



FX0 25GigE

fxo537C25GE

With the modern Sony Pregius S sensor, the FX0 25GigE offers outstanding image quality together with an economical high-performance interface. Distances up to 10,000 meter are supported. The control is transparent to GigE Vision.

The camera is equipped with RDMA (Remote Direct Memory Access) technology. With this technology, it is possible to transfer image data directly to the main memory of a PC. This does not stress the operating system and CPU, significantly improving reliability and performance and greatly reducing latency/response time. The CPU can perform other tasks due to this relief.

The solid, CNC-milled housing offers excellent temperature management gives excellent image homogeneity.

The large image memory supports the rapid triggering of image sequences regardless of the network load.

The fan can be fully deactivated via software and features a hermetic seal that isolates airflow from internal components, ensuring compatibility with critical cleanroom environments. Optional heatsinks help keep your camera in optimal operating conditions.

Technical Highlights

- Excellent homogeneity across the entire image
- Thermally optimized, milled aluminum housing
- 25GigE Interface (+RDMA)
- Integrated 4-channel LED strobe controller
- ROI, lookup tables
- C mount
- IO interface with 2xIN, 4xOUT, Opto and RS232
- with SafeTrigger, programmable timers, logic functions (PLC) and sequencer



25 **GigE**
+RDMA

LED
4 INTEGRATED
LED CONTROLLERS

SEQ
INTEGRATED
SEQUENCER

STT
SAFE TRIGGER
TECHNOLOGY

PLC
PROGRAMMABLE
LOGIC CONTROL

CHAT WITH US



Specifications

| | |
|--------------------|-------------------|
| Resolution [MP] | 5 MP |
| Resolution (h x v) | 2448 x 2048 px |
| Frame rate(max.) | 262 fps |
| Chroma | color |
| Interface | 25GigE (SFP28) |

Sensor

| | |
|---------------------|---------------------------|
| Sensor | IMX537AAQJ |
| Manufacturer | Sony |
| Sensor type | Area CMOS |
| Shutter type | global shutter |
| Sensor size (h x v) | 6.71 x 5.61 mm |
| Optical diagonal | 8.75 mm |
| Sensor format | 8.8mm (Type 1/1.8) |
| Pixel size (h x v) | 2.74 x 2.74 μm |

Camera

| | |
|---------------------|-----------------------------|
| Exposure modes | MANUAL;AUTO;EXTERNAL |
| Exposure time (min) | 4 μs |
| Exposure time (max) | 60 sec (external ∞) |
| Pixel format / max | bayer8, bayer12 / 12 bit |
| Gain modes | manual, auto |
| S/N ratio (max) | 39 dB (dep. on environment) |
| Dynamic range (max) | 72 dB (dep. on environment) |
| Internal memory | 4096 MB SDRAM, 128 MB Flash |

Feature Set

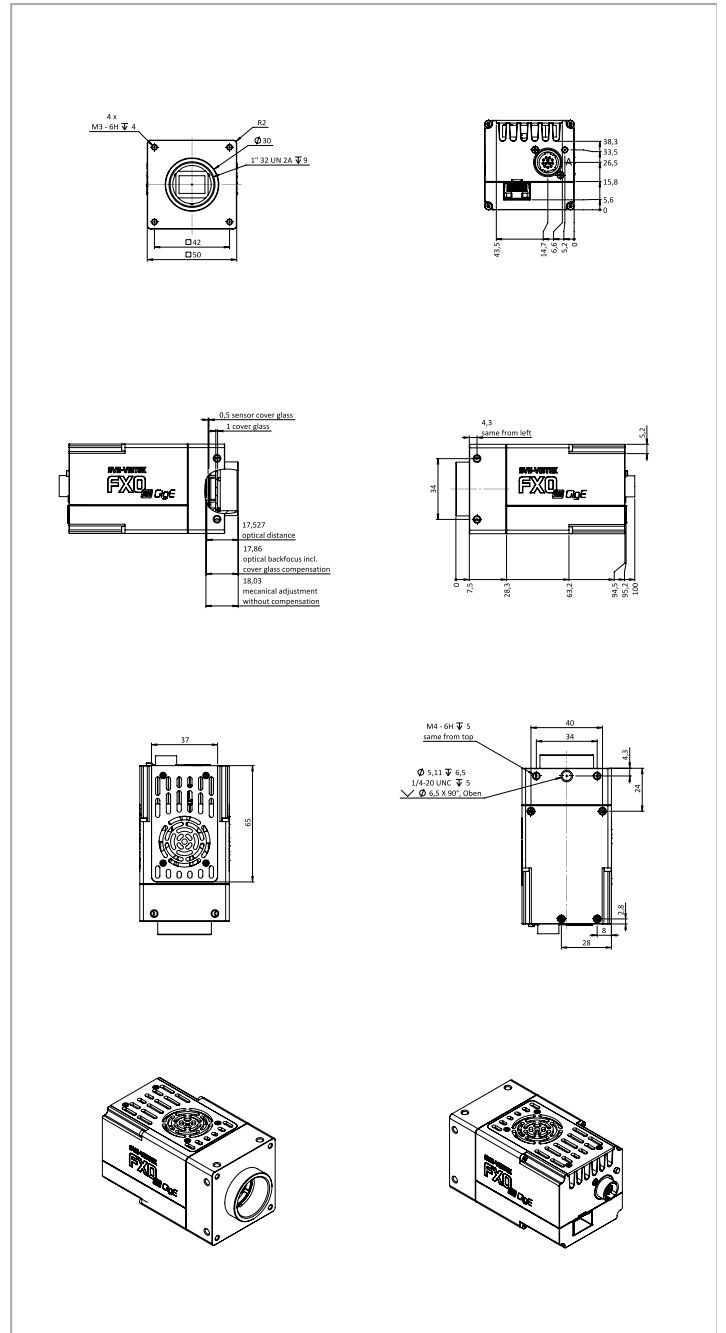
| | |
|------------------------------|-----|
| Manual white balance | yes |
| Automatic white balance | yes |
| AOI | yes |
| LUT | yes |
| Offset | yes |
| Binning | yes |
| Image flip | yes |
| Sequencer | yes |
| RDMA RoCE v2 | yes |
| PTP | yes |
| Color Transformation Control | yes |

Housing

| | |
|---------------------------------|------------------------------|
| Lens mount | C-Mount |
| Dimensions (w x h x d) | 50 x 50 x 100 mm |
| Weight | 320 g |
| Operating temperature (housing) | -10 to 60 $^{\circ}\text{C}$ |
| Protection class | IP30 |
| Filter-/Coverglass | IR-Cut 680 |

I/O-Interfaces

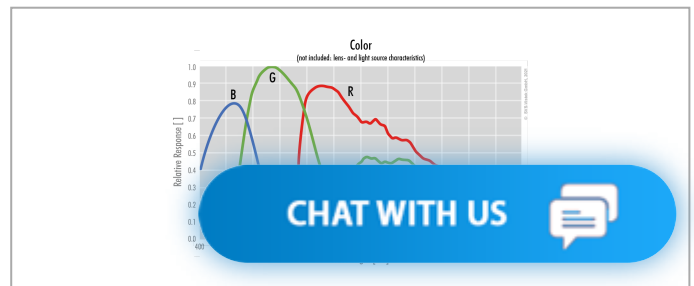
| | |
|-------------------|---------------------------------|
| Input up to 24V | 2 x |
| Input OPTO | 1 x |
| Output open drain | 4 x |
| I/O RS-232 | 1 x |
| Power supply | 10 to 25 V (DC) |
| Power consumption | 17.5 W (dep. on operating mode) |



Pinout Mating Connector

| Hirose 12 Pin | 1 | VIN - (GND) | 7 | OUT1 (open drain) |
|---------------|---|-------------------------|----|--------------------|
| | 2 | VIN + (10 V to 25 V DC) | 8 | OUT2 (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) |

Spectral Response *



* Sensor data – excludes camera cover- or IR-cut filter characteristics

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