Allied Vision



HR 10GigE

hr51CXGE-G2

General

Model	hr51CXGE-G2
Product code	F004154
Product series	HR 10GigE
Status	Deleted

Sensor

Sensor type	Area scan
Chroma	Color
Spectrum	Visible
Spectral range	400 nm to 1000 nm
Resolution	8,424 × 6,032 (51.00 MP)
Sensor model	Gpixel GMAX4651-BVC-BU2
Sensor architecture (material)	cmos
Shutter type(s)	Global shutter (GS)
Sensor size	38.75 × 27.75 mm (47.66 mm, 35mm Full Frame)
Pixel size	4.60 µm × 4.60 µm

Pixel formats

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

Imaging performance

Dynamic range	65 dB
SNR	42.6 dB

Timing and gain

Max. frame rate	23.7 fps
Exposure time	60 µs (max)
Gain	0.0 dB to 40.0 dB

I/Os and power

Non-isolated lines	0 x LVDS input, 0 x LVDS output0 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 consumption	External: 17 W (typical at 12 VDC)

Mechanical properties

Body dimensions (L x W x H in mm)	77 × 70 × 70
Filter/protection glass	IR-Cut 680
IP class	IP30
Lens mount(s)	M58x0.75
Weight	380 g

On-board memory and FPGA

Image buffer (RAM)	448 MByte

Interfaces

Digital interface	10gige
Interface connector	(RJ-45)

FW features - image control

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

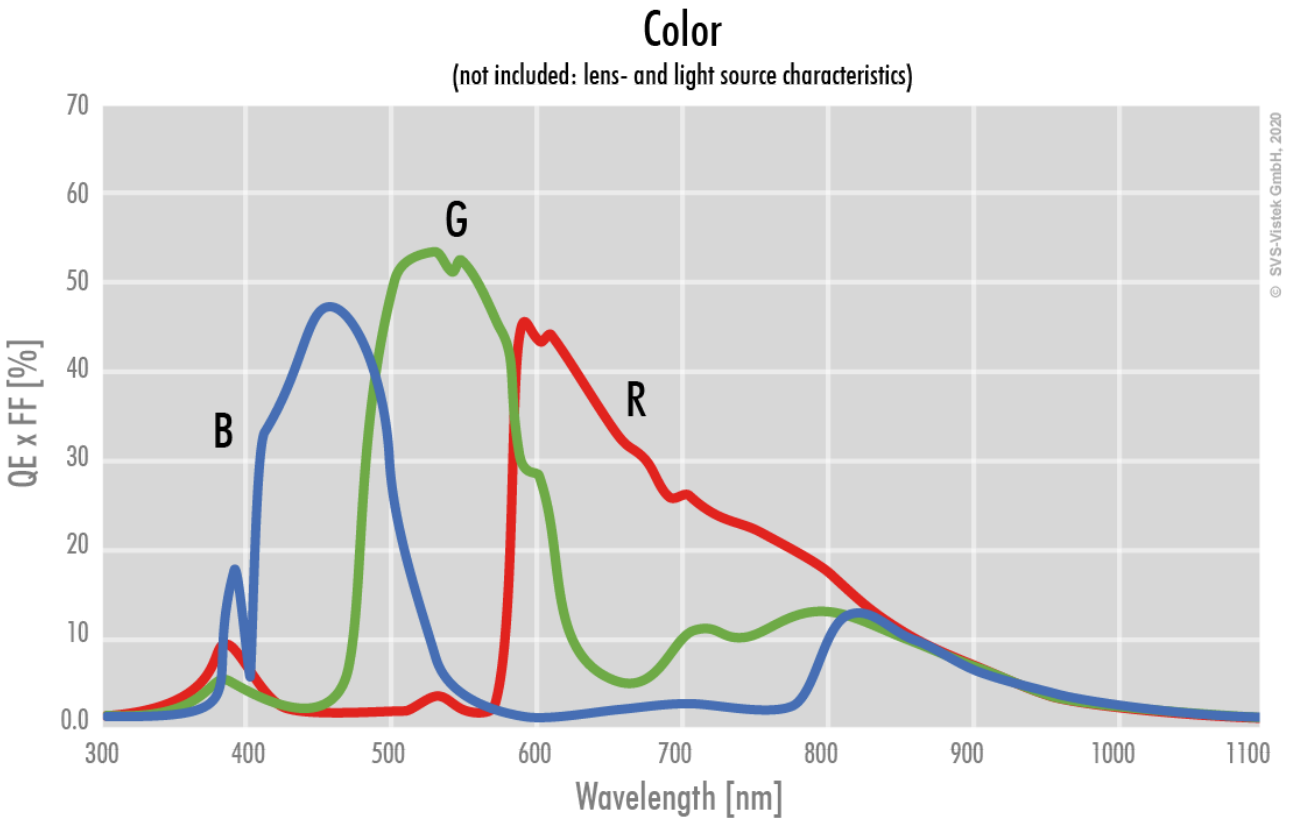
FW features - camera control

Trigger modes/sync	INTERNAL,SOFTWARE,EXTERNAL

FW features - camera control

Camera control features	User Sets, POE, PWM(4), Sequencer,

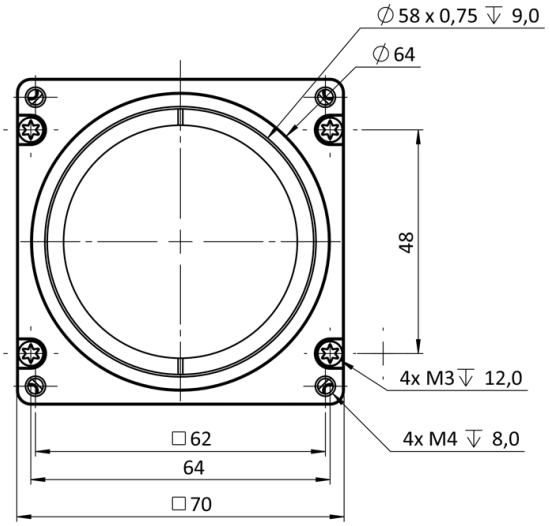
Quantum Efficiency



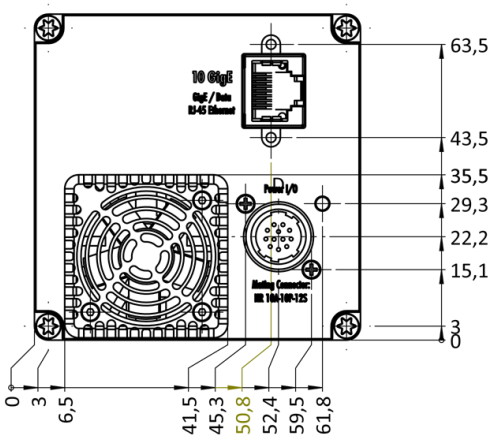
Allied Vision

Technical Drawing

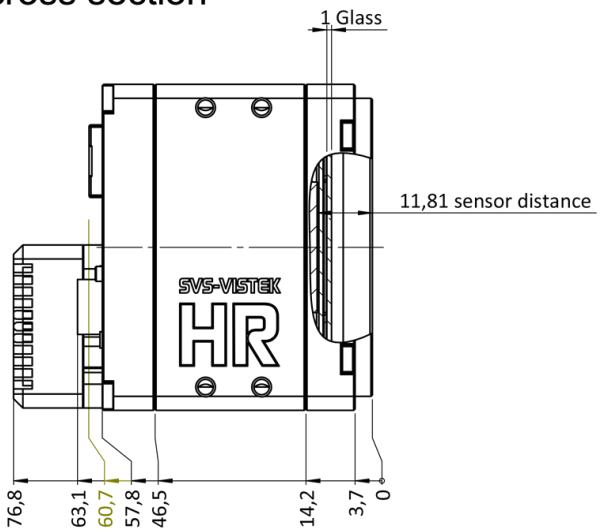
front



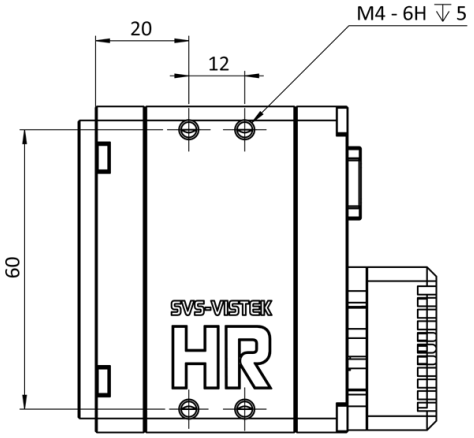
back



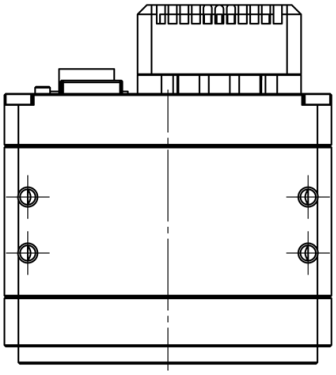
cross section



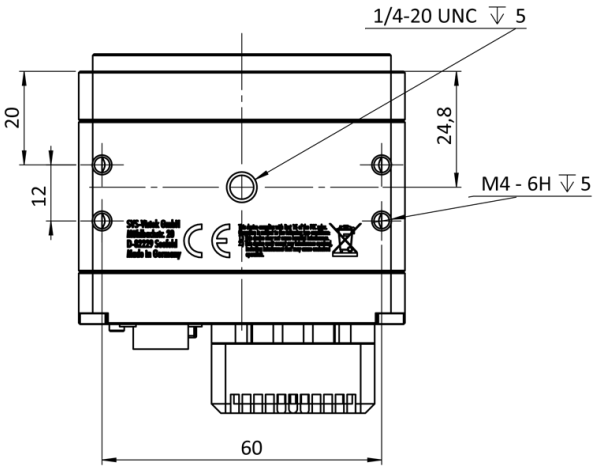
right side



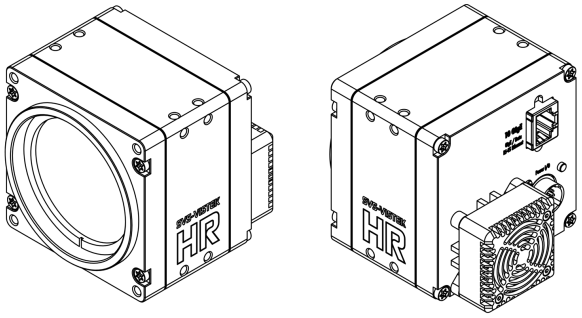
top



bottom

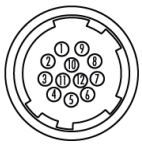


3D



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)