

# hr65CXGE

HR 10 GigE



The HR 10 GigE series with its high-end high-resolution CCD and CMOS sensors permits making full use of the sensor bandwidth. 10 GigE delivers up to 1.1 GB/s of image data with distances up to 100m .

The clean design according to well established standards like GigE Vision, 10 GigE Vision and GenICam ensure rapid integration into the final application. The camera features a rich choice of industrial hardware and software features. Burst mode enables even higher trigger frequencies.

Best suited for applications such as optical metrology, surface control, quality control or monitoring of large areas.

## Technical Highlights

- > Defect pixel correction, lens shading correction
- > ROI, LUT, binning, gamma, offset, autoexposure
- > GenICam interface with GenTL driver
- > Integrated multi channel LED strobe controller
- > POE (Power Over Ethernet) single cable option
- > Industrial TTL-24V I/O interface with SafeTrigger, programmable logic functions, sequencer and timer, RS232
- > M58 lens interface (F-Mount optional)

SVS-Vistek GmbH - Ferdinand-Porsche-Str. 3 - 82205 Gilching - Germany - Telephone +49 8105 3987-60

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## HR Series

## hr65CXGE

Resolution [MP]	65 MP
Resolution (h x v)	9344 x 7000 px
Frame rate (max.)	17.4 fps
Chroma	color
Interface	10GigE

### Sensor

Sensor	GMAX3265-BVC
Manufacturer	Gpixel
Sensor type	Area CMOS
Shutter type	global shutter
Sensor size (h x v)	29.9 x 22.4 mm
Optical diagonal	37.36 mm
Sensor format	37.4mm
Pixel size (h x v)	3.2 x 3.2 $\mu\text{m}$

### Camera

Exposure modes	MANUAL;AUTO
Trigger modes	INTERNAL;SOFTWARE;EXTERNAL
Exposure time (min)	62 $\mu\text{s}$
Exposure time (max)	1 sec
Pixel format / max	bayer8, bayer12 / 12 bit
Gain modes	manual, auto
S/N ratio (max)	40 dB (dep. on environment)
Dynamic range (max)	65.6 dB (dep. on environment)
Internal memory	512 MB SDRAM, 32 MB Flash

### Feature Set

Manual white balance	yes
Automatic white balance	yes
AOI	yes
LUT	yes
Offset	yes
Binning	yes
Image flip	yes
Sequencer	yes
POE	yes (POE+)(optional)

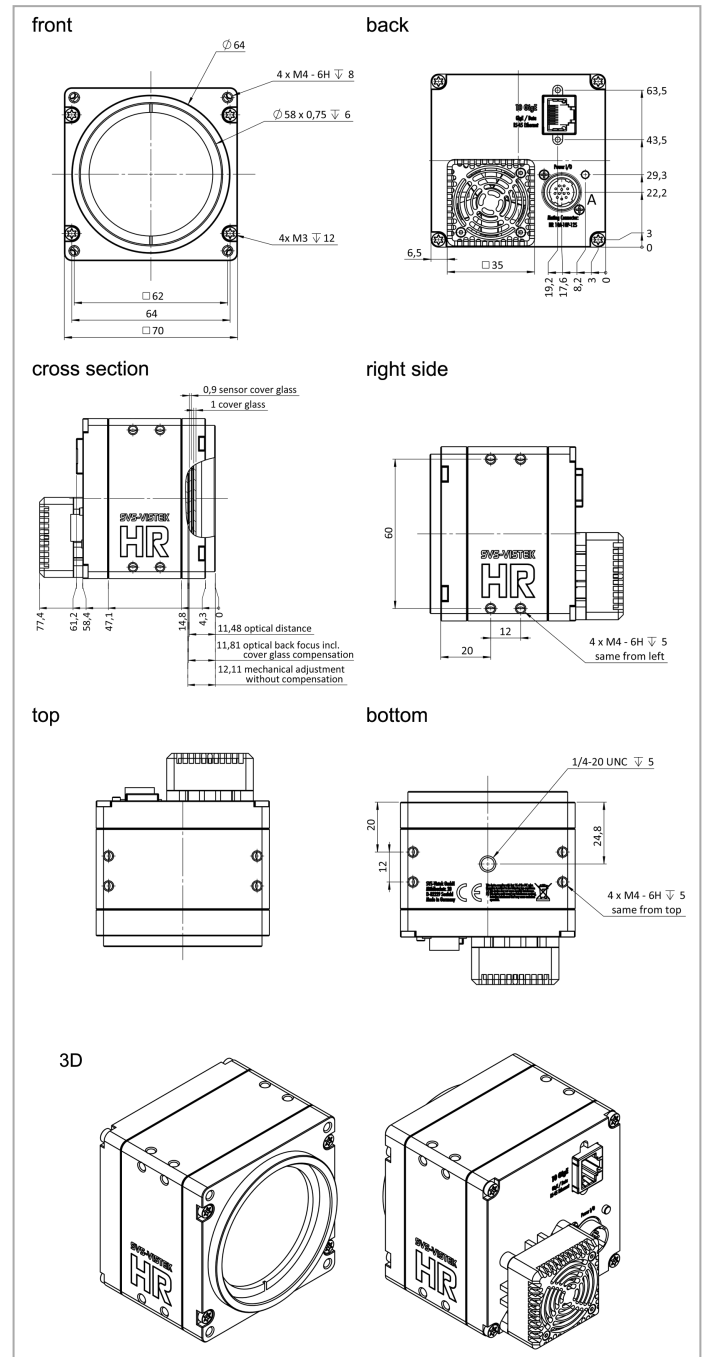
### Housing

Lens mount	M58x0.75
Dimensions (w x h x d)	70 x 70 x 75.9 mm
Weight	420 g
Operating temperature (housing)	-10 to 65 °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

## Dimensions [mm]



## Pinout Mating Connector

Hirose 12 Pin	1	2	3	4	5	6	7	8	9	10	11	12
	VIN - (GND)	VIN + (10 V to 25 V DC)	IN 4 (RXD RS232)	OUT 4 (TXD RS232)	IN 1 (0-24V)	IN 2 (0-24V)	OUT 1 (open drain)	OUT 2 (open drain)	IN 3 + (opto In +)	IN 3 - (opto In -)	OUT 3 (open drain)	OUT 0 (open drain)

## Spectral Response \*

I/O RS-232

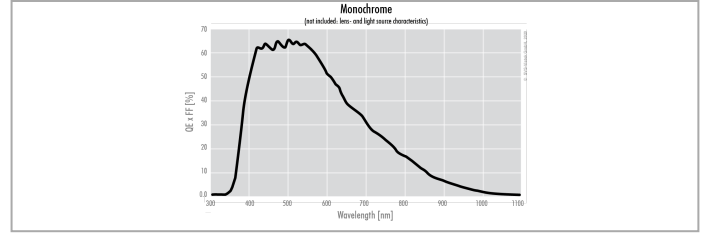
1 x

Power supply

10 to 25 V (DC)

Power consumption

15 W (dep. on operating mode)



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