

shr461MCX

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 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
- > GenlCam 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.

SHR Series

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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

361301		
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 µm	

Camera

Exposure modes	MANUAL;AUTO	
Trigger modes	INTERNAL;SOFTWARE;EXTERNAL	
Exposure time (min)	60 µs	
Exposure time (max)	1 sec	
Pixel format / max	mono8, mono10, mono12, mono16 / 16 bit	
Gain modes / max	manual, auto / 36 dB	
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	

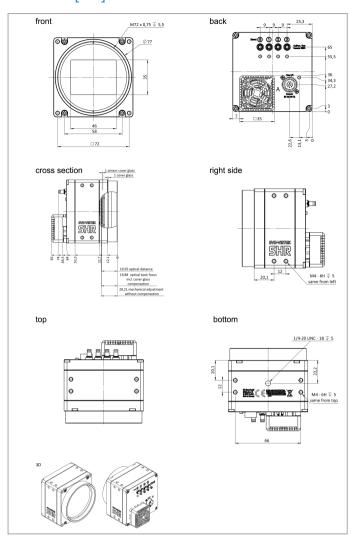
Housing

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

I/ O-IIIIeIIuCes		
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)	

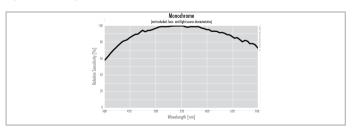
Dimensions [mm]



Pinout Mating Connector



Spectral Response *



 $^{^{\}star}$ Sensor data - excludes camera cover- or IR-cut filter characteristics