

shr461MXGE

SHR 10GigE



The high resolution SHR series offers outstanding image quality. This is made possible by the excellent physical characteristics of large pixels in large format sensors. The thermally highly optimized housing guarantees highest optical precision. The large M72 lens mount can be adapted to any lens.

The economical and high-performance 10 GigE interface offers high data transfer speeds of up to 1.1 GB/s for these large images. A special frame grabber is not required.

Technical Highlights

- > User defined shading correction
- > Automatic and user defined pixel correction
- > High color depth
- > Extremely low noise
- > Excellent dynamic range
- > high performance 10GigE interface
- > Integrated 4-channel LED strobe controller
- > Industrial TTL-24V I/O Interface with SafeTrigger, programmable logic functions, sequencers and timers, RS232

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Information accurate as to: 16.11.2022, errors and omissions excepted.

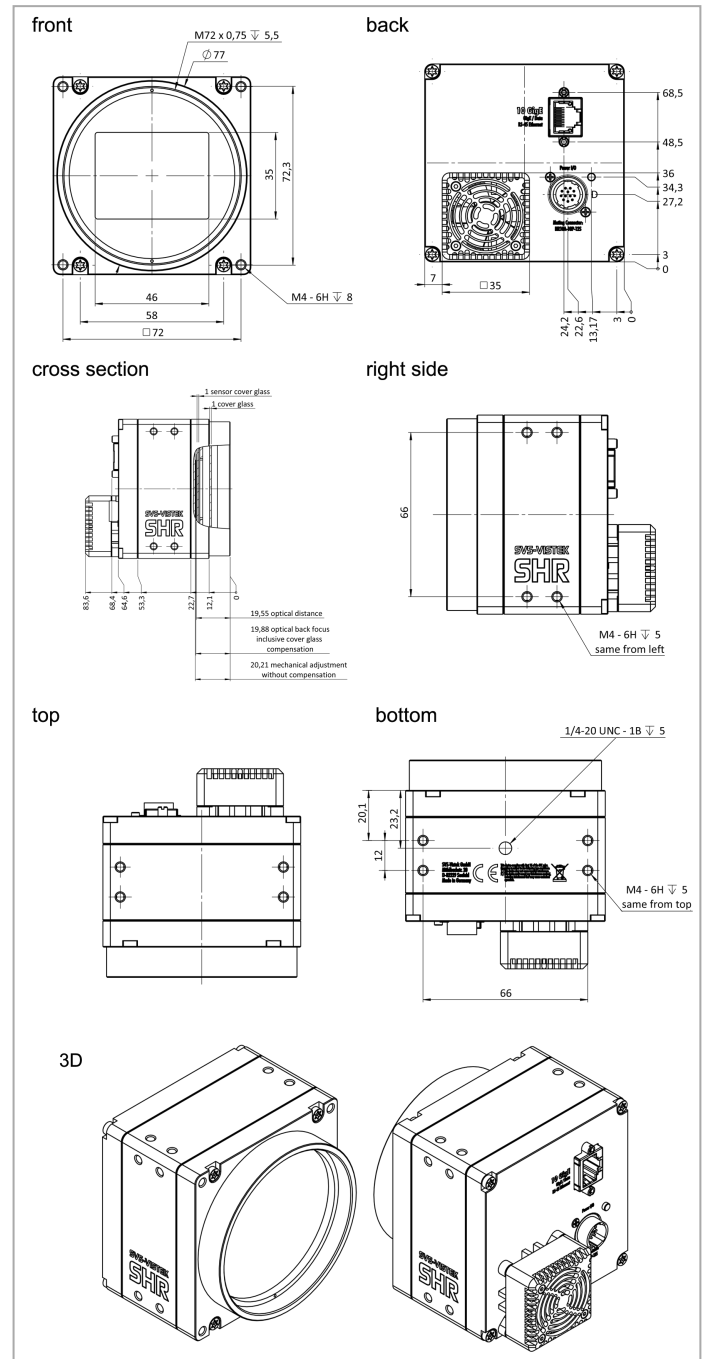
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SHR Series

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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	10GigE
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 μm
Camera	
Exposure modes	MANUAL;AUTO;EXTERNAL
Trigger modes	INTERNAL;SOFTWARE;EXTERNAL
Exposure time (min)	60 μs
Exposure time (max)	1 sec (external ∞)
Pixel format / max	mono8, mono12, mono16 / 16 bit
Gain modes / max	manual, auto / 36 dB
Internal memory	512 MB SDRAM
Feature Set	
LUT	yes
Offset	yes
Binning	yes
Image flip	yes
Shading correction	yes (external)
Defect pixel correction	yes
Sequencer	yes
POE	yes (POE+)(optional)
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)
Power consumption	17 W (dep. on operating mode)

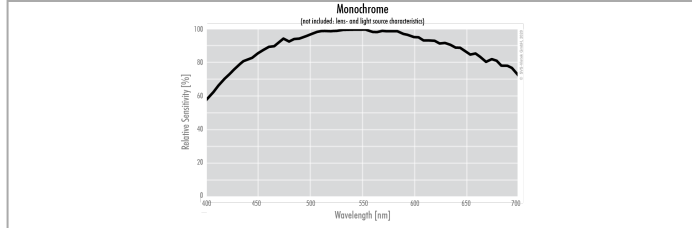
Dimensions [mm]



Pinout Mating Connector

	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