Modular Jack (RJ45), screwable type
process interface	M8 / 8 pins
power supply	M8 / 3 pins

mechanical data

lens mount	C-mount
width	52 mm
height	52 mm
depth	72 mm
weight	≤ 285 g
material	housing: aluminum

electrical data

voltage supply range +Vs	20 ... 30 V DC (external power supply) 38 ... 57 V DC (Power over Ethernet)
power consumption	approx. 10,5 W @ 24 VDC and 120,0 fps approx. 11 W @ 48 VDC (PoE) and 120,0 fps

technical data

environmental conditions

operating temperature	+5 ... +60 °C
humidity	10 ... 90 % (non-condensing)
protection class	IP 40

conformity

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	KC (R-REI-BkR-SXG80)
	RoHS
	FCC
	EAC

dimension drawing

