



HR 10GigE

hr455MXGE-T

General

Model	hr455MXGE-T
Product code	F004217
Product series	HR 10GigE
Status	Available

Sensor

Sensor type	Area scan
Chroma	Mono
Spectrum	Visible
Spectral range	400 nm to 1000 nm
Resolution	9,568 × 6,380 (61.00 MP)
Sensor model	Sony IMX455
Sensor architecture (material)	cmos
Shutter type(s)	rolling-shutter
Sensor size	35.98 × 23.99 mm (43.24 mm, 43.3mm (Type 2.7))
Pixel size	3.76 µm × 3.76 µm

Pixel formats

Sensor bit depth	8-bit, 12-bit, 16-bit
Monochrome pixel formats	mono8, mono12, mono16

Imaging performance

Dynamic range	81.4 dB
SNR	47 dB

Timing and gain

Max. frame rate	18 fps
Exposure time	34 μ s to 60 s
Gain	0.0 dB to 36.0 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	21 to 25VDC, Power over Ethernet (POE+)
Power consumption	External: 30 W (typical)

Operating conditions

Operating temperature (housing)	-10 °C to 70 °C
---------------------------------	-----------------

Mechanical properties

Body dimensions (L x W x H in mm)	94 × 70 × 70
IP class	IP30
Lens mount(s)	M58x0.75
Weight	590 g

On-board memory and FPGA

Image buffer (RAM)	448 MByte
--------------------	-----------

Interfaces

Digital interface	10gige
Interface connector	(RJ-45)

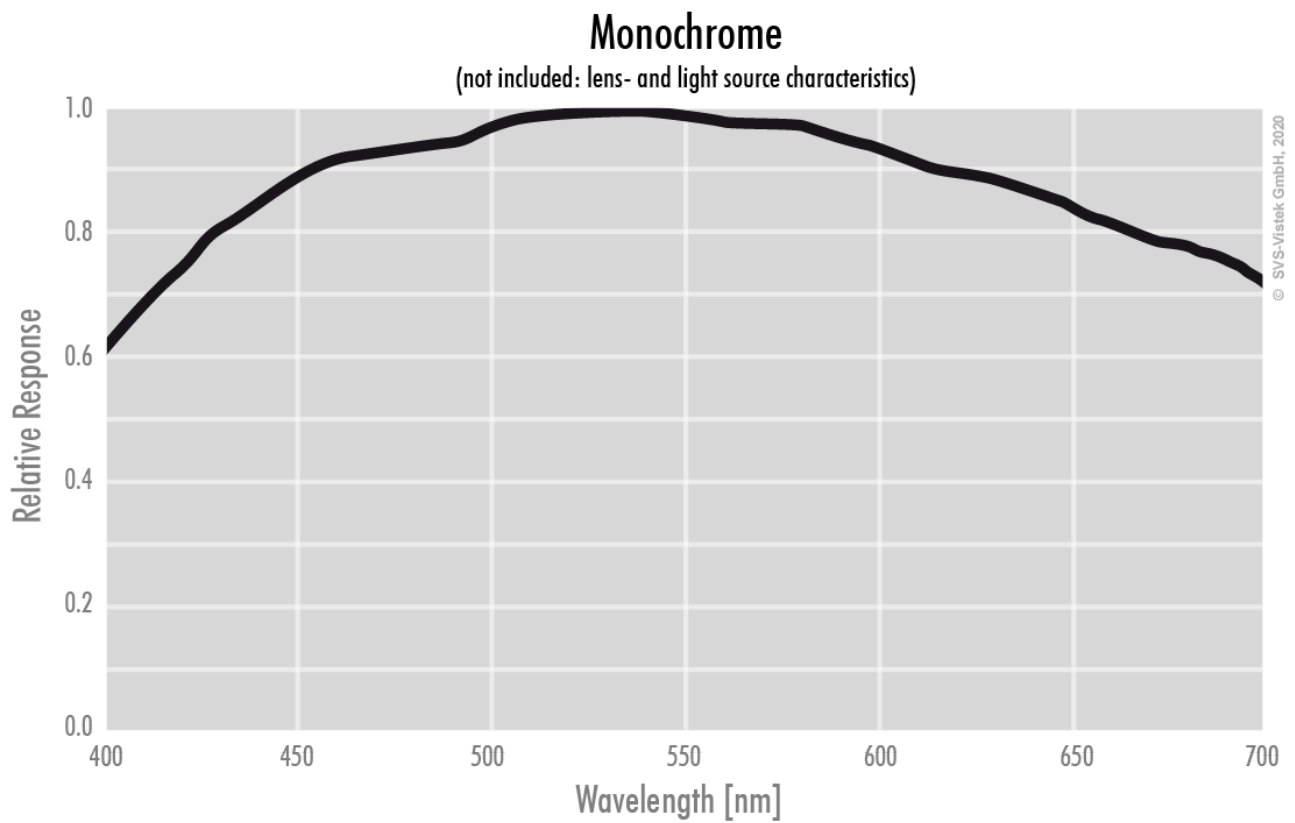
FW features - image control

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

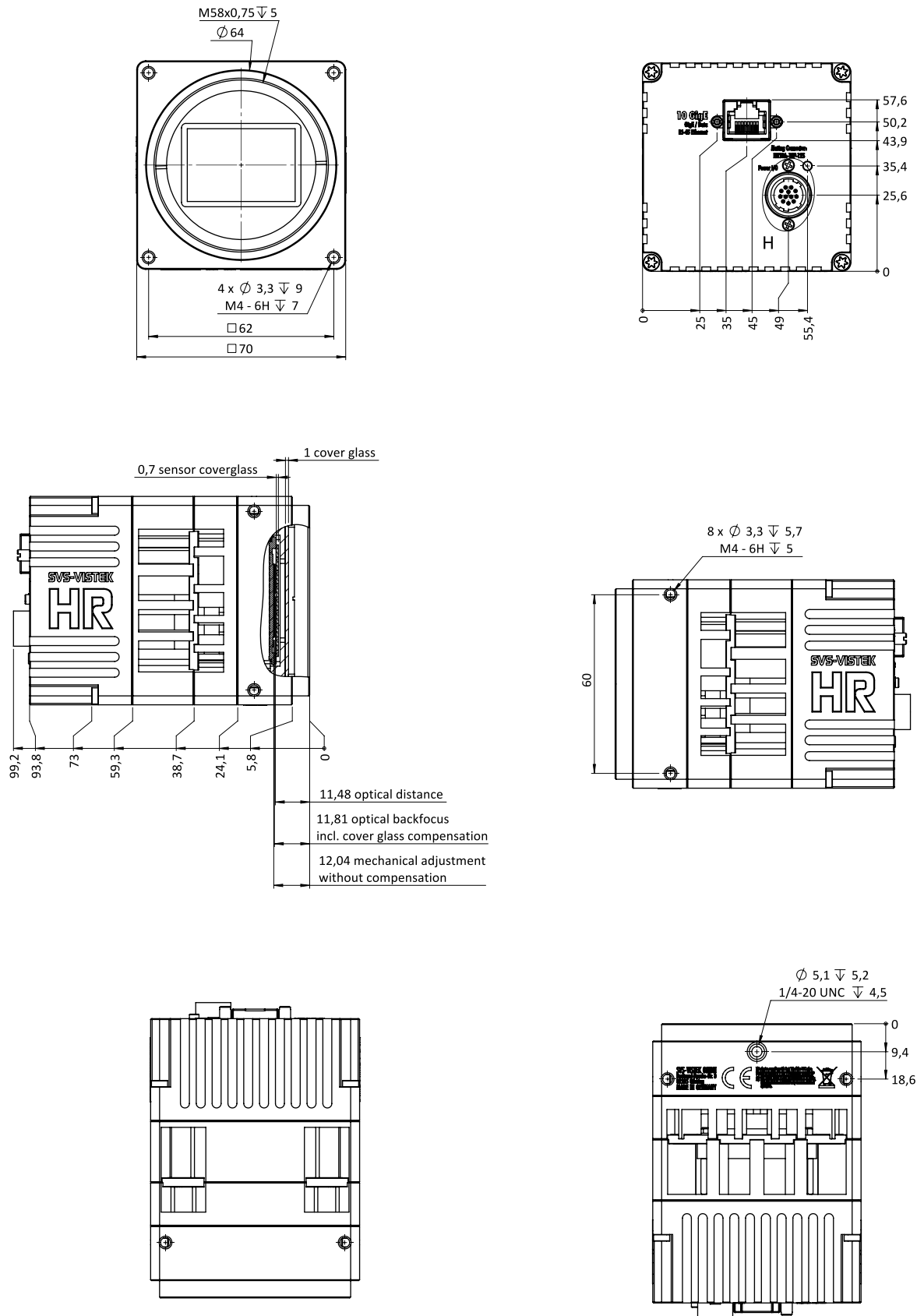
FW features - camera control

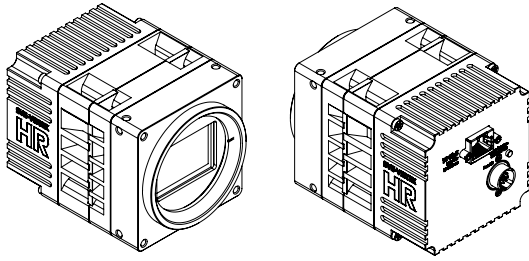
Trigger modes/sync	internal, software, external
Camera control features	User Sets, POE, PWM(4), Sequencer,

Quantum Efficiency



Technical Drawing





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)