

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 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 TL-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

shr661MCX12

Resolution [MP]	127.6 MP		
Resolution (h x v)	13392 х 9528 рх		
Frame rate (max.)	20.3 fps		
Chroma	mono		
Interface	CXP-12 with 4 Connections		
	(micro-BNC)		

Sensor

IMX661LLA	
Sony	
Area CMOS	
global shutter	
46.2 x 32.87 mm	
56.7 mm	
56.73mm (Type 3.6)	
3.45 x 3.45 µm	
	Sony Area CMOS global shutter 46.2 x 32.87 mm 56.7 mm 56.73mm (Type 3.6)

Camera

Exposure modes	MANUAL;AUTO	
Trigger modes	INTERNAL;SOFTWARE;EXTERNAL	
Exposure time (min)	114 µs	
Exposure time (max)	1 sec	
Pixel format / max	mono8, mono10,mono12, 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
PoCXP	yes

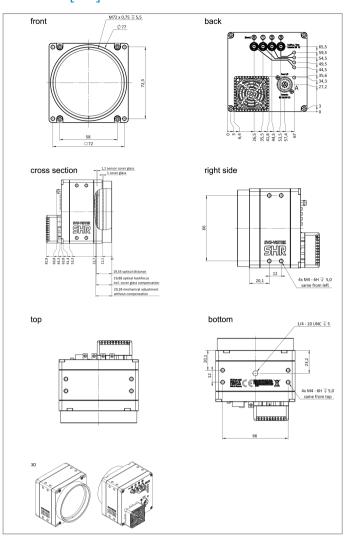
Housing

M72x0,75	
80 x 80 x 83 mm	
580 g	
-10 to 45 °C	
10 to 90 % (non-condensing)	
IP30	
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	16 W (dep. on operating mode)	

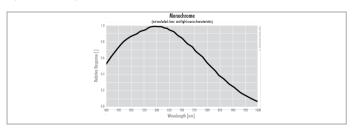
Dimensions [mm]



Pinout Mating Connector



Spectral Response *



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