

shr461CCX

SHR CoaXPress



Highest resolution made in Germany

The SHR series offers low-noise CMOS sensors with large 3.76 pixel and highest resolutions. Excellent pixel homogeneity and linearity comes together with a user defined lens shading correction. Highest precision standards on sensor adjustment in its massive, thermally optimized housing make the SHR the ideal partner for the most demanding optical applications.

The camera comes with an extensive industrial I/O package with galvanic separated input, sequencer and integrated multichannel LED strobe controller.

Technical Highlights

- > Outstanding image quality
- > Excellent image homogeneity
- > User defined lens shading correction
- > User defined pixel correction
- > Safe signal with Schmitt-trigger, debouncer
- > Industrial I/O concept: up to 24 V signal voltage
- > GenICam interface
- > Industrial TTL-24V I/O interface with SafeTrigger, programmable logic functions, sequencer, timer, RS232

CoaXPress specific features

- > Quad CoaXPress-6 (6.25 Gbps each)
- > Power over CoaXPress

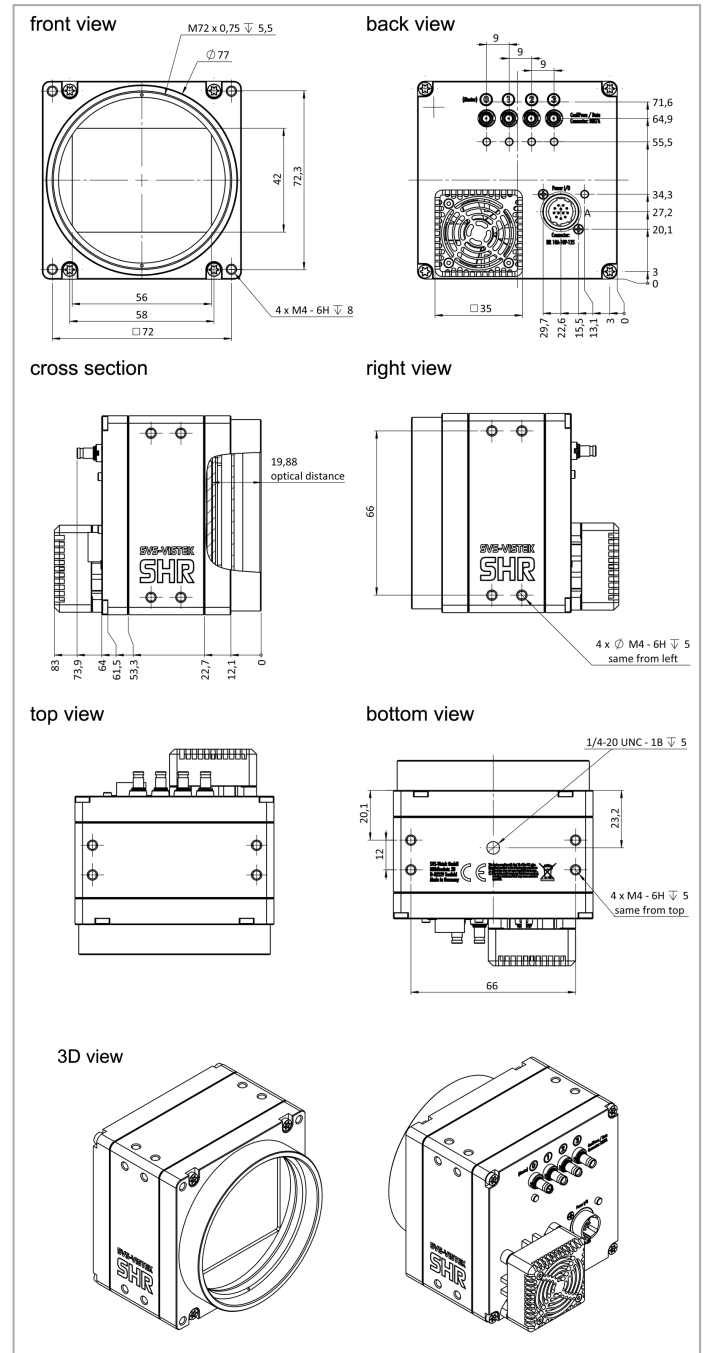
The SHR offers excellent properties for inspection tasks in the wafer, flat panel or solar panel business. The CoaXPress version provides the benefit of long distance data cables.

SHR Series

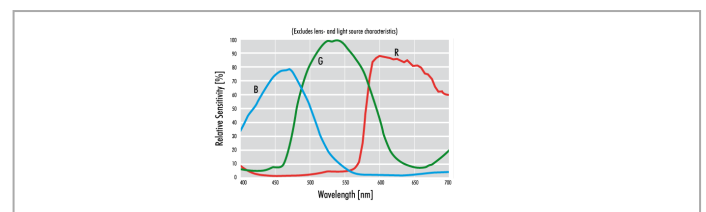
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Resolution	11648 x 8742 px
Frame rate (max.)	8.7 fps
Chroma	color
Interface	CXP-6 4 Lanes
Sensor	
Sensor	IMX461LQA
Manufacturer	Sony
Sensor type	Area CMOS
Shutter type	rolling shutter
Sensor size (h x v)	43.8 x 32.87 mm
Optical diagonal	54.76 mm
Sensor format	55mm (Type 3.4)
Pixel size (h x v)	3.76 x 3.76 μ m
Camera	
Exposure modes	MANUAL;AUTO
Trigger modes	INTERNAL;SOFTWARE;EXTERNAL
Exposure time (min)	60 μ s
Exposure time (max)	1 sec
Pixel format / max	bayer8, bayer10, bayer12, bayer16 / 16 bit
Gain modes / max	manual, auto / 36 dB
Internal memory	512 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
Shading correction	yes (external)
Defect pixel correction	yes
Sequencer	yes
Housing	
Lens mount	M72x0.75
Dimensions (w x h x d)	80 x 80 x 63.6 mm
Weight	600 g
Operating temperature (housing)	-10 to 70 $^{\circ}$ 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	14 W (dep. on operating mode)

Dimensions [mm]



Spectral Response *



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