Allied Vision



HR 10GigE

hr65CXGE-G2

General

Model	hr65CXGE-G2
Product code	F004148
Product series	HR 10GigE
Status	Deleted

Sensor

Sensor type	Area scan
Chroma	Color
Spectrum	Visible
Spectral range	400 nm to 1000 nm
Resolution	9,344 × 7,000 (65.00 MP)
Sensor model	Gpixel GMAX3265
Sensor architecture (material)	cmos
Shutter type(s)	Global shutter (GS)
Sensor size	29.9 × 22.4 mm (37.36 mm, Type 2.3)
Pixel size	3.20 µm × 3.20 µm

Pixel formats

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

Imaging performance

Dynamic range	65.6 dB
SNR	40 dB

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Timing and gain

Max. frame rate	17.4 fps
Exposure time	22 µs to 60 s
Gain	0.0 dB to 18.0 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,
I/O connector	12-pin Hirose HR10A-10P-12S
Power supply	10 to 25VDC, Power over Ethernet (POE+, in option -P)
Power consumption	External: 15 W (typical)

Operating conditions

Operating temperature (housing)	-10 °C to 65 °C

Mechanical properties

Body dimensions (L x W x H in mm)	76 × 70 × 70
Filter/protection glass	IR-Cut 680
IP class	IP30
Lens mount(s)	M58x0.75
Weight	420 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)
Vision standard	GigE Vision 2.0

FW features - image control

Exposure modes	manual, auto

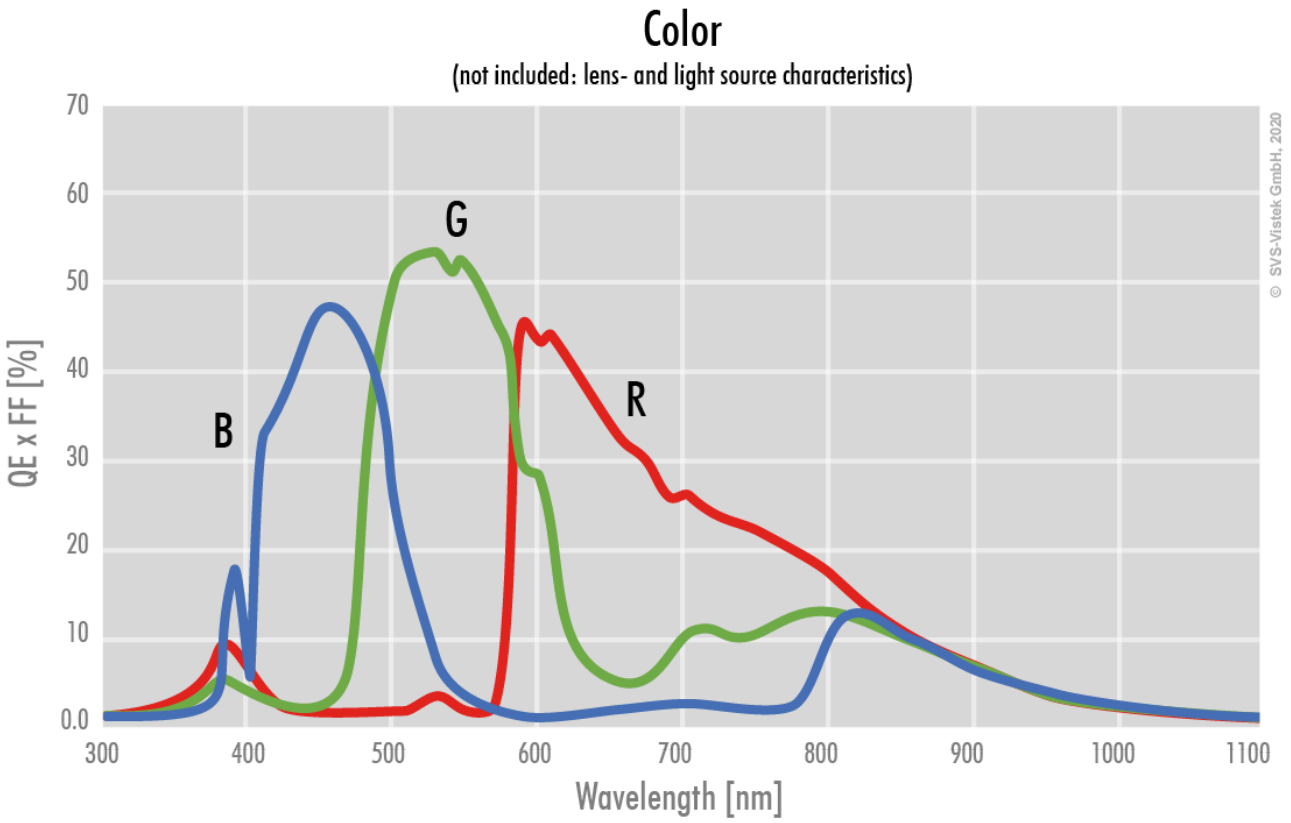
FW features - image control

Gain modes	auto, manual
White balance modes	auto, manual
Image control features	roi, lut, mirror-image

FW features - camera control

Trigger modes/sync	internal, software, external
Camera control features	User Sets, POE, PWM(4), Sequencer,

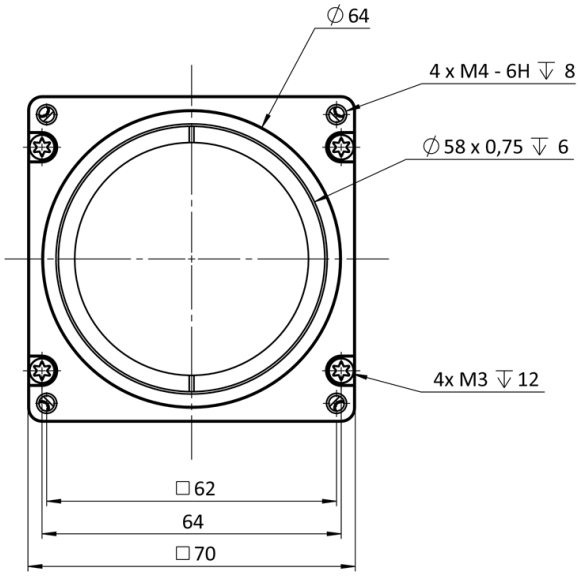
Quantum Efficiency



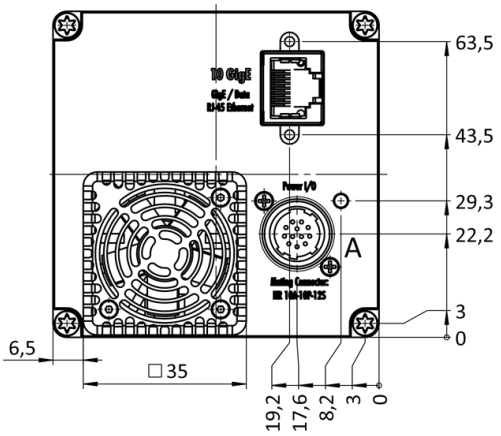
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Technical Drawing

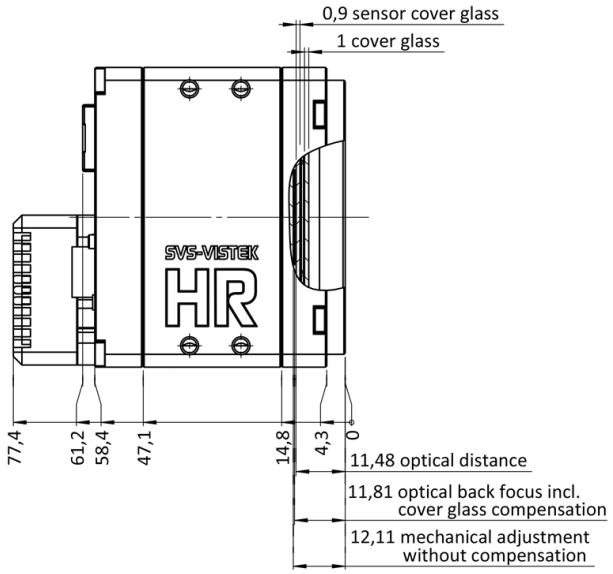
front



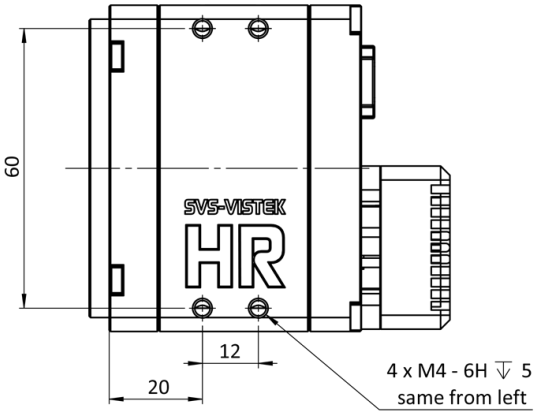
back



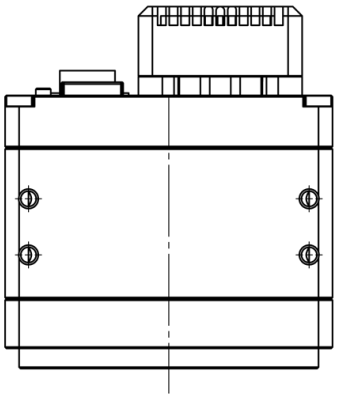
cross section



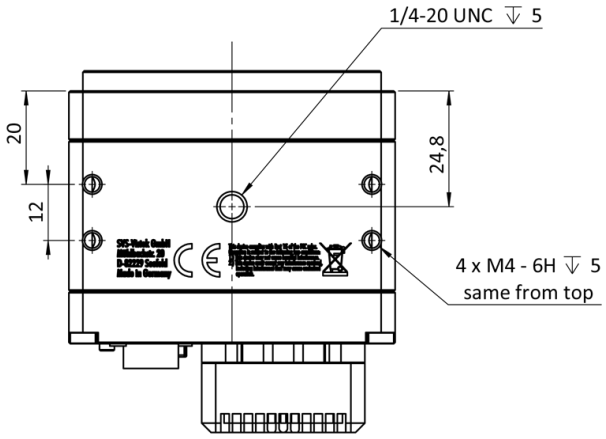
right side



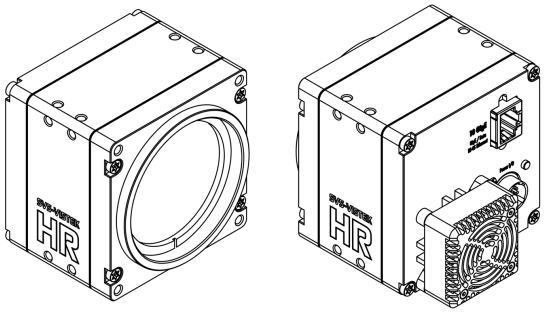
top



bottom

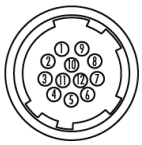


3D



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)