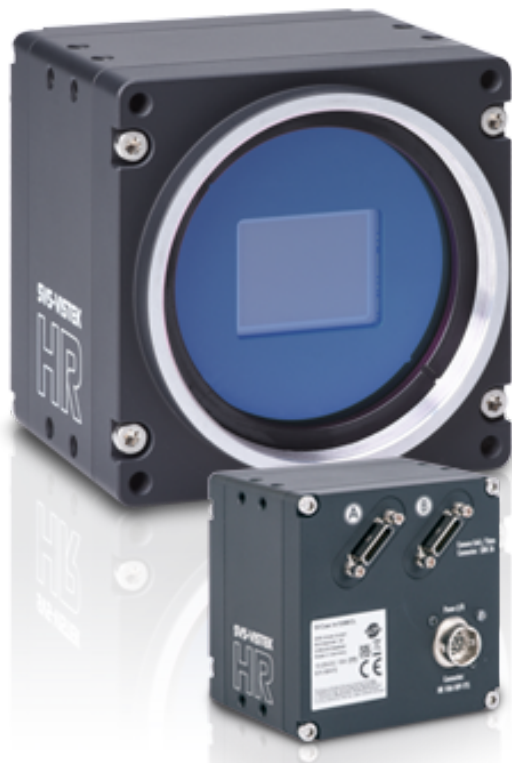


hr120MCL

HR Camera Link



Camera Link has its advantages regarding data transfer speed, a deterministic timing and a very direct access to the imaging sensor itself. Thus it permits settings and operating modes that are not available with other interfaces. HR series with Camera Link provides a wide range of unique camera core features.

A sophisticated I/O interface provides a rich choice of industrial hardware and software features, including a GenICam multi-channel LED strobe control. Best suited for applications such as optical metrology, surface control, quality control or monitoring of large areas.

Technical Highlights

- > User defined defect pixel correction
- > Lens shading correction
- > ROI, LUT, binning, gamma, offset
- > Integrated multi channel LED strobe controller
- > Industrial TTL-24V I/O interface with SafeTrigger, programmable logic functions, sequencer, timer, RS232
- > Power over Camera Link (PoCL)

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

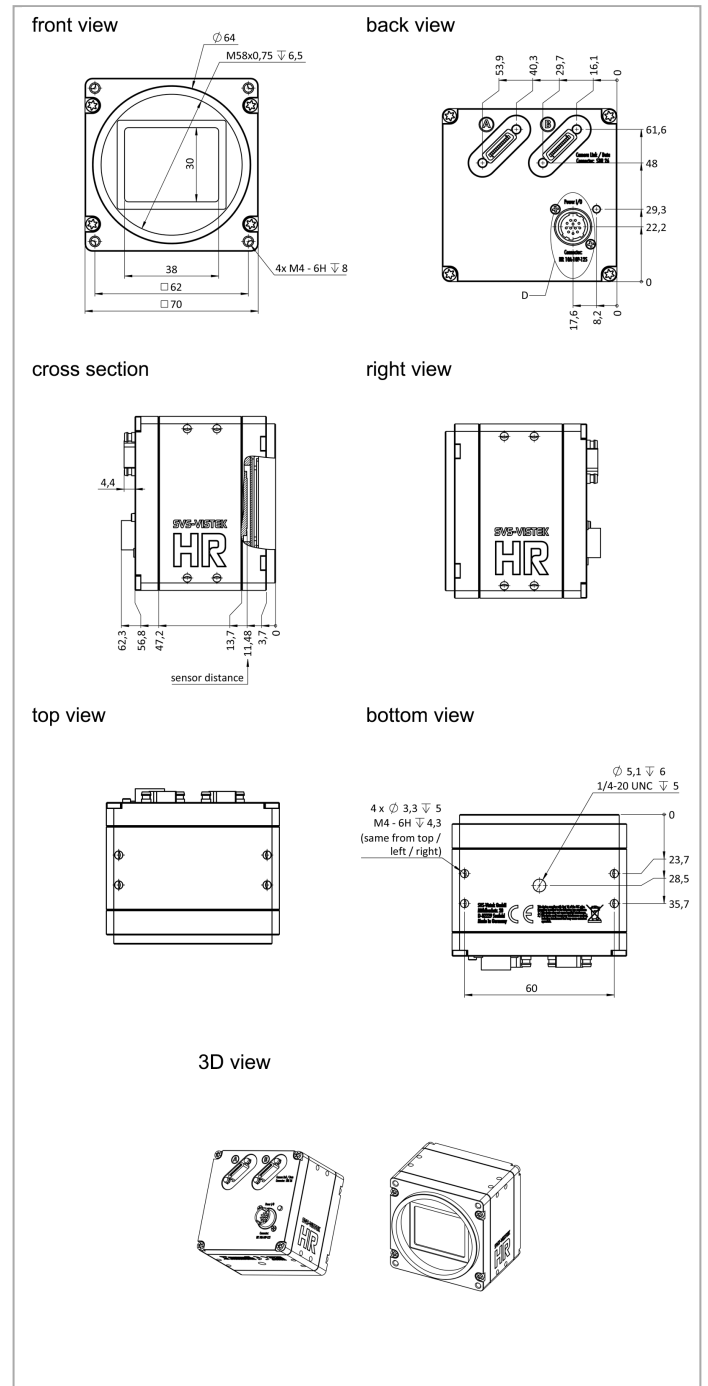
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HR Series

hr120MCL

Resolution [MP]	122 MP
Resolution (h x v)	13272 x 9176 px
Frame rate (max.)	6.8 fps (1x10-1y) 5.5 fps (1x8-1y)
Chroma	mono
Interface	Camera Link 80-Bit
Sensor	
Sensor	120MXSM
Manufacturer	Canon
Sensor type	Area CMOS
Shutter type	rolling shutter
Sensor size (h x v)	29.2 x 20.19 mm
Optical diagonal	35.5 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)	16 μs
Exposure time (max)	1 sec
Pixel format / max	mono8, mono10 / 10 bit
Gain modes / max	manual, auto / 8 dB
S/N ratio (max)	39.6 dB (dep. on environment)
Dynamic range (max)	60.3 dB (dep. on environment)
Pixel clock	85 MHz
Internal memory	512 MB SDRAM, 160 MB Flash
Feature Set	
AOI	yes
LUT	yes
Offset	yes
Binning	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 56.8 mm
Weight	380 g
Operating temperature (housing)	-10 to 55 °C
Ambient humidity	10 to 90 % (non-condensing)
Protection class	IP40
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]

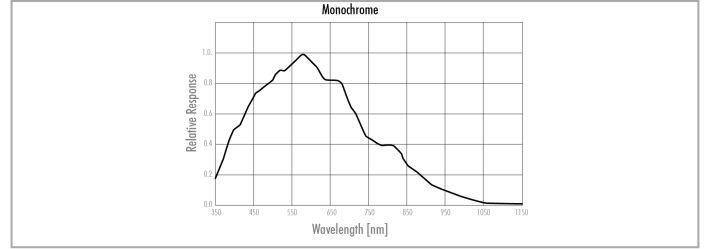


Pinout Mating Connector

Hirose 12 Pin	1	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 *

Power supply	10 to 25 V (DC)
Power consumption	12 W (dep. on operating mode)



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