

EXO USB3

exo264CU3



General

Model	exo264CU3
Product code	F001709
Product series	EXO USB3
Status	Available

Sensor

Sensor type	Area scan
Chroma	Color
Spectrum	Visible
Spectral range	400 nm to 1000 nm
Resolution	2,448 × 2,048 (5.00 MP)
Sensor model	Sony IMX264
Sensor architecture (material)	cmos
Shutter type(s)	Global shutter (GS)
Sensor size	8.45 × 7.07 mm (11.01 mm, 11.1mm (Type 2/3))
Pixel size	3.45 µm × 3.45 µm

Pixel formats

Sensor bit depth	8-bit, 12-bit
RGB pixel formats	bayer8, bayer12packed

Imaging performance

Dynamic range	71.5 dB
SNR	39.5 dB

Timing and gain

Max. frame rate	35 fps
Exposure time	28 μ s to 60 s
Gain	0.0 dB to 48.0 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, 4 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	1 x Optical isolated input, 0 x Optical isolated input,
Power supply	10 to 25VDC
Power consumption	External: 4.5 W (typical)

Operating conditions

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

Body dimensions (L x W x H in mm)	43 x 50 x 50
IP class	IP40
Lens mount(s)	C-Mount
Weight	138 g

On-board memory and FPGA

Image buffer (RAM)	192 MByte
Non-volatile memory (Flash)	32 MByte

Interfaces

Digital interface	usb3.0
Interface connector	(Micro-B)

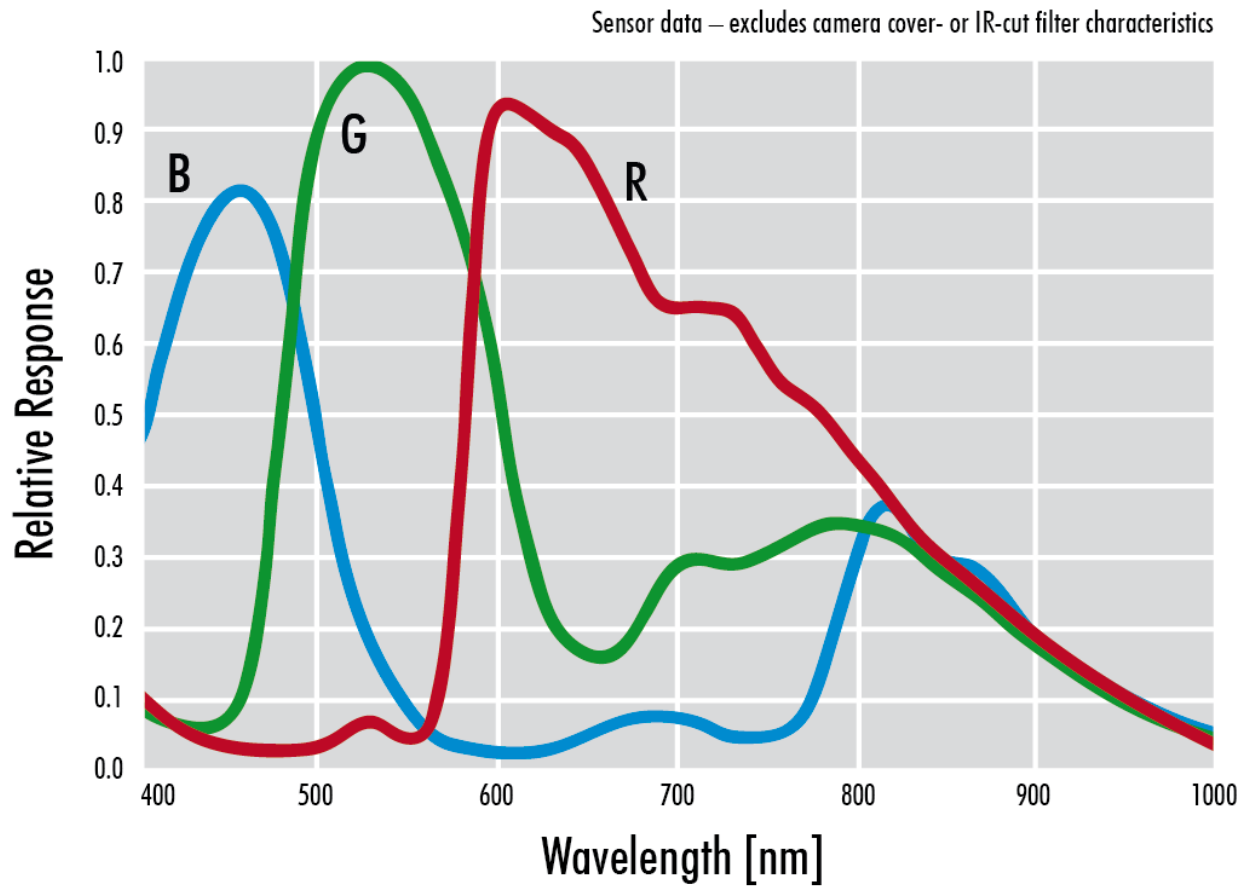
FW features - image control

Exposure modes	manual, auto, external
Gain modes	auto, manual
White balance modes	auto, manual
Image control features	roi, lut, mirror-image, dpc, shading-correction

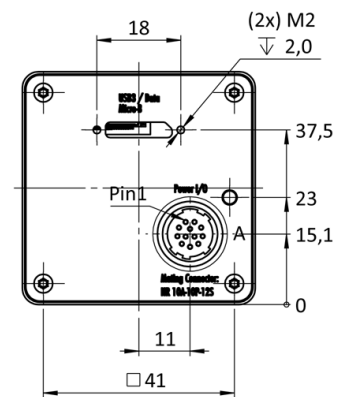
FW features - camera control

Trigger modes/sync	internal, software, external
Camera control features	User Sets, PWM(4), Sequencer,

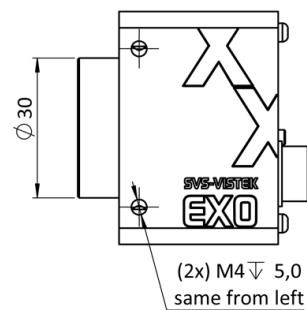
Quantum Efficiency



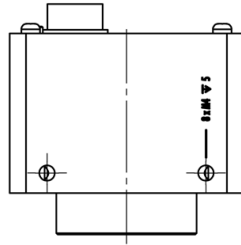
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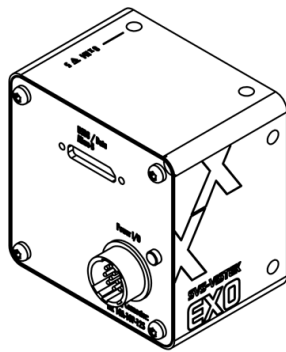
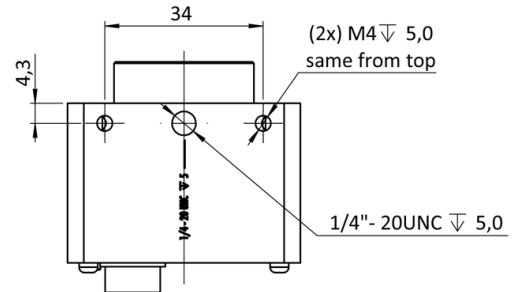
right side



top

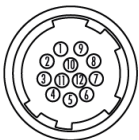


bottom



I/O pin assignment

Hirose 12 Pin



1	VIN -	(GND)	7	OUT 1	(open drain)
2	VIN +	(10 V to 25 V DC)	8	OUT 2	(open drain)
3	IN 4	(RXD RS232)	9	IN 3 +	(opto In +)
4	OUT 4	(TXD RS232)	10	IN 3 -	(opto In -)
5	IN 1	(0-24V)	11	OUT 3	(open drain)
6	IN 2	(0-24V)	12	OUT 0	(open drain)