EoSens CoaXPress-12

EoSens9.5MCX12-FF
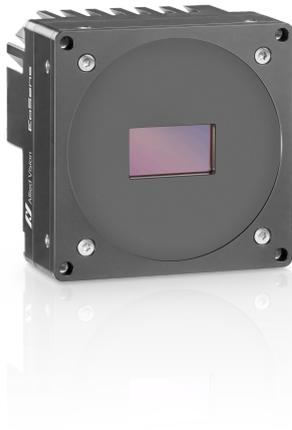
General

Model:	EoSens9.5MCX12-FF
Product code:	F006220
Product series:	EoSens CoaXPress-12
Status:	Available

Sensor

Sensor type:	Area scan
Chroma:	Mono
Spectrum:	Visible
Spectral range:	380 nm to 1000 nm
Resolution:	4,096 × 2,304 (9.50 MP)
Sensor model:	Luxima LUX9506
Sensor architecture (material):	cmos
Shutter type(s):	global-shutter
Sensor size:	26.62 × 14.98 mm (30.55 mm, 2)
Pixel size:	6.50 µm × 6.50 µm

Pixel formats

Sensor bit depth:	8-Bit,10-Bit,12-Bit
Monochrome pixel formats:	mono8, mono10, mono12

Timing and gain

Max. frame rate:	503 fps
Max. frame rate ROI modes:	4096 x 2304 | 503 fps, 1920 x 1080 | 2243 fps, 1280 x 720 | 4898 fps, 640 x 480 | 13498 fps, 4096 x 100 | 11039 fps, 512 x 512 | 15767 fps, 512 x 8 | 225000 fps,
Exposure time:	2 µs to 40.00 ms
Gain:	0.0 dB to 12.0 dB

I/Os and power

Non-isolated lines:	1 x LVDS input, 1 x LVDS output, 0 x TTL input, 0 x TTL output, 2 x 24V input, 2 x Open drain output,
Specific non-isolated lines:	1 x RS232 input, 1 x RS232 output, 0 x RS422 input, 0 x RS422 output,
Opto-isolated lines:	0 x Optical isolated input, 0 x Optical isolated input,
Power supply:	Power over CoaXPress
Power consumption:	21 W (typical)

Operating conditions

Operating temperature (housing):	-10 °C to 60 °C

Mechanical properties

Body dimensions (L x W x H in mm):	49 × 80 × 80
IP class:	IP30
Lens mount(s):	Flat Front
Weight:	630 g

Interfaces

Digital interface:	cxp-12 with 4 connections
Interface connector:	(micro-BNC)

FW features - image control

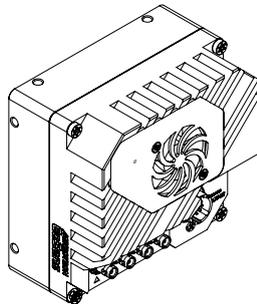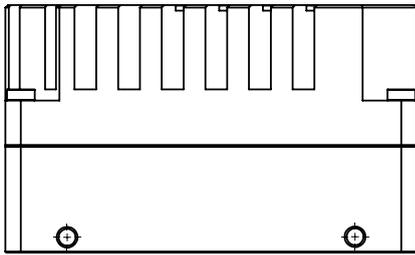|	
Exposure modes:	external
Gain modes:	Digital, Analog
Image control features:	FW Features - Image Control

FW features - camera control

Trigger modes/sync:	External TTL Signal, CXP-Trigger

LUX9506V3 Mono Spectral Response

4 x∅ 2,5▽ 5,1
M3 - 6H▽ 4,5

4 x∅ 3,3▽ 6
M4 - 6H▽ 5

□59
□72
∅ 75 +0,05 / 0
□80

36
23,2
16,1
15,8
10,1
0

Power I/O

Connector:
SE 10A-10P-12S

A

0
9,1
16,2
25,2
34,2
43,2
50,3
61
70,5

MIKROTRON
EoSens

MIKROTRON
EoSens

48,5
32
20,9
4
3,77
0,6
0

optical distance

mechanical adjustment
without compensation

20
0
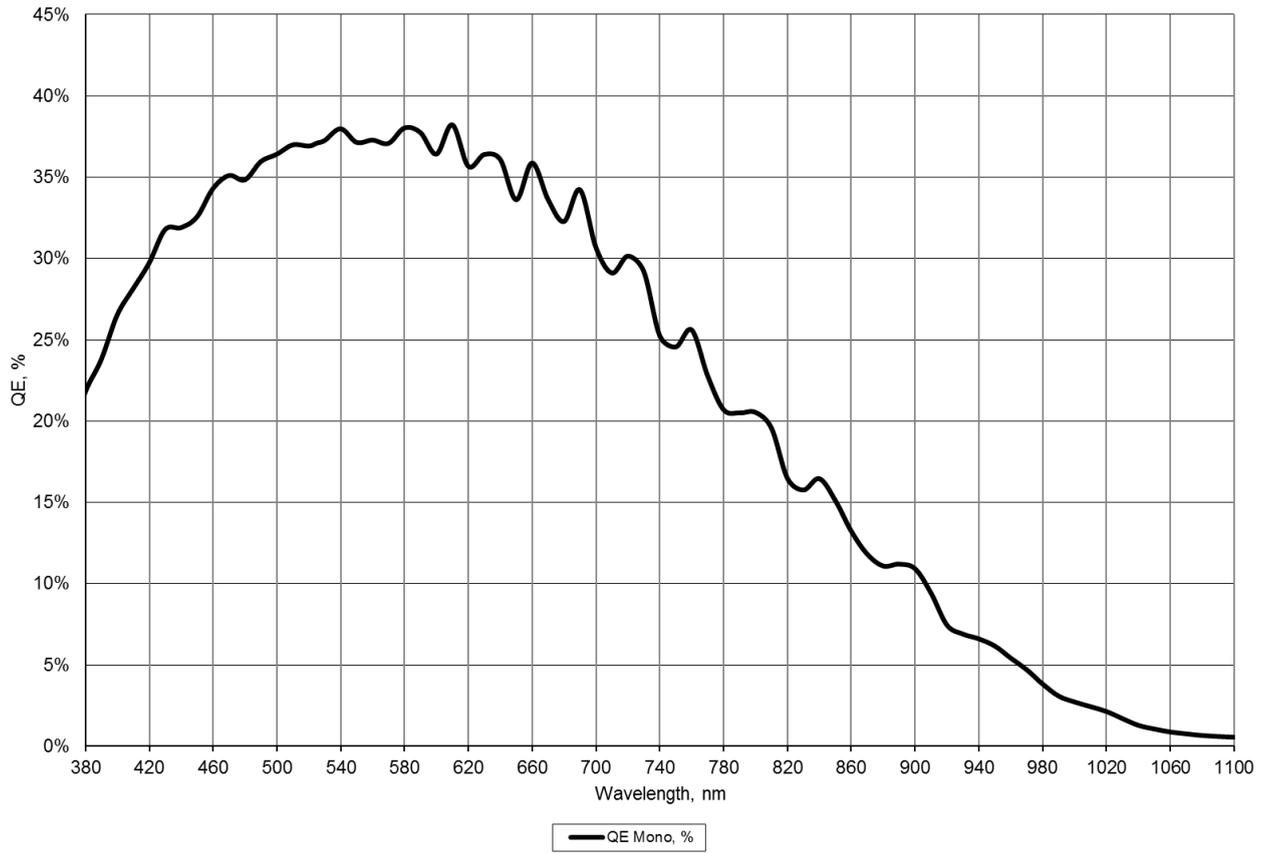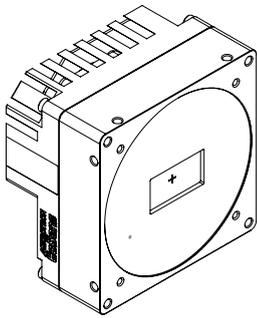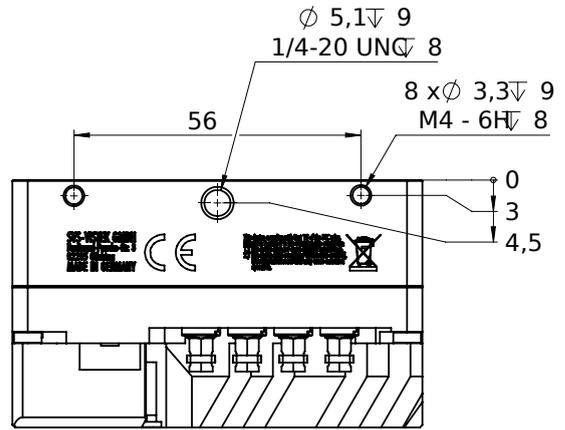
I/O pin assignment

Pin	Signal	Pin	Signal
1	V_{out}- (GND)	7	OUT 1 (open drain)
2	V_{out}+ (24 V)	8	OUT 2 (open drain)
3	IN 4 RxD (RS 232)	9	LVDS Input P
4	OUT 4 TxD (RS 232)	10	LVDS Input N
5	IN 1 (0-24 V)	11	LVDS Output P
6	IN 2 (0-24 V)	12	LVDS Output N