![Allied Vision logo]

HR 10GigE
hr342CXGE

General

Model:	hr342CXGE
Product code:	F004071
Product series:	HR 10GigE
Status:	Available

Sensor

Sensor type:	Area scan
Chroma:	Color
Spectrum:	Visible
Spectral range:	400 nm to 1000 nm
Resolution:	6,464 × 4,852 (31.40 MP)
Sensor model:	Sony IMX342
Sensor architecture (material):	cmos
Shutter type(s):	global-shutter
Sensor size:	22.3 × 16.74 mm (27.88 mm, 27.9mm (APS-C))
Pixel size:	3.45 µm × 3.45 µm

Pixel formats

Sensor bit depth:	8-Bit,12-Bit
RGB pixel formats:	bayer8, bayer12

Imaging performance

Dynamic range:	70.5 dB
SNR:	39.9 dB

Timing and gain

Max. frame rate:	35.4 fps
Exposure time:	19 µs to 60 s
Gain:	0.0 dB to 48.0 dB

I/Os and power

Non-isolated lines:	0 x LVDS input, 0 x LVDS output, 0 x TTL input, 0 x TTL output, 2 x 24V input, 4 x Open drain output,
Specific non-isolated lines:	1 x RS232 input, 1 x RS232 output, 0 x RS422 input, 0 x RS422 output,
Opto-isolated lines:	1 x Optical isolated input, 0 x Optical isolated input,
Power supply:	10 to 25VDC, Power over Ethernet (POE+, in option -P)
Power consumption:	External: 16 W (typical)

Mechanical properties

Body dimensions (L x W x H in mm):	80 × 70 × 70
Filter/protection glass:	N-BK7 - AR coating
IP class:	IP30
Lens mount(s):	M58x0.75
Weight:	400 g

On-board memory and FPGA

Image buffer (RAM):	448 MByte
Non-volatile memory (Flash):	32 MByte

Interfaces

Digital interface:	10gige
Interface connector:	(RJ-45)

FW features - image control

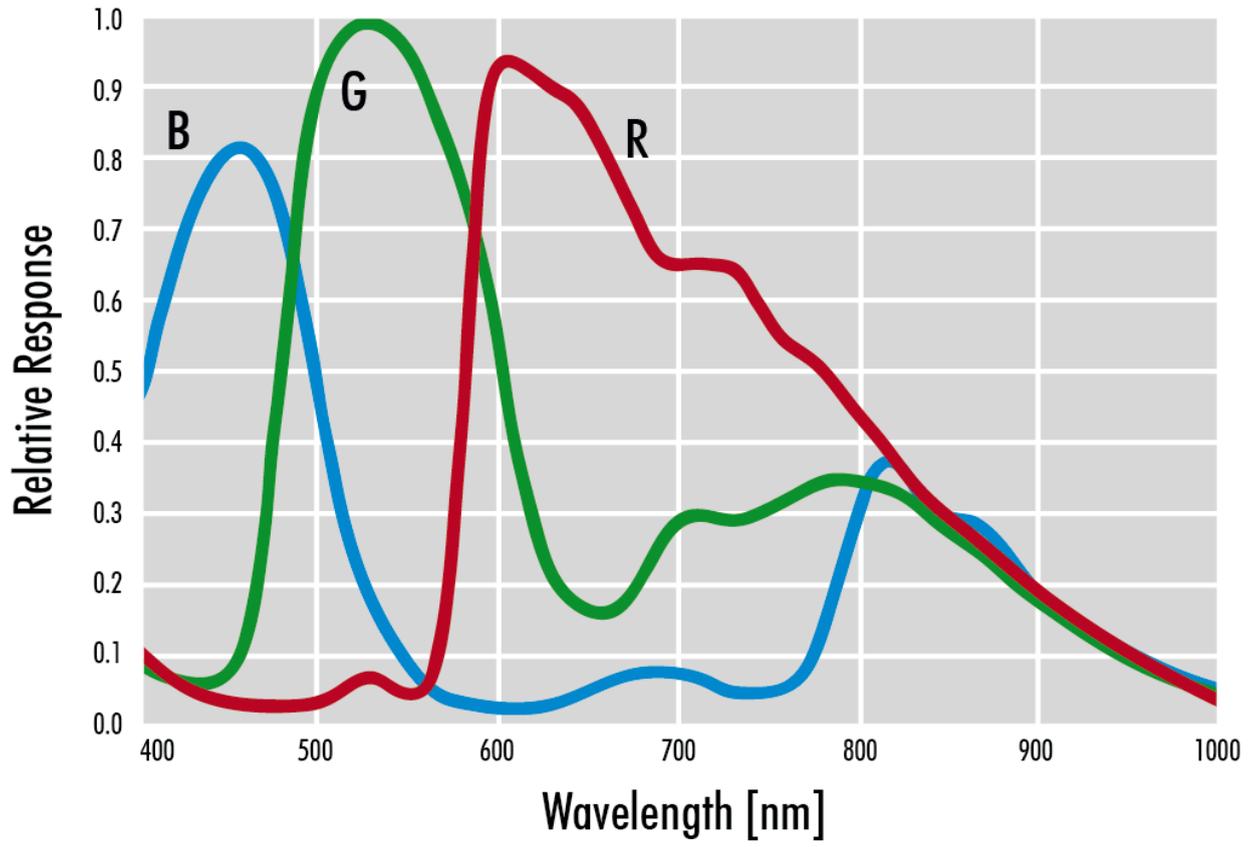|	
Exposure modes:	Manual, Auto, External
Gain modes:	Auto, Manual
White balance modes:	auto, manual
Image control features:	FW Features - Image Control

FW features - camera control
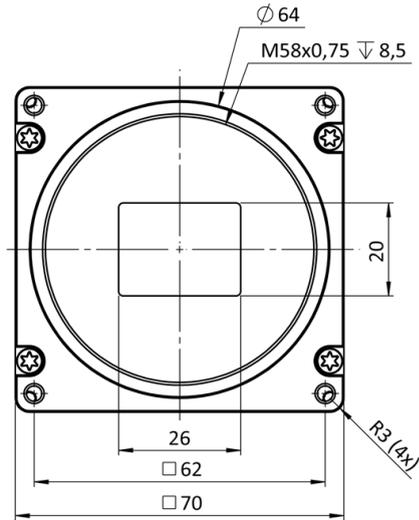
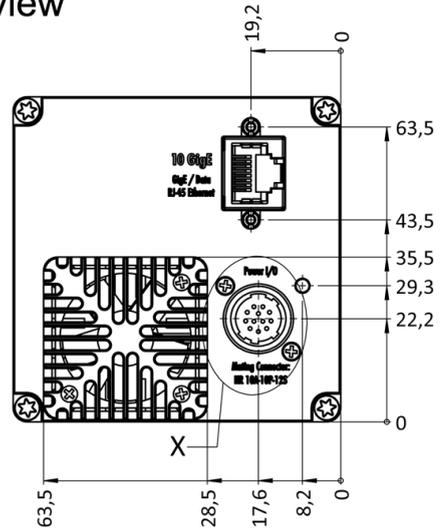|	
Trigger modes/sync:	INTERNAL,SOFTWARE,EXTERNAL
Camera control features:	User Sets, POE, PWM(4), Sequencer,

Sensor data – excludes camera cover- or IR-cut filter characteristics

front view
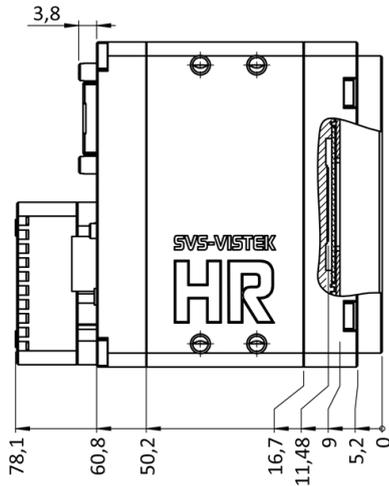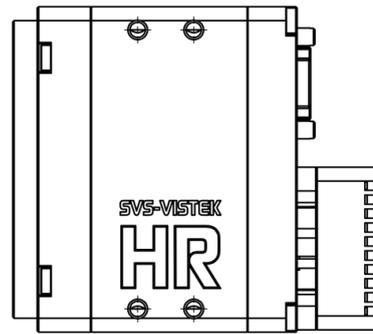
Ø 64
M58x0,75 ⤓ 8,5

20
26
☐ 62
☐ 70
R3 (4x)

back view

19,2
0
63,5
43,5
35,5
29,3
22,2
0

10 GigE
GigE / Data
RJ-45 Ethernet

Power I/O

Analog Connector:
HR 10A-10P-12S

X

63,5
28,5
17,6
8,2
0

cross section

3,8

SVS-VISTEK
HR

78,1
60,8
50,2
16,7
11,48
9
5,2
0

right view

SVS-VISTEK
HR

top view

bottom view

Ø 5,1 ⤓ 6
1/4-20 UNC ⤓ 5
Ø 6,5 X 90°, Oben

60

31,5
26,3
14,8

21,5
26,7

12

SVS-Hawk GmbH

CE

4 x Ø 3,3 ⤓ 5
M4 - 6H ⤓ 4,3
Ø 4,2 X 90°, Oben
(same from top / left / right / bottom)
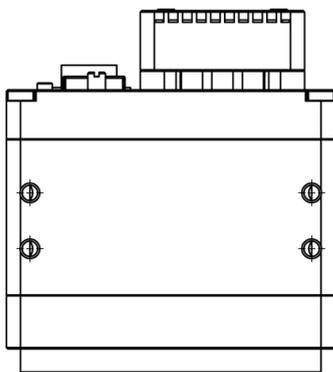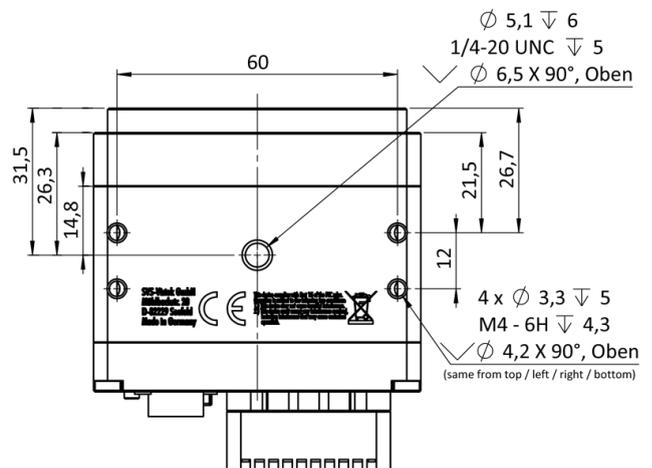
3D view
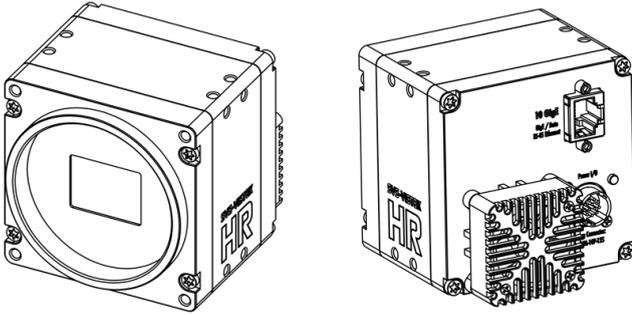
I/O pin assignment

Hirose 12 Pin

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