



EoSens CoaXPress-12

EoSens21MCX12-FF

General

Model	EoSens21MCX12-FF
Product code	F006226
Product series	EoSens CoaXPress-12
Status	Available

Sensor

Sensor type	Area scan
Chroma	Mono
Spectrum	Visible
Spectral range	350 nm to 1000 nm
Resolution	5,120 × 4,096 (21.00 MP)
Sensor model	Gpixel GSPRINT4521
Sensor architecture (material)	cmos
Shutter type(s)	Global shutter (GS)
Sensor size	23.04 × 18.43 mm (29.51 mm, Type APS-C)
Pixel size	4.50 µm × 4.50 µm

Pixel formats

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

Timing and gain

Max. frame rate	230 fps
Max. frame rate ROI modes	5120 x 4096 230 fps, 5120 x 3072 305 fps, 5120 x 1024 891 fps, 5120 x 128 5540 fps, x 12560 fps,
Exposure time	4 µs to 1 s
Gain	0.0 dB to 12.0 dB

I/Os and power

Non-isolated lines	0 x LVDS input, 0 x LVDS output, 0 x TTL input, 0 x TTL output, 2 x 24V input, 0 x Open drain output,
Specific non-isolated lines	0 x RS232 input, 0 x RS232 output, 0 x RS422 input, 0 x RS422 output,
Opto-isolated lines	0 x Optical isolated input, 0 x Optical isolated input,
I/O connector	12-pin Hirose HR10A-10P-12S
Power supply	12 to 24VDC
Power consumption	External: 21 W (typical)

Operating conditions

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

Mechanical properties

Body dimensions (L x W x H in mm)	47 × 80 × 80
IP class	IP30
Lens mount(s)	Flat Front
Weight	630 g

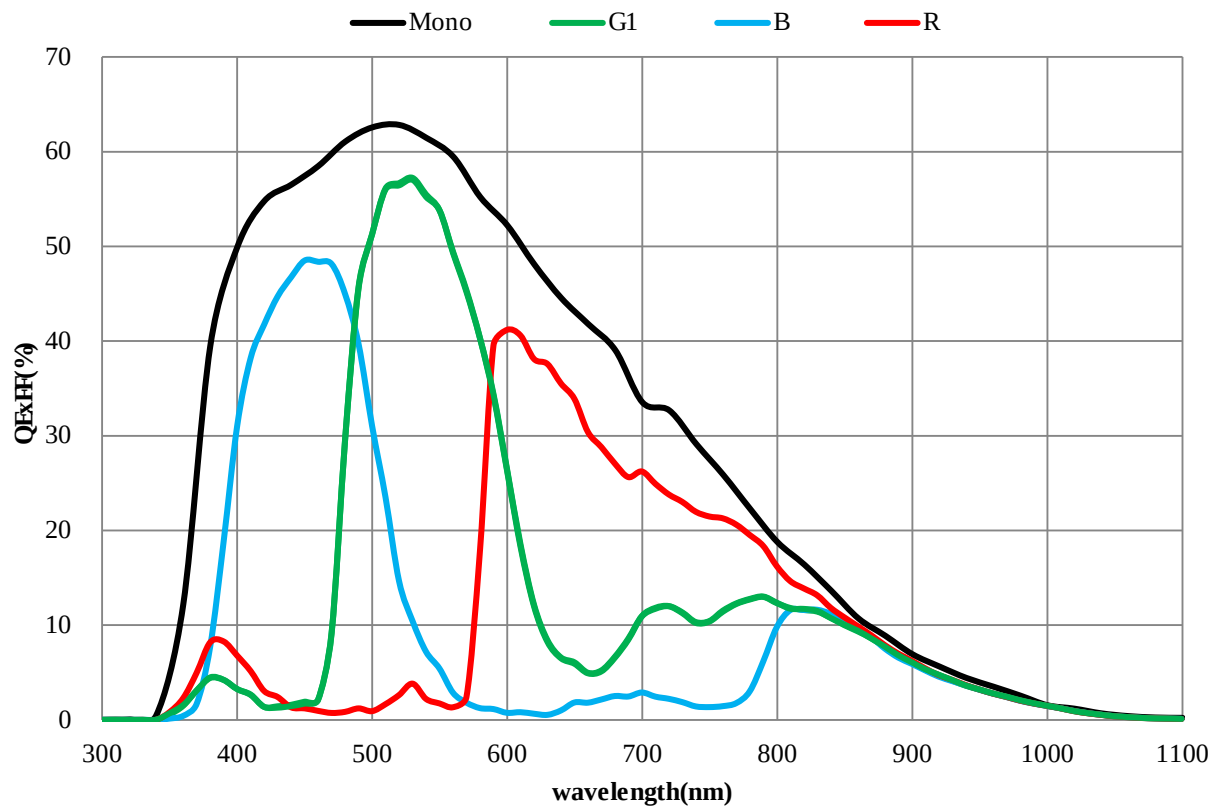
Interfaces

Digital interface	cxp-12 with 4 connections
Interface connector	(micro-BNC)
Vision standard	CoaXPress 2.0

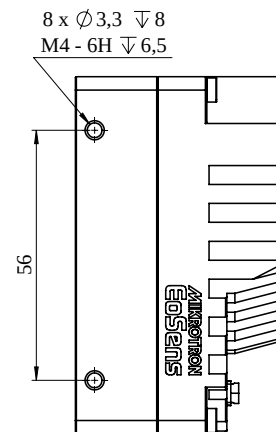
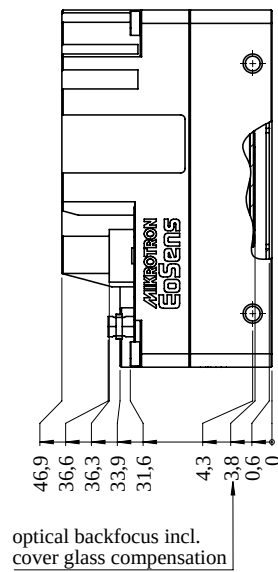
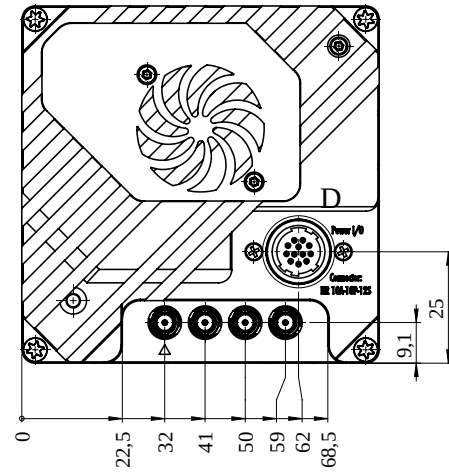
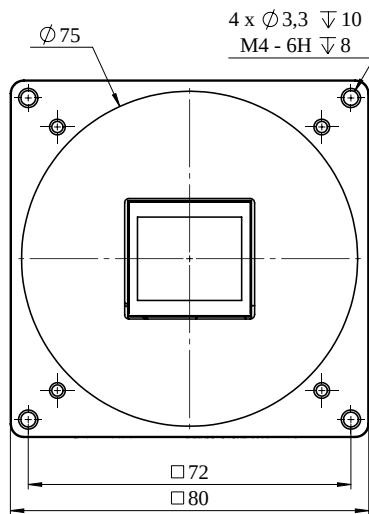
FW features - image control

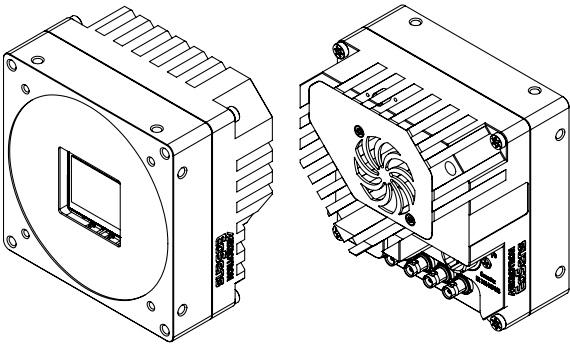
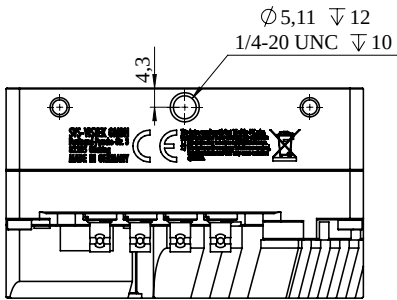
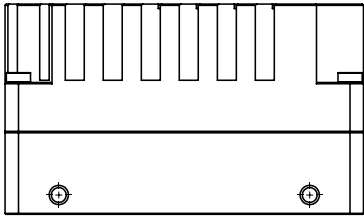
Exposure modes	external
Gain modes	digital, analog
White balance modes	true
Image control features	roi, mirror-image

Quantum Efficiency

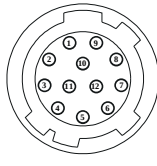


Technical Drawing





I/O pin assignment

	Pin	Signal	Pin	Signal
	1 + 12	GND	6	IN0
	2 + 11	VCC (12 - 24 V)	7	IO _{GND}
	3	IO _{GND}	8	OUT1
	4	OUT0	9	IO _{GND}
	5	IO _{GND}	10	IN1