



HR 10GigE

hr65CXGE

General

Model	hr65CXGE
Product code	F004122
Product series	HR 10GigE
Status	Available

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
Sensor size	29.9 × 22.4 mm (37.36 mm, 37.4mm)
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

Timing and gain

Max. frame rate	17.4 fps
Exposure time	62 μ s 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,
Power supply	10 to 25VDC, Power over Ethernet (POE+, in option -P)
Power consumption	External: 14 W (typical)

Operating conditions

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

Body dimensions (L x W x H in mm)	76 x 70 x 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)

FW features - image control

Exposure modes	Manual, Auto, External
Gain modes	Auto, Manual
White balance modes	auto, manual

FW features - image control

Image control features

FW Features - Image Control

FW features - camera control

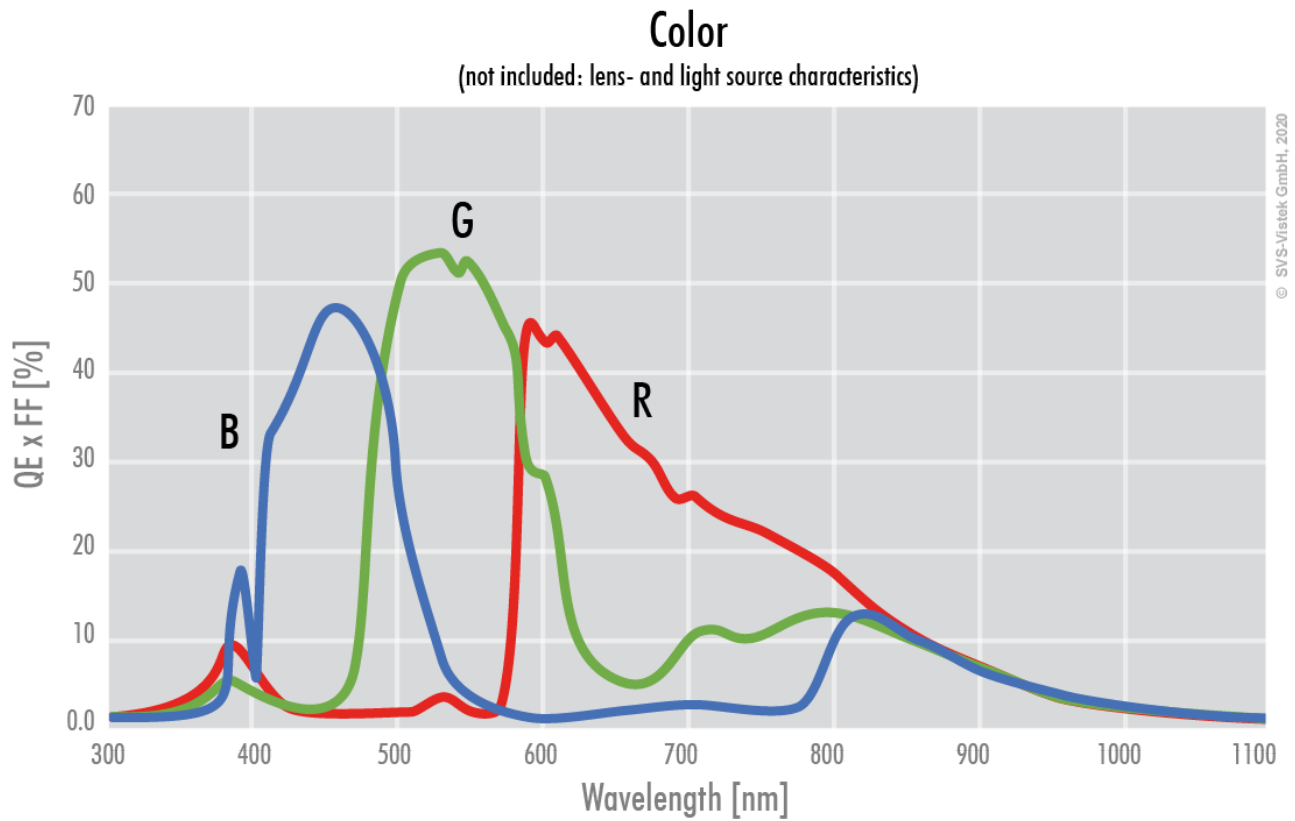
Trigger modes/sync

INTERNAL,SOFTWARE,EXTERNAL

Camera control features

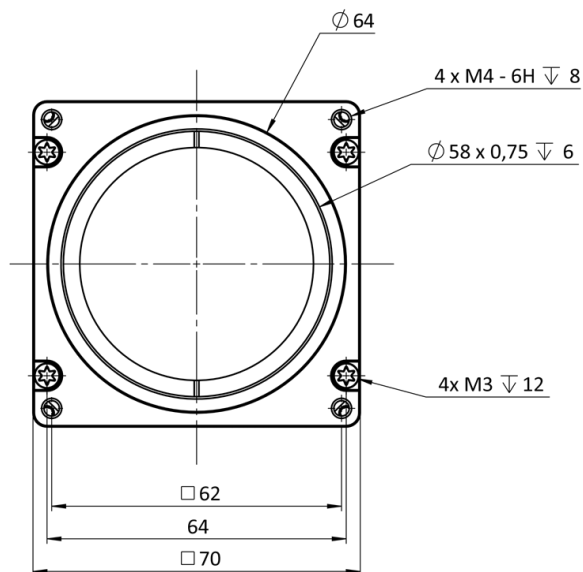
User Sets, POE, PWM(4), Sequencer,

Quantum Efficiency

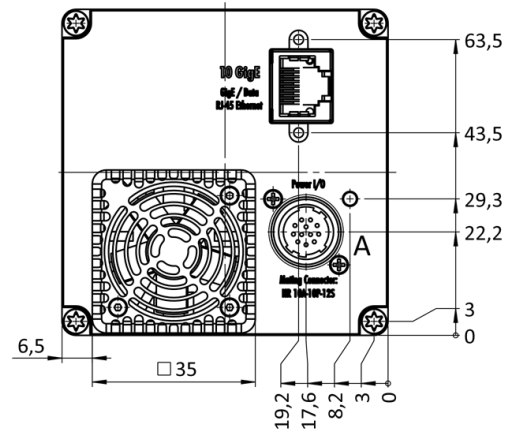


Technical Drawing

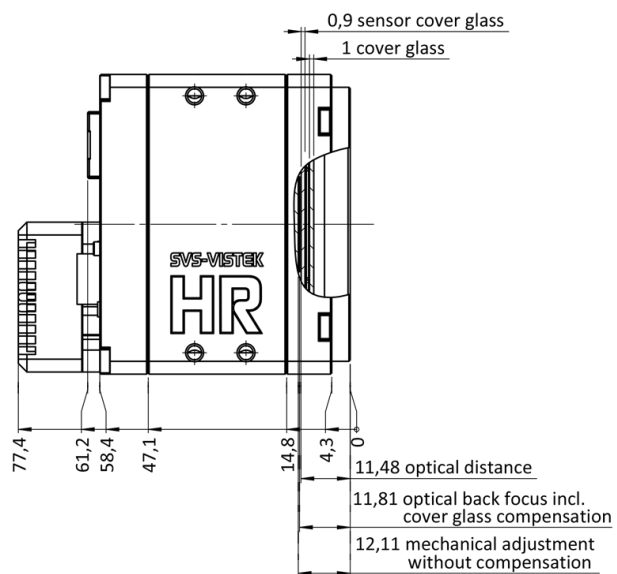
front



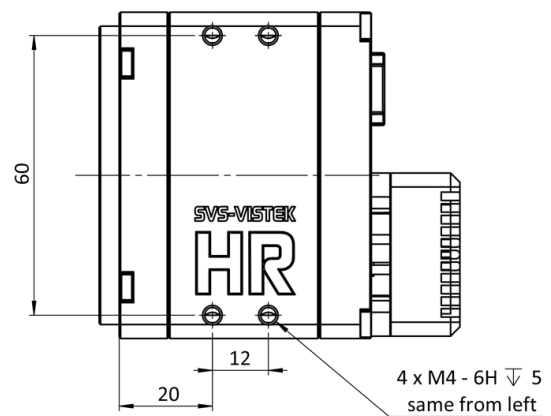
back



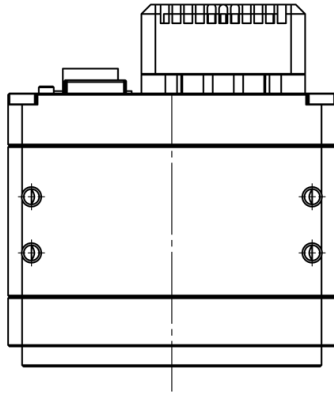
cross section



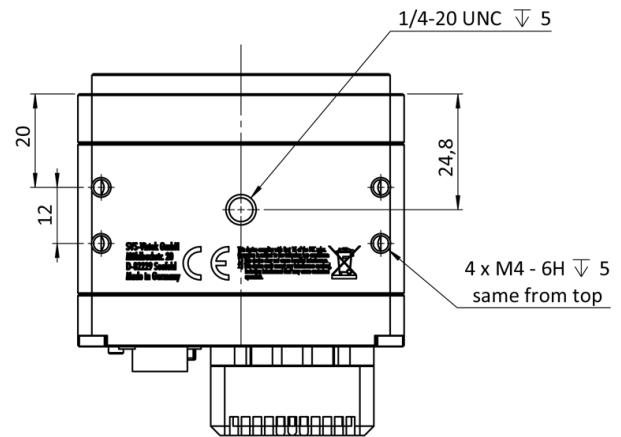
right side



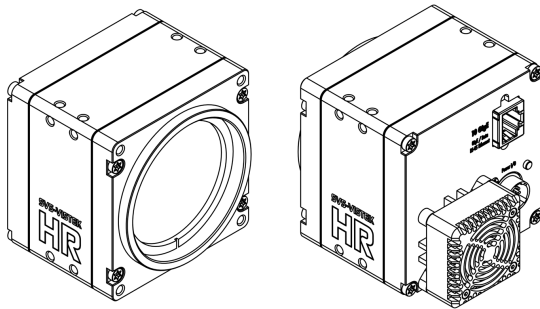
top



bottom



3D



I/O pin assignment

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)