



General

Model: hr342MXGE

Product code(s): F004070

Product series: HR 10GigE

Status: Available

Sensor

Sensor type: Area scan

Chroma: Mono

Spectrum: Visible

Spectral range: 400 nm to 1000 nm

Resolution: 6,464 × 4,852 (31.40 MP)

Sensor model: Sony IMX342LLA

Sensor architecture (material): cmos

Shutter type(s): global-shutter

Sensor size: 22.30 × 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

Monochrome pixel formats: mono8, mono12

Imaging performance

Dynamic range: 70.5 dB

SNR: 39.9 dB

Timing and gain

Max. frame rate: 35.4 fps

Exposure time: 60 µs (max)

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 consumption: External: 16 W (typical at 12 VDC)

Mechanical properties

Body dimensions (L x W x H in mm): 80 x 70 x 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 KByte

Interfaces

Digital interface: 10gige

Interface connector: (RJ-45)

FW features - image control

Exposure modes: Manual, Auto, External

Gain modes: Auto, Manual

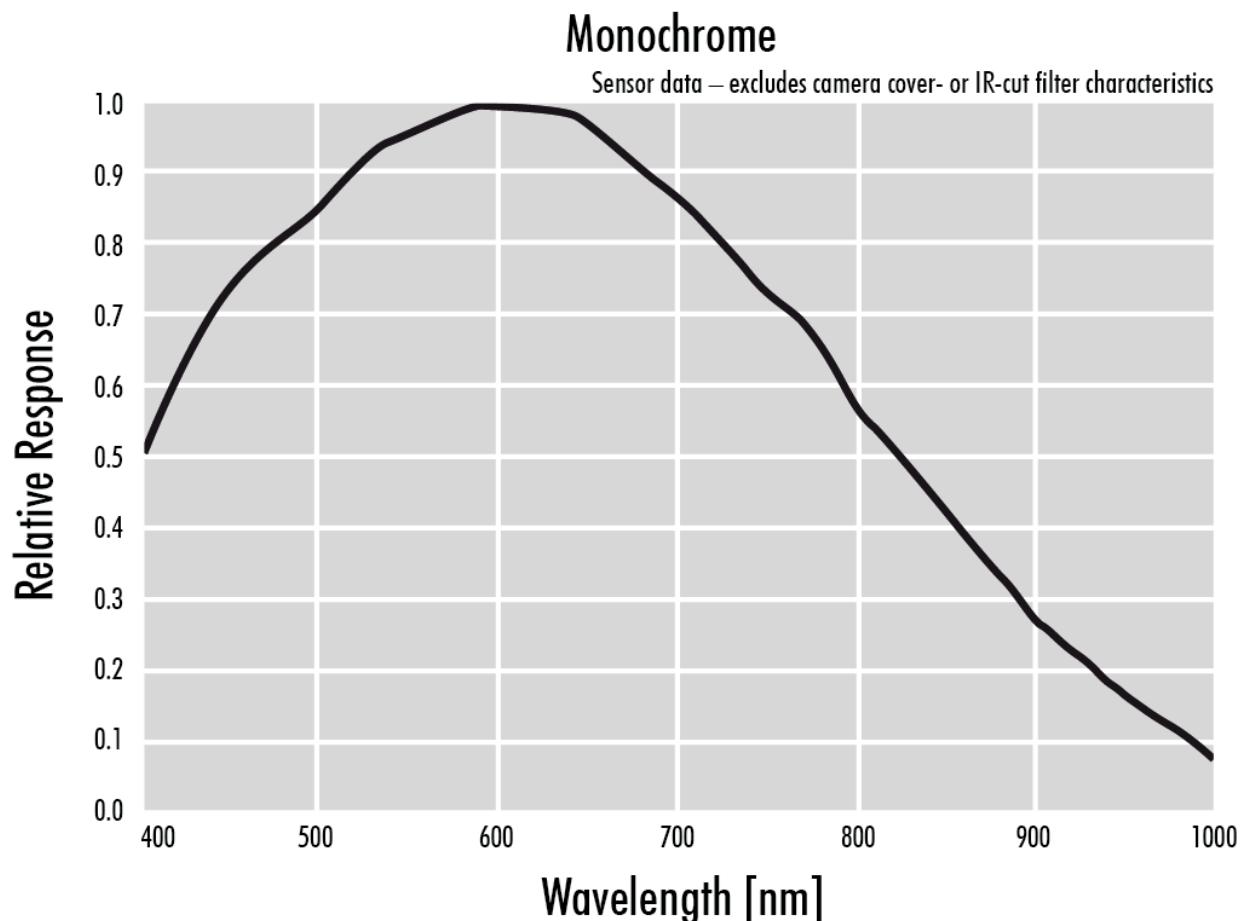
Image control features: FW Features - Image Control

FW features - camera control

Trigger modes/sync: INTERNAL,SOFTWARE,EXTERNAL

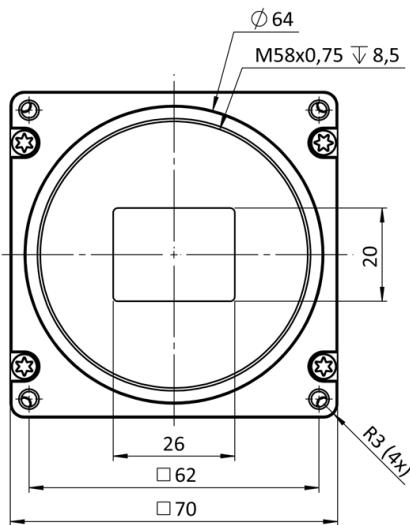
Camera control features: User Sets, POE, PWM(4), Sequencer,

Quantum Efficiency

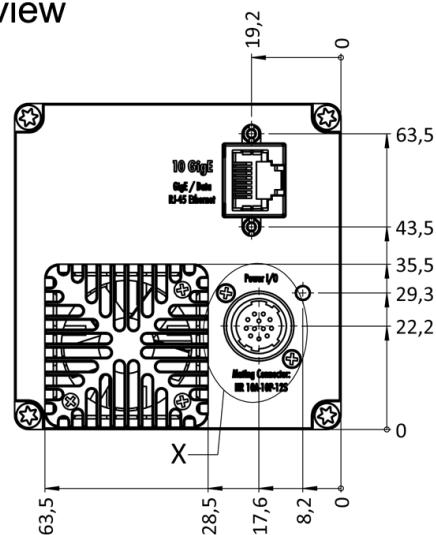


Technical Drawing

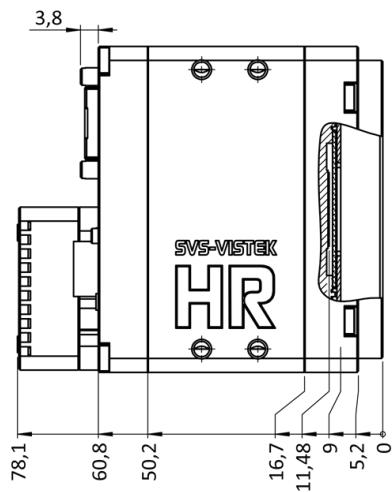
front view



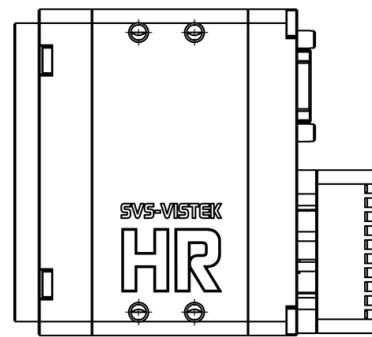
back view



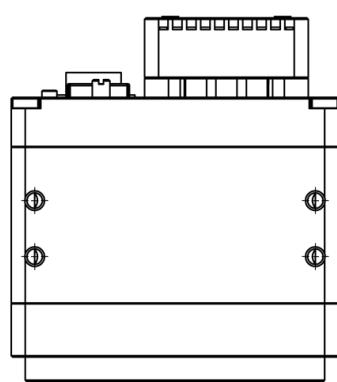
cross section



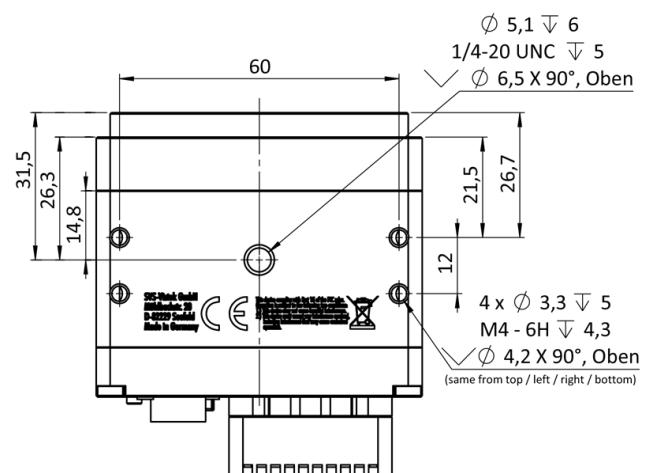
right view



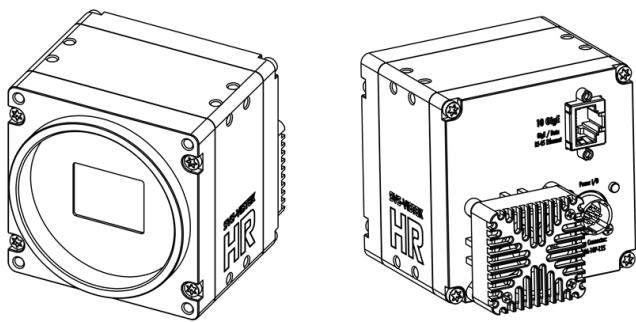
top view



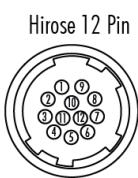
bottom view



3D view



I/O pin assignment



1	VIN -	(GND)	7	OUT1	(open drain)
2	VIN +	(10 V to 25 V DC)	8	OUT2	(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	OUT3	(open drain)
6	IN 2	(0 - 24V)	12	OUT0	(open drain)