

HR CoaXPress

hr49CCX12

CoaXPress transmits up to 6.25Gbit/s per line for CoaXPress-6 interfaces and even 12.5Gbit/s for the CoaXPress-12 interface. The Interface also supports long data lines. CXP lines can be operated in parallel. The high bandwidth of current CMOS sensors can therefore be optimally utilized.

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

With its high-resolution CMOS sensors from Sony, Gpixel and ON Semi, the HR CoaXPress delivers outstanding frame rates and offers a wide range of industrial hardware and software features.

- ROI, LUT, Binning, Offset
- Lens shading correction
- Integrated multi-channel LED strobe controller
- CoaXPress-6 or CoaXPress-12
- Industrial TTL-24V I/O interface with SafeTrigger, programmable logic functions, sequencer, timer, RS232
- Power over CXP
- Ideal for cleanrooms



LED
4 INTEGRATED
LED CONTROLLERS

SEQ
INTEGRATED
SEQUENCER

STT
SAFE TRIGGER
TECHNOLOGY

PLC
PROGRAMMABLE
LOGIC CONTROL

Specifications

| | |
|--------------------|--|
| Resolution [MP] | 49 MP |
| Resolution (h x v) | 7008 x 7000 px |
| Frame rate(max.) | 71 fps |
| Chroma | color |
| Interface | CXP-12 with 4 Connections (micro-BNC) |

Sensor

| | |
|---------------------|-------------------------|
| Sensor | GMAX3265-49 |
| Manufacturer | Gpixel |
| Sensor type | Area CMOS |
| Shutter type | global shutter |
| Sensor size (h x v) | 22.43 x 22.4 mm |
| Optical diagonal | 31.7 mm |
| Sensor format | 37.4mm (2.3") |
| Pixel size (h x v) | 3.2 x 3.2 μm |

Camera

| | |
|---------------------|-----------------------------|
| Exposure modes | MANUAL;AUTO;EXTERNAL |
| Trigger modes | INTERNAL;SOFTWARE;EXTERNAL |
| Exposure time (min) | 12 μs |
| Exposure time (max) | 60 sec (external ∞) |
| Pixel format / max | bayer8, bayer10 / 10 bit |
| Gain modes | manual, auto |
| Internal memory | 1024 MB SDRAM, 160 MB Flash |

Feature Set

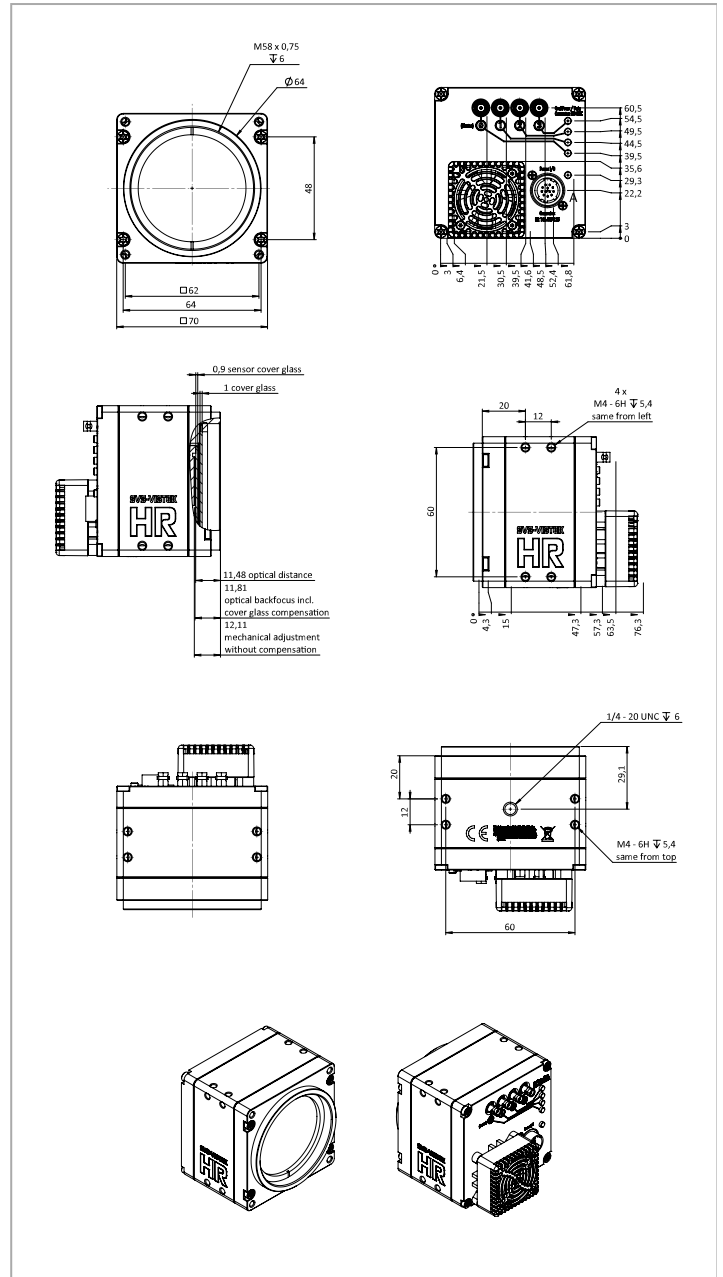
| | |
|-------------------------|-----|
| Manual white balance | yes |
| Automatic white balance | yes |
| AOI | yes |
| LUT | yes |
| Offset | yes |
| Binning | yes |
| Image flip | yes |
| Sequencer | yes |

Housing

| | |
|---------------------------------|-----------------------------|
| Lens mount | M58x0.75 |
| Dimensions (w x h x d) | 70 x 70 x 76.3 mm |
| Weight | 420 g |
| Operating temperature (housing) | -10 to 60 °C |
| Ambient humidity | 10 to 90 % (non-condensing) |
| Protection class | IP30 |

I/O-Interfaces

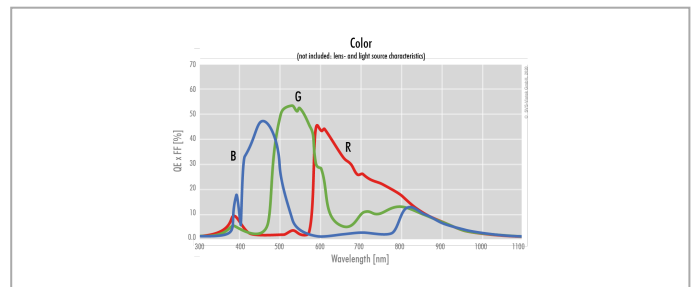
| | |
|-------------------|-------------------------------|
| Input up to 24V | 2 x |
| Input OPTO | 1 x |
| Output open drain | 4 x |
| I/O RS-232 | 1 x |
| Power supply | 10 to 25 V (DC) |
| Power consumption | 18 W (dep. on operating mode) |



Pinout Mating Connector

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

Spectral Response *



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

