

SHR CoaXPress-6

# shr461MCX

- **Highest resolution made in Germany**

The SHR series combines large pixel structures with the highest resolutions. The physical characteristics of large pixels guarantee outstanding image quality. High-quality harmonization 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 optimized 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 behavior. The camera is equipped with a comprehensive I/O interface with galvanic interface separation, sequencer and integrated multichannel LED light control.

The fan can be fully deactivated via software and features a hermetic seal that isolates airflow from internal components, ensuring compatibility with critical cleanroom environments. Optional heatsinks help keep your camera in optimal operating conditions.

## Technical Highlights

- Outstanding image quality
- High dynamic range
- Excellent harmonization of the pixels
- CMOS sensors with rolling and global shutter
- User-defined lens shading correction
- Signal security through Schmitt trigger, debouncer
- Industrial I/O concept: up to 24 V signal voltage, RS232, galvanically isolated input
- Integrated multichannel LED strobe controller
- Sequencer - up to 16 intervals
- GenICam interface
- Ideal for cleanrooms

### CoaXPress specific features

- Quad CoaXPress-6
- Power over CoaXPress



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The SHR is ideal for inspecting larger areas, in the CoaXPress version also with long data lines. Ideal for wafer, solar panel and display inspection applications.

## Specifications

Resolution [MP]	101.8 MP
Resolution (h x v)	11648 x 8742 px
Frame rate (max.)	8.7 fps
Chroma	mono
Interface	CXP-6 with 4 Connections (Din1.0/2.3)

## Sensor

Sensor	IMX461LLA
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 $\mu$ m

## Camera

Exposure modes	MANUAL;AUTO
Trigger modes	INTERNAL;SOFTWARE;EXTERNAL
Exposure time (min)	60 $\mu$ s
Exposure time (max)	60 sec
Pixel format / max	mono8, mono10, mono12, mono16 / 16 bit
Gain modes / max	manual, auto / 36 dB
S/N ratio (max)	46.8 dB (dep. on environment)
Dynamic range (max)	81.3 dB (dep. on environment)
Internal memory	512 MB SDRAM, 160 MB Flash

## Feature Set

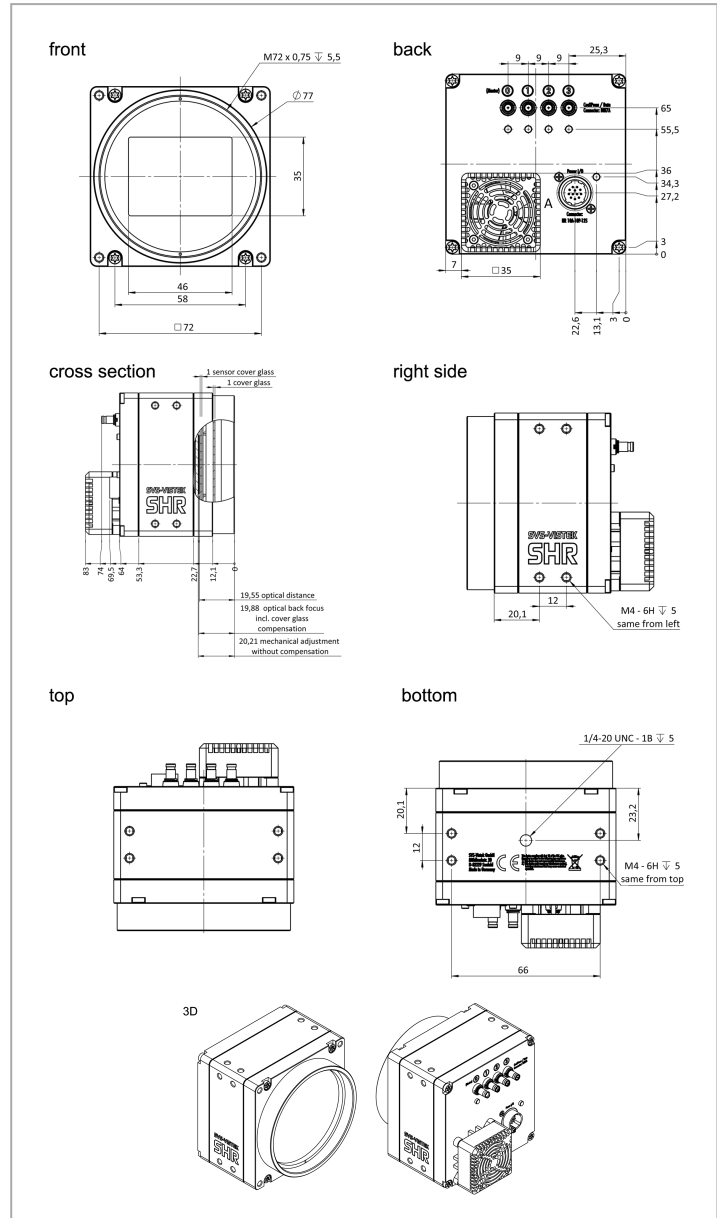
AOI	yes
LUT	yes
Offset	yes
Binning	yes
Image flip	yes
Shading correction	yes (external)
Defect pixel correction	yes
Sequencer	yes
PoCXP	yes

## Housing

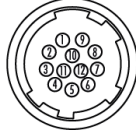
Lens mount	M72x0.75
Dimensions (w x h x d)	80 x 80 x 83 mm
Weight	580 g
Operating temperature (housing)	-10 to 70 °C
Ambient humidity	10 to 90 % (non-condensing)
Protection class	IP30
Filter-/Coverglass	Borofloat B270i - AR coating

## I/O-Interfaces

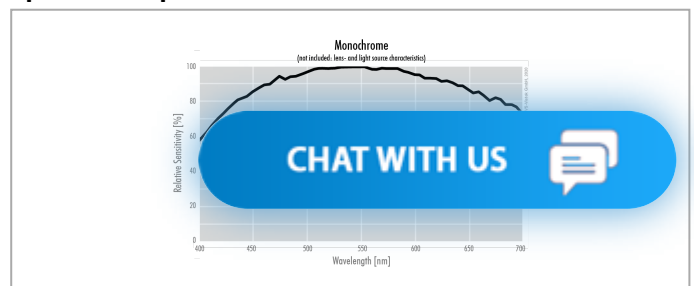
Input up to 24V	2 x
Input OPTO	1 x
Output open drain	4 x
I/O RS-232	1 x
Power supply	10 to 25 V (DC)
Power consumption	14 W (dep. on operating mode)



## 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 \*



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

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