

exo183CGETR

EXO Tracer



The EXO Tracer is an industrial camera with a fully functional lens control (focus, zoom, aperture). Lens mount is a Micro Four Thirds (MFT) mount. The excellent thermal concept of the EXO qualifies for a operating temperature of up to 60° C.

The MFT beam geometry on the sensor side of the lens works in perfect harmony to the high sensitive Sony IMX sensors. A nearly perfect flatfield is the compelling result. Together with up to 72dB dynamic range and up to 20 MP resolution, the Tracer delivers excellent image quality.

Lens control and integrated strobe controller are integrated into the camera's GenlCam 3.0 tree as properties. Any GenlCam-driven software is immediately able to use lens control and strobe controller without additional drivers.

Technical Highlights

Rich set of features

- > Full control of lens (focus, zoom, aperture)
- > Global shutter
- > Monochrome and color versions (Bayer Pattern)
- > Various trigger (int./ext./free running) and exposure modes
- > Logic-Trigger functions (PLC)
- > Adjustable gain, auto gain and auto- exposure
- > Various binning modes
- > Area of interest modes (AOI)
- > White balance for color versions
- > Micro Four Thirds lens adapter
- > 8/12 Bit video data stream (14 Bit ADC)
- > 256 MB burst mode frame store
- > 4 x Power Output (PWM)
- > Programmable sequencer für shutter and LED illumination
- > SDK for Windows (32/64 Bit) und Linux available
- > GenlCam 3.0 standard compliant
- > Integrated multichannel strobe controller

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EXO Series

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Resolution	5496 х 3672 рх
Frame rate (max.)	6 fps
Frame rate burst mode (max.)	16 fps
Chroma	color
Interface	GigE Vision

Sensor

Sensor	IMX183CQJ	
Manufacturer	Sony	
Sensor type	Area CMOS	
Shutter type	rolling shutter	
Sensor size (h x v)	13.19 x 8.81 mm	
Optical diagonal	15.86 mm	
Sensor format	1 "	
Pixel size (h x v)	2.4 x 2.4 µm	

Camera

Exposure modes	MANUAL;AUTO		
Trigger modes	INTERNAL;SOFTWARE;EXTERNAL		
Exposure time (min)	120 µs		
Exposure time (max)	1 sec		
Pixel format / max	bayer8, bayer12packed / 12 bit		
Gain modes / max	manual, auto / 18 dB		
S/N ratio	40 dB (dep. on environment)		
Dynamic range	71.5 dB (dep. on environment)		
Internal memory	256 MB SDRAM, 32 MB Flash		

Feature Set

Manual white balance	yes	
Automatic white balance	yes	
AOI	yes	
LUT	yes	
Offset	yes	
Readout control	yes	
Binning	yes	
lmage flip	yes	
Sequencer	yes	

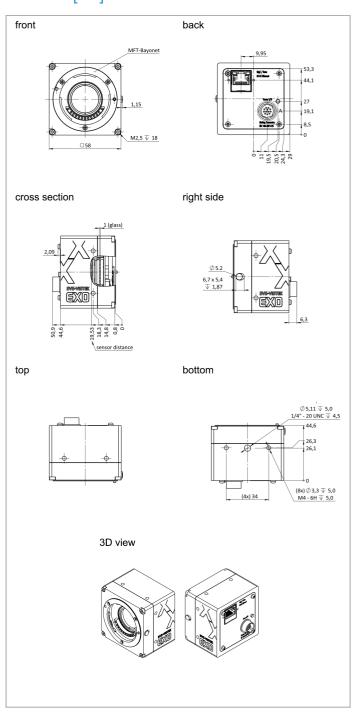
Housing

Lens mount	MFT	
Dimensions (w x h x d)	58 x 58 x 44.5 mm	
Weight	320 g	
Operating temperature (housing)	-10 to 60 °C	
Ambient humidity	10 to 90 % (non-condensing)	
Protection class	IP40	

I/O-Interfaces

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Input up to 24V	2 x	
Input OPTO	1 x	
Output open drain	4 x	

Dimensions [mm]

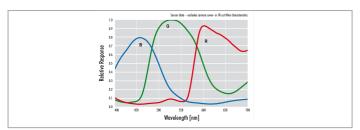


Pinout Mating Connector

Hirose 12 Pin	1	VIN —	(GND)	7	OUT 1	(open drain)
	2	${\tt VIN} + $	(10 V to 25 V DC)	8	OUT 2	(open drain)
	3	IN 4	(RXD RS232)	9	IN3+	(opto In+)
	4	0UT 4	(TXD RS232)	10	IN 3 —	(opto In —)
(\\ 000 }	5	IN 1	(0 - 24V)	11	0UT 3	(open drain)
	6	IN 2	(0-24V)	12	0 TUO	(open drain)

I/O RS-232	1 x
Power supply	10 to 25 V (DC)
Power consumption	7 W (den. on operating mode)

Spectral Response *



^{*} Sensor data — excludes camera cover- or IR-cut filter characteristics