

hr51MCX

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

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

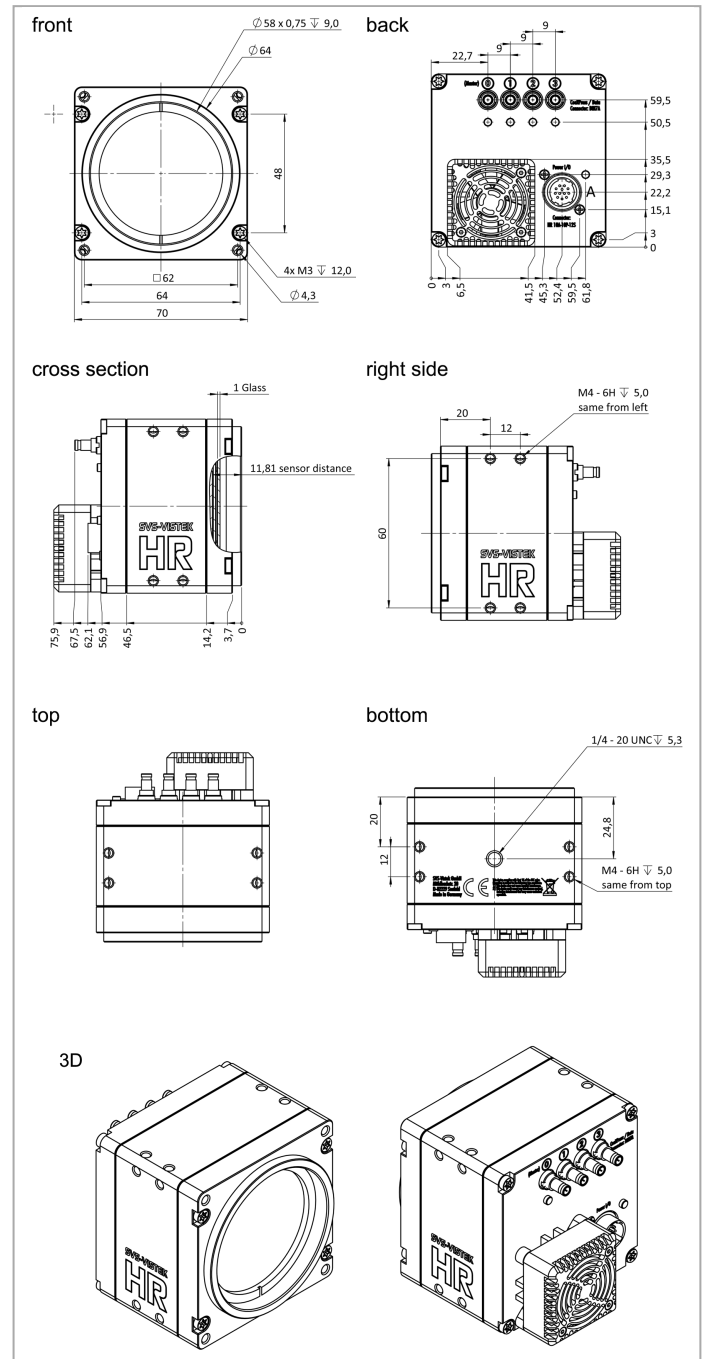
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HR Series

hr51MCX

Resolution [MP]	51 MP
Resolution (h x v)	8416 x 6032 px
Frame rate (max.)	30 fps
Chroma	mono
Interface	4 CXP-6 Connections
Sensor	
Sensor	GMAX4651
Manufacturer	Gpixel
Sensor type	Area CMOS
Shutter type	global shutter
Sensor size (h x v)	38.71 x 27.75 mm
Optical diagonal	47.63 mm
Sensor format	35mm Full Frame
Pixel size (h x v)	4.6 x 4.6 μm
Camera	
Exposure modes	MANUAL;AUTO
Trigger modes	INTERNAL;SOFTWARE;EXTERNAL
Exposure time (min)	80 μs
Exposure time (max)	1 sec
Pixel format / max	mono8, mono12 / 12 bit
Gain modes	manual, auto
S/N ratio (max)	42.6 dB (dep. on environment)
Dynamic range (max)	65 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 75.9 mm
Weight	380 g
Ambient temperature	-10 to 45 °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]

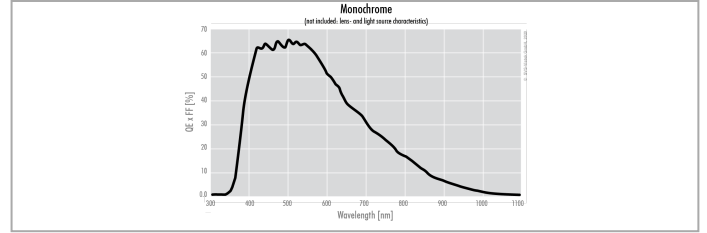


Pinout Mating Connector

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	13 W (dep. on operating mode)



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