Baumer
Passion for Sensors

CX series

VCXU-02C

USB 3.0, 0,3 Megapixel, Color

Article number: 11165913

overview

- 640 × 480 px
- ON Semiconductor PYTHON300
- 1/4″ CMOS
- 891 fps
- USB 3.0

technical data

sensor information	
sensor	ON Semiconductor PYTHON300
resolution	640 × 480 px
exposure time	0,02 … 1000 ms
pixel size	4.8 × 4.8 µm
shutter type	Global shutter
sensor type	1/4″ CMOS
acquisition formats	
image formats, interface frame rate max.	Full Frame, 640 × 480 px, max. 891 fps Binning 2×2, 320 × 240 px, max. 891 fps Binning 2×1, 320 × 480 px, max. 891 fps Binning 1×2, 640 × 240 px, max. 891 fps
pixel formats	BayerRG8 BayerRG10 BayerRG12 BayerRG12 Packed Mono8 Mono10 Mono12 Mono12 Packed RGB8 BGR8
image preprocessing	
analog controls	Gain (0 … 12 dB) Offset (0 … 63 LSB 10 Bit)
color models	Mono Raw Bayer RGB

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	436 MB 496 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
material	zinc die casting, nickel-plated, IP 40
electrical data	
power consumption	approx. 2,6 W @ 891 fps
operating voltage	5 VDC (via USB3.0 interface)

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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

digital I/Os	
lines	1 input line 1 output line 2 general purpose lines
conformity	
conformity	CE RoHS KC (MSIP-REI-BkR-VCXU13M) EAC

dimension drawing