shr661CCX12

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.

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SHR Series shr661CCX12

Resolution [MP]	127.6 MP
Resolution (h x v)	13392 x 9528 px
Frame rate (max.)	20.3 fps
Chroma	color
Interface	4 CXP-12 Connections

Sensor

Sensor	IMX661LQA
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	bayer8, bayer10, bayer12, bayer16 / 16 bit
Gain modes	manual, auto
Internal memory	1024 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

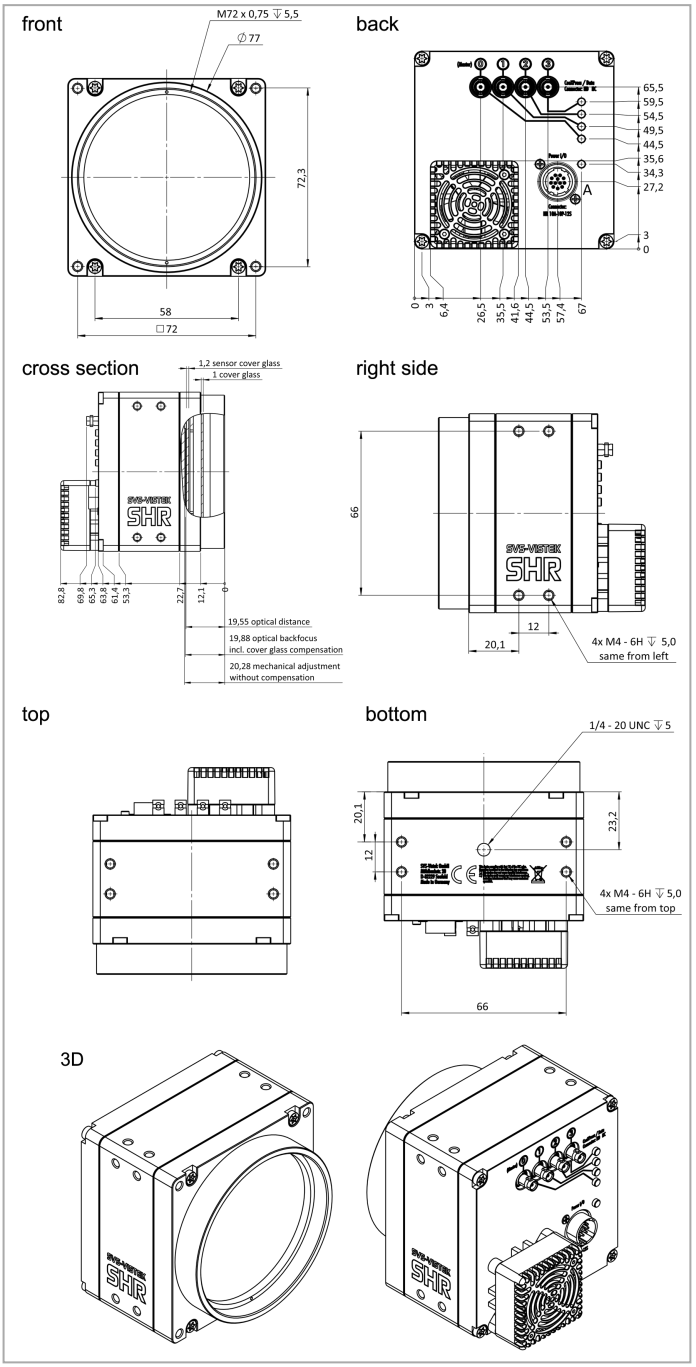
Housing

Lens mount	M72x0,75
Dimensions (w x h x d)	80 x 80 x 83 mm
Weight	580 g
Ambient temperature	-10 to 45 °C
Ambient humidity	10 to 90 % (non-condensing)
Protection class	IP30

I/O-Interfaces

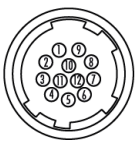
Input up to 24V	2 x
Input OPTO	1 x
Output open drain	4 x
I/O RS-232	1 x

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)

Power supply	10 to 25 V (DC)