



HR 10GigE

hr342MXGE

General

Model	hr342MXGE
Product code	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 IMX342
Sensor architecture (material)	cmos
Shutter type(s)	Global shutter (GS)
Sensor size	22.3 × 16.74 mm (27.88 mm, Type 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	19 μ s to 60 s
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,
I/O connector	12-pin Hirose HR10A-10P-12S
Power supply	10 to 25VDC, Power over Ethernet (POE+, in option -P)
Power consumption	External: 16 W (typical)

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 MByte

Interfaces

Digital interface	10gige
Interface connector	(RJ-45)
Vision standard	GigE Vision 2.0

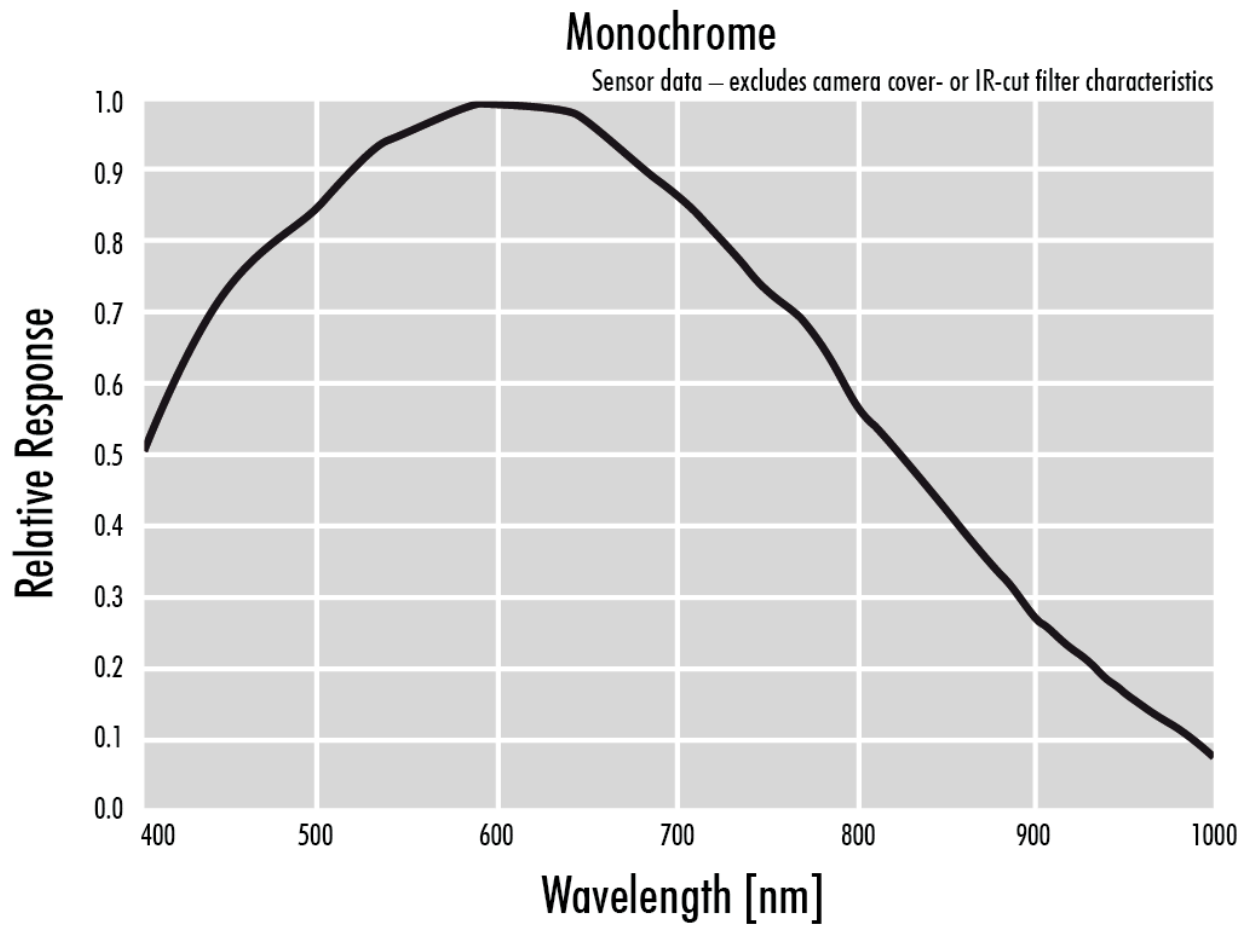
FW features - image control

Exposure modes	manual, auto, external
Gain modes	auto, manual
Image control features	lut, mirror-image, dpc, shading-correction, ffc

FW features - camera control

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

Quantum Efficiency



Technical drawing of the front view of a square plate with a central circular hole and four corner holes. The plate has a square outer profile with rounded corners (R3) and a central circular hole with a diameter of 64 mm. The plate is secured by four screws in the corners. Dimensions include a total width of 70 mm, a central square area of 62 mm by 62 mm, and a distance of 26 mm from the center to the inner edge of the corner holes. The corner holes have a diameter of 6 mm and a depth of 8.5 mm. The plate is made of M58x0,75 material.

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Technical drawing of the SVS-VISTEK HR unit, showing front and side views with dimensions in millimeters (mm).

Front View Dimensions:

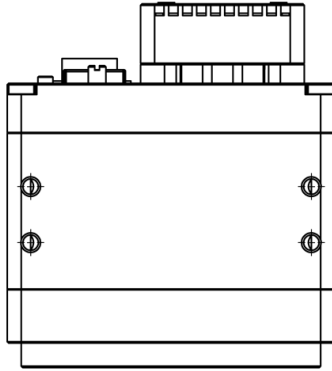
- Top width: 3,8
- Left height: 78,1
- Bottom height: 60,8
- Right height: 50,2
- Bottom width (left section): 16,7
- Bottom width (middle section): 11,48
- Bottom width (right section): 9
- Bottom width (far right section): 5,2
- Bottom width (bottom right corner): 0

Side View Dimensions:

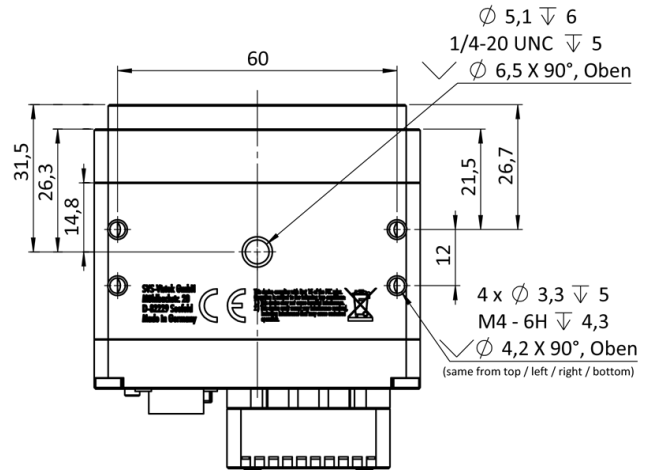
- Top width: 3,8
- Left height: 78,1
- Bottom height: 60,8
- Right height: 50,2
- Bottom width (left section): 16,7
- Bottom width (middle section): 11,48
- Bottom width (right section): 9
- Bottom width (far right section): 5,2
- Bottom width (bottom right corner): 0

Unit Label: SVS-VISTEK HR

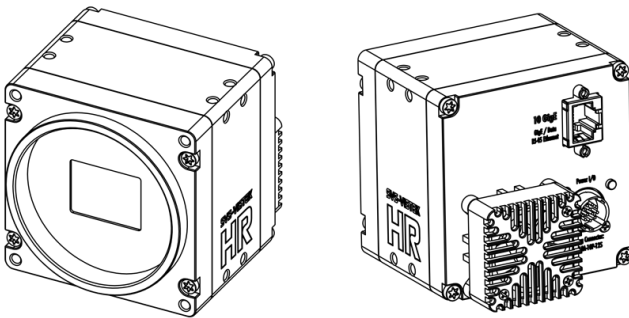
top view



bottom view



3D view



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)