

# FXO 25GigE

fxo531M25GE



## General

Model:	fxo531M25GE
Product code:	F002306
Product series:	FXO 25GigE
Status:	Available

## Sensor

Sensor type:	Area scan
Chroma:	Mono
Spectrum:	Visible
Spectral range:	400 nm to 1000 nm
Resolution:	4,512 × 4,512 (20.40 MP)
Sensor model:	Sony IMX531
Sensor architecture (material):	cmos
Shutter type(s):	global-shutter
Sensor size:	12.36 × 12.36 mm (17.48 mm, 17.5mm (Type 1.1))
Pixel size:	2.74 μm × 2.74 μm

## Pixel formats

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

## Imaging performance

Dynamic range:	72 dB
SNR:	39 dB

## Timing and gain

Max. frame rate:	109.5 fps
Exposure time:	4 $\mu$ 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: 19 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):	100 × 50 × 50
Filter/protection glass:	K9 - AR coating - 400-850nm
IP class:	IP30
Lens mount(s):	C-Mount
Weight:	320 g

## On-board memory and FPGA

Image buffer (RAM):	4032 MByte
Non-volatile memory (Flash):	128 MByte

## Interfaces

Digital interface:	25gige
Interface connector:	(SFP28)

## FW features - image control

Exposure modes:	Manual, Auto, External
Gain modes:	Auto, Manual

## FW features - image control

Image control features:

FW Features - Image Control

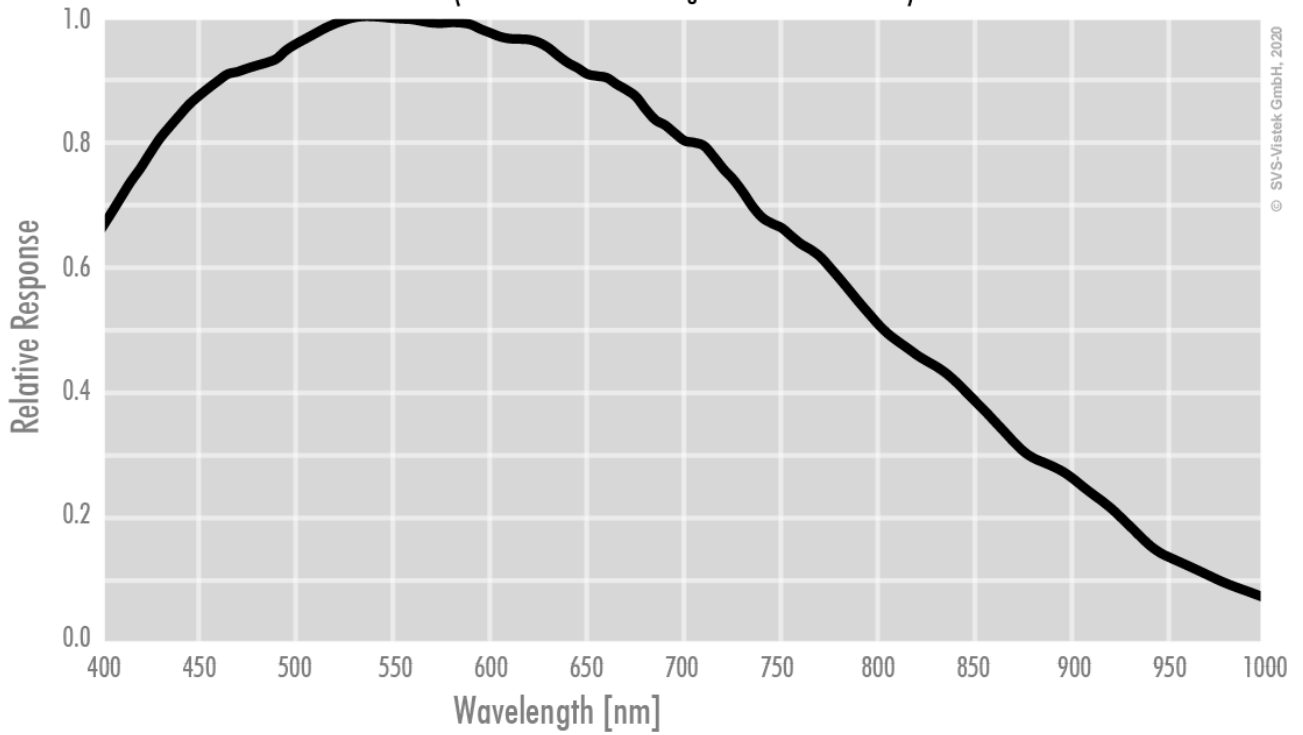
## FW features - camera control

Camera control features:

PTP, RDMA support, User Sets, PWM(4), Sequencer,

## Monochrome

(not included: lens- and light source characteristics)



## I/O pin assignment



1	VIN-	(GND)	7	OUT1	(open drain)
2	VIN+	(10 V to 25 V DC)	8	OUT2	(open drain)
3	IN4	(RXD RS232)	9	IN3+	(opto In+)
4	OUT4	(TXD RS232)	10	IN3-	(opto In-)
5	IN1	(0-24V)	11	OUT3	(open drain)
6	IN2	(0-24V)	12	OUT0	(open drain)