

shr661MCX12

SHR CoaXPress



Highest resolution made in Germany

The SHR series combines large pixel structures with highest resolutions. The physical characteristics of large pixels guarantee outstanding image quality. High-quality harmonisation of the pixels with defect pixel correction provides a noise-free image. The camera offers the highest structural precision in sensor adjustment in a massive, thermally highly optimised housing. The large M72 lens mount can be adapted to any lens. This makes the SHR the camera for the most demanding optical tasks.

The high-performance CoaXPress interface enables the fastest high-speed data transfer with excellent latency behaviour. The camera is equipped with a comprehensive I/O interface with galvanic interface separation, sequencer and integrated multi-channel LED light control.

Technical Highlights

- > Outstanding image quality
- > High color depth
- > High dynamic range
- > Excellent image homogeneity
- > User defined lens shading correction
- > User defined pixel correction
- > High-speed CXP-6 and CXP-12 quad interfaces
- > 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 or CoaXPress-12
- > 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.

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.

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SHR Series

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Resolution [MP]	127.6 MP
Resolution (h x v)	13392 x 9528 px
Frame rate (max.)	20.3 fps
Chroma	mono
Interface	4 CXP-12 Connections
Sensor	
Sensor	IMX661LLA
Manufacturer	Sony
Sensor type	Area CMOS
Shutter type	global shutter
Sensor size (h x v)	46.2 x 32.87 mm
Optical diagonal	56.7 mm
Sensor format	56.73mm (Type 3.6)
Pixel size (h x v)	3.45 x 3.45 μm

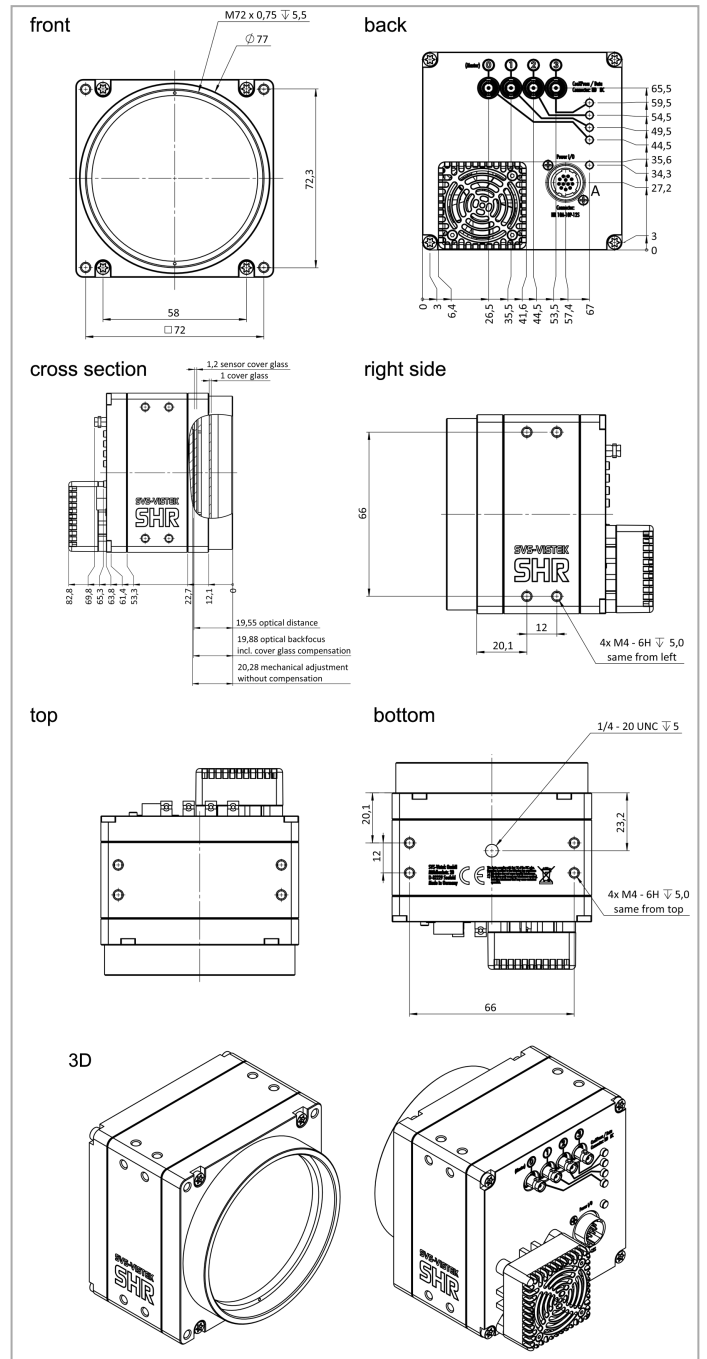
Camera	
Exposure modes	MANUAL;AUTO
Trigger modes	INTERNAL;SOFTWARE;EXTERNAL
Exposure time (min)	163 μs
Exposure time (max)	1 sec
Pixel format / max	mono8, mono12, mono10, mono16 / 16 bit
Gain modes	manual, auto
Internal memory	1024 MB SDRAM, 160 MB Flash

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	M72x0,75
Dimensions (w x h x d)	80 x 80 x 83 mm
Weight	580 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
Power supply	10 to 25 V (DC)

Dimensions [mm]



Pinout Mating Connector

