



General

Model: hr51MXGE-G2

Product code(s): F004153

Product series: HR 10GigE

Status: Deleted

Sensor

Sensor type: Area scan

Chroma: Mono

Spectrum: Visible

Spectral range: 400 nm to 1000 nm

Resolution: 8,424 × 6,032 (51.00 MP)

Sensor model: Gpixel GMAX4651-BVM-BU2

Sensor architecture (material): cmos

Shutter type(s): global-shutter

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

Monochrome pixel formats: mono8, mono12

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 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 consumption: External: 17 W (typical at 12 VDC)

Mechanical properties

Body dimensions (L x W x H in mm): 77 x 70 x 70

Filter/protection glass: N-BK7 - AR coating 380-850nm

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

Image control features: FW Features - Image Control

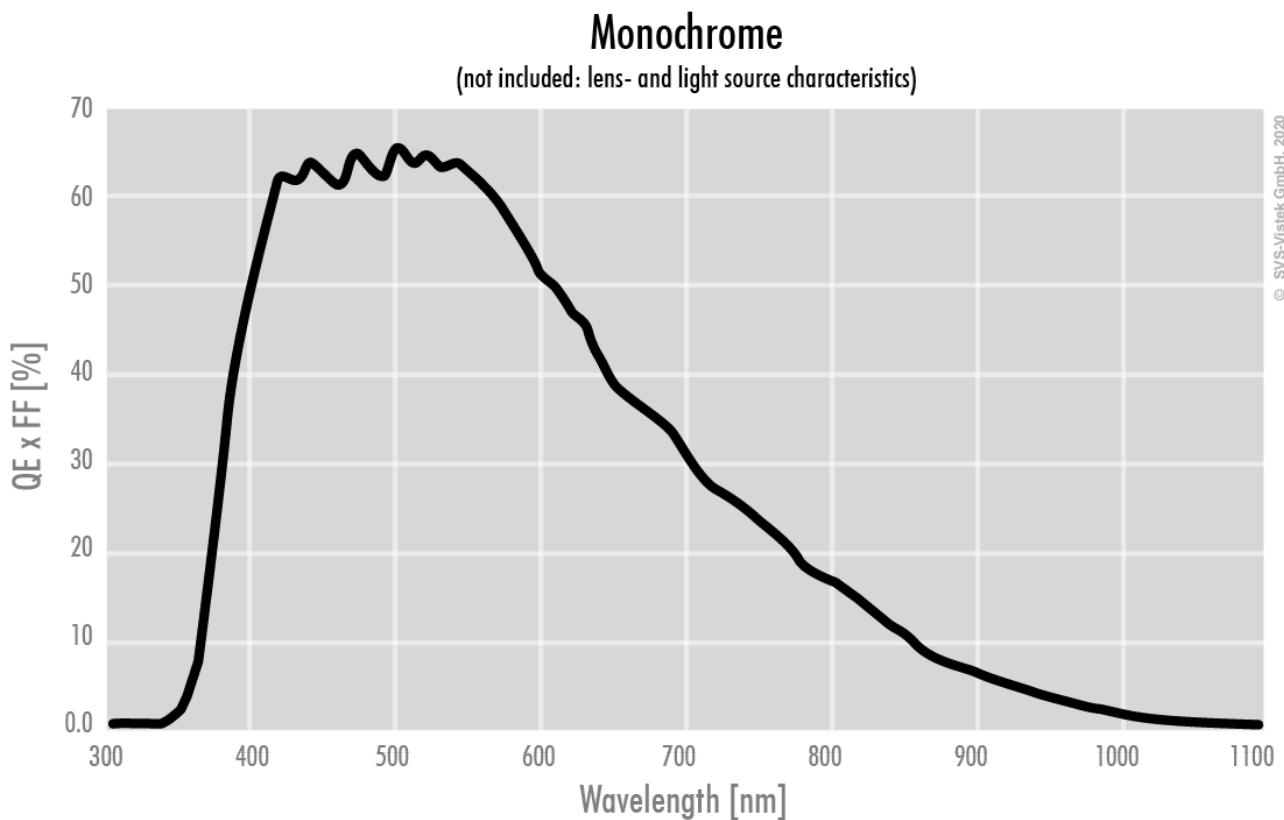
FW features - camera control

Trigger modes/sync: INTERNAL,SOFTWARE,EXTERNAL

FW features - camera control

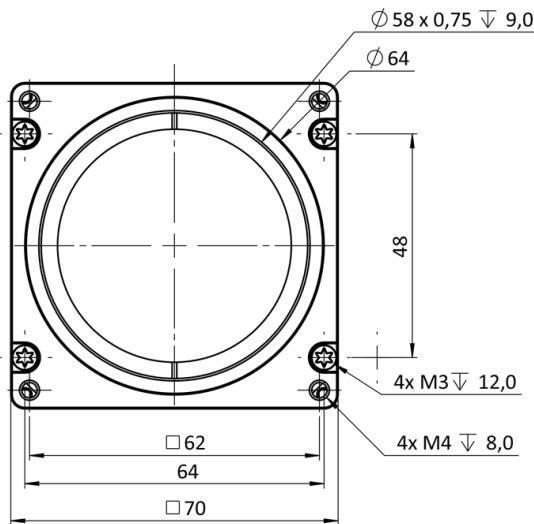
Camera control features:

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

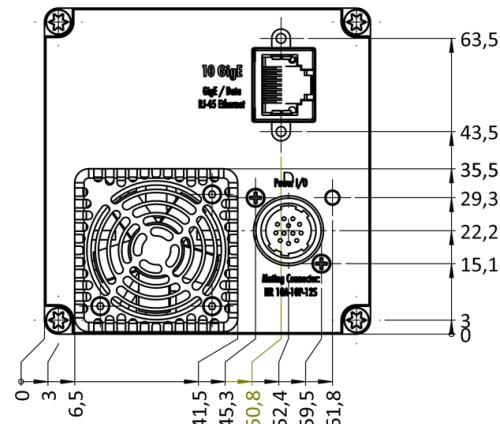


Technical Drawing

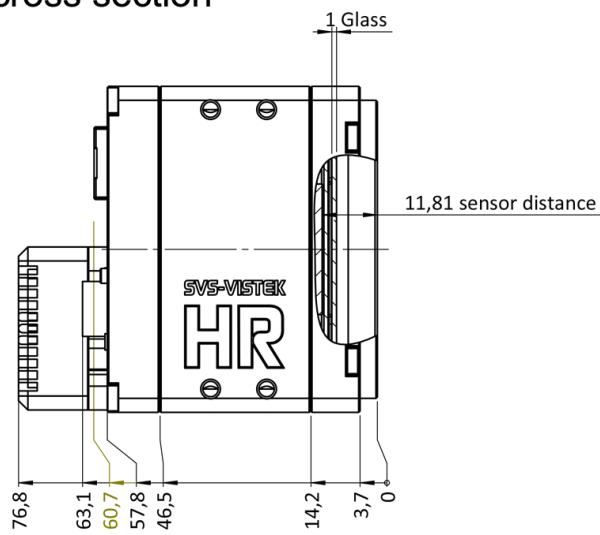
front



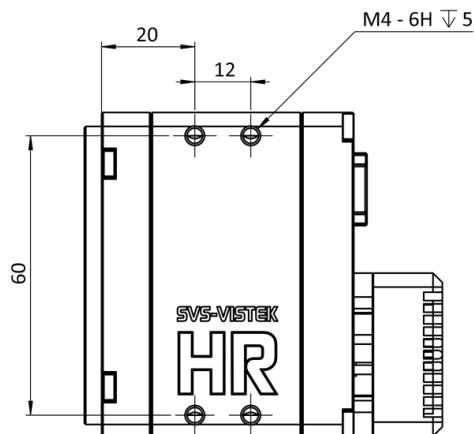
back



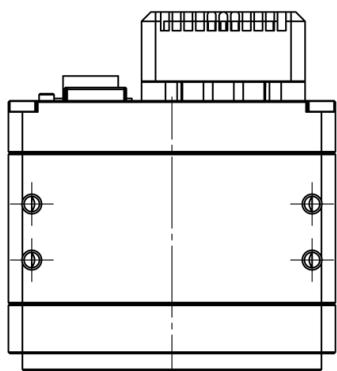
cross section



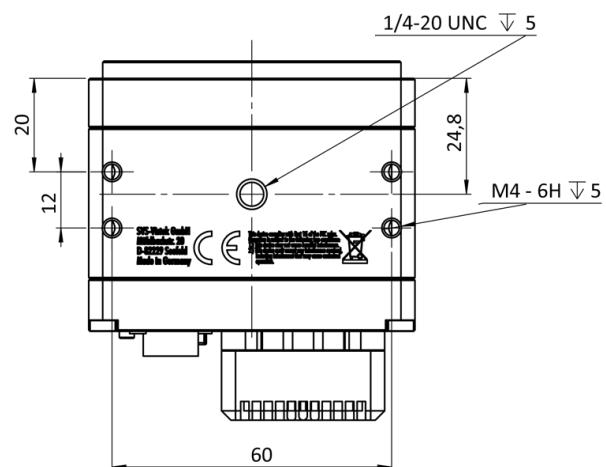
right side



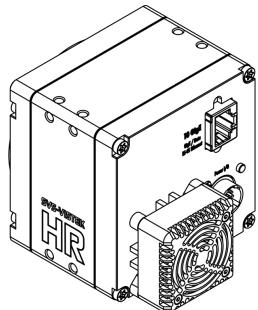
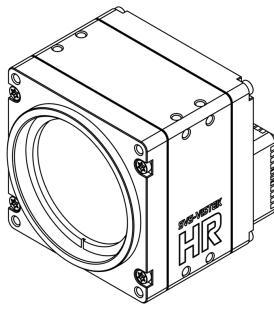
top



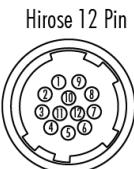
bottom



3D



I/O pin assignment



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)