

hr120MCX

HR CoaXPress



The interface standard CoaXPress was developed to meet the need for higher bandwidth generated by recently launched sensors. In particular the latest high resolution CMOS sensors from Sony and ON Semi are capable of extremely high frame rates. CoaXPress therefore is the first choice for applications where speed is of prime importance.

Technical Highlights

- > ROI, LUT, binning, offset, gamma
- > Lens shading correction
- > Integrated multi channel LED strobe controller
- > CoaXPress (4 x 6.25 Gbit/s)
- > Industrial TTL-24V I/O Interface with SafeTrigger, programmable logic, sequencer and timers, RS232
- > Power over CXP

SVS-Vistek GmbH - Ferdinand-Porsche-Str. 3 - 82205 Gilching - Germany - Telephone +49 8105 3987-60

Information accurate as to: 16.11.2022, errors and omissions excepted.

© 2022 – SVS-Vistek GmbH, all rights reserved.

HR Series

hr120MCX

Resolution [MP]	122 MP
Resolution (h x v)	13264 x 9176 px
Frame rate (max.)	9.3 fps
Chroma	mono
Interface	4 CXP-6 Connections

Sensor

Sensor	120MXSM
Manufacturer	Canon
Sensor type	Area CMOS
Shutter type	rolling shutter
Sensor size (h x v)	29.18 x 20.19 mm
Optical diagonal	35.48 mm
Sensor format	APS-H
Pixel size (h x v)	2.2 x 2.2 μm

Camera

Exposure modes	MANUAL;AUTO
Trigger modes	INTERNAL;SOFTWARE;EXTERNAL
Exposure time (min)	46 μs
Exposure time (max)	1 sec
Pixel format / max	mono8, mono10 / 10 bit
Gain modes	manual, auto
S/N ratio (max)	39.6 dB (dep. on environment)
Dynamic range (max)	60.3 dB (dep. on environment)
Internal memory	512 MB SDRAM, 160 MB Flash

Feature Set

AOI	yes
LUT	yes
Offset	yes
Binning	yes
Image flip	yes
Shading correction	yes (external)
Defect pixel correction	yes
Sequencer	yes

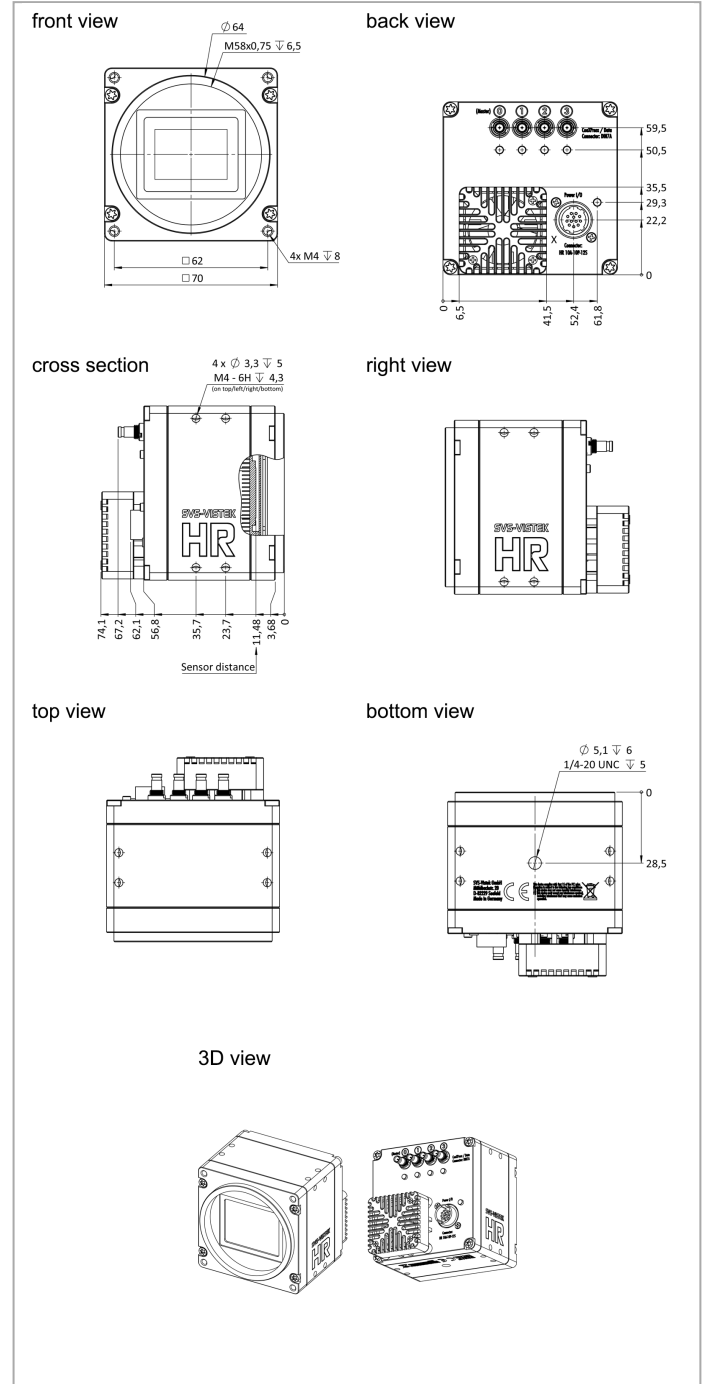
Housing

Lens mount	M58x0.75
Dimensions (w x h x d)	70 x 70 x 74.1 mm
Weight	380 g
Operating temperature (housing)	-10 to 55 °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

Dimensions [mm]

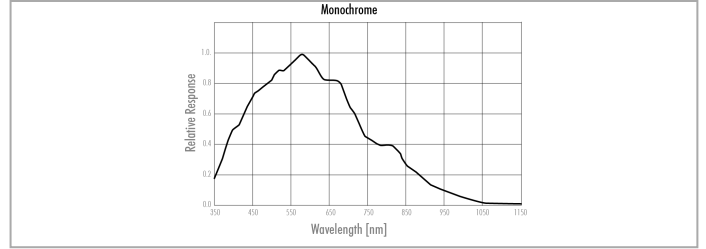


Pinout Mating Connector

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	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 *

Power supply	10 to 25 V (DC)
Power consumption	14 W (dep. on operating mode)



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