

# exo183MGETR

**FXO** 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  $60^{\circ}$ 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

## EXO Series

Resolution	5496 x 3672 px	
Frame rate (max.)	6 fps	
Frame rate burst mode (max.)	16 fps	
Chroma	mono	
Interface	GiaF Vision	

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Sensor	
Sensor	IMX183CLK
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	] "
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	mono8, mono12packed / 12 bit		
Gain modes / max	manual, auto / 27 dB		
S/N ratio (max)	40 dB (dep. on environment)		
Dynamic range (max)	71.5 dB (dep. on environment)		
Internal memory	256 MB SDRAM, 32 MB Flash		

#### Feature Set

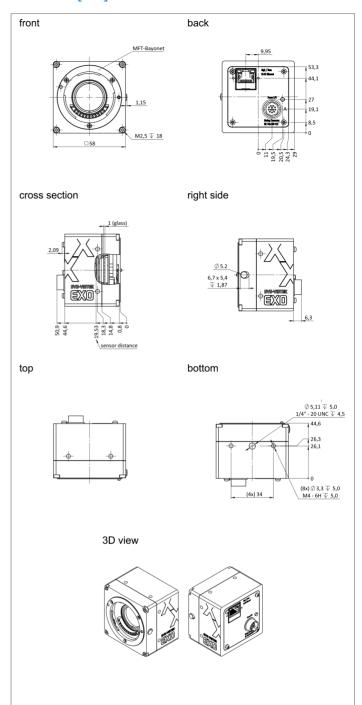
Leatnle 261		
AOI	yes	
LUT	yes	
Offset	yes	
Readout control	yes	
Binning	yes	
Image flip	yes	
Sequencer	yes	

### 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	
Input up to 24V	2 x
Input OPTO	1 x
Output open drain	4 x
I/O RS-232	1 x
Power supply	10 to 25 V (DC)
Power consumption	7 W (dep. on operating mode)

# Dimensions [mm]



# Pinout Mating Connector

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	IN3+	(opto In+)
	4	0UT 4	(TXD RS232)	10	IN3-	(opto In —)
	5	IN 1	(0-24V)	11	OUT 3	(open drain)
	6	IN 2	(0-24V)	12	0 TU0	(open drain)