



hr342CXGE

HR 10 GigE



The HR 10GigE series with its high-end high-resolution CCD and CMOS sensors permits making full use of the sensor bandwidth. 10GigE 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, 10GigE 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, auto exposure
- > GenICam interface with GenTL driver
- > Integrated multichannel 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)

HR Series

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Resolution [MP]	31.4 MP
Resolution (h x v)	6464 x 4852 px
Frame rate (max.)	35.4 fps
Chroma	color
Interface	10GigE (RJ-45)

Sensor

Sensor	IMX342LQA
Manufacturer	Sony
Sensor type	Area CMOS
Shutter type	global shutter
Sensor size (h x v)	22.3 x 16.74 mm
Optical diagonal	27.88 mm
Sensor format	27.9mm (APS-C)
Pixel size (h x v)	3.45 x 3.45 μ m

Camera

Exposure modes	MANUAL;AUTO;EXTERNAL
Trigger modes	INTERNAL;SOFTWARE;EXTERNAL
Exposure time (min)	19 μ s
Exposure time (max)	10 sec (external ∞)
Pixel format / max	bayer8, bayer12 / 12 bit
Gain modes / max	manual, auto / 48 dB
S/N ratio (max)	39.9 dB (dep. on environment)
Dynamic range (max)	70.5 dB (dep. on environment)
Internal memory	512 MB SDRAM, 32 MB Flash

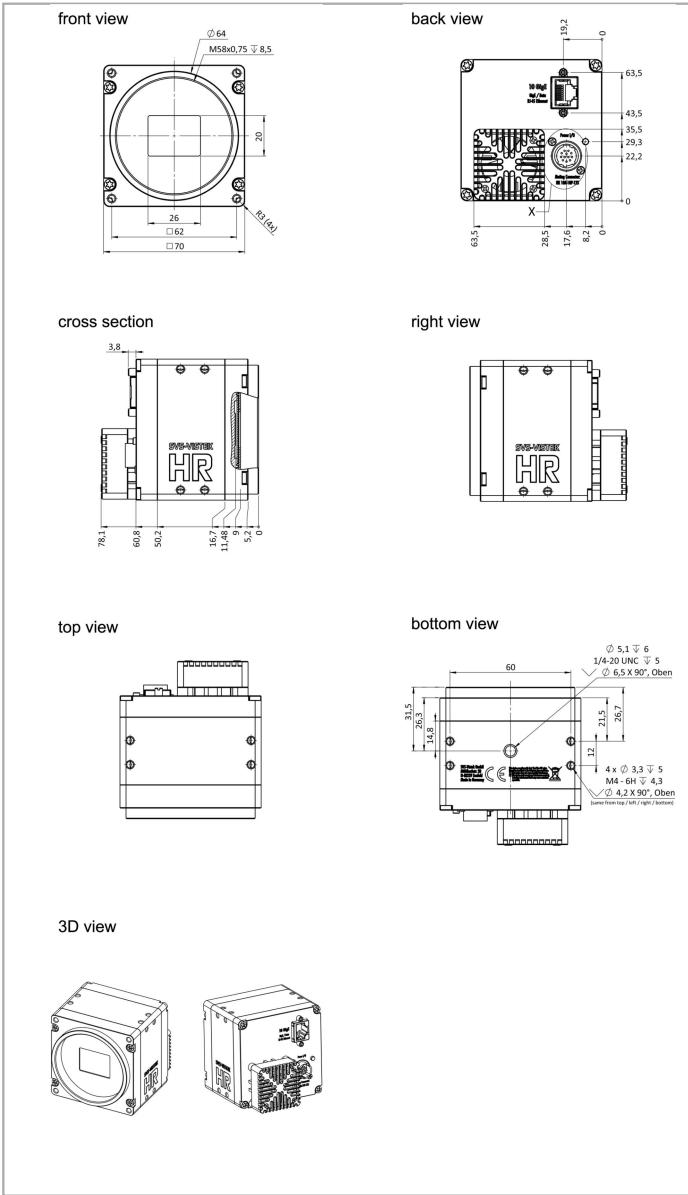
Feature Set

Manual white balance	yes
Automatic white balance	yes
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	M58x0.75
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Dimensions [mm]



Pinout Mating Connector

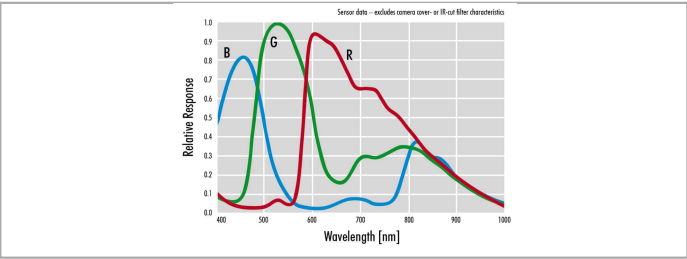
Dimensions (w x h x d)	70 x 70 x 79.8 mm
Weight	400 g
Ambient temperature	-10 to 45 °C
Protection class	IP30
Filter-/Coverglass	N-BK7 - AR coating

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	1.6 W (dep. on operating mode)

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