

# 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  $\mu$ 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 x 70 x 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: FW Features - Image Control

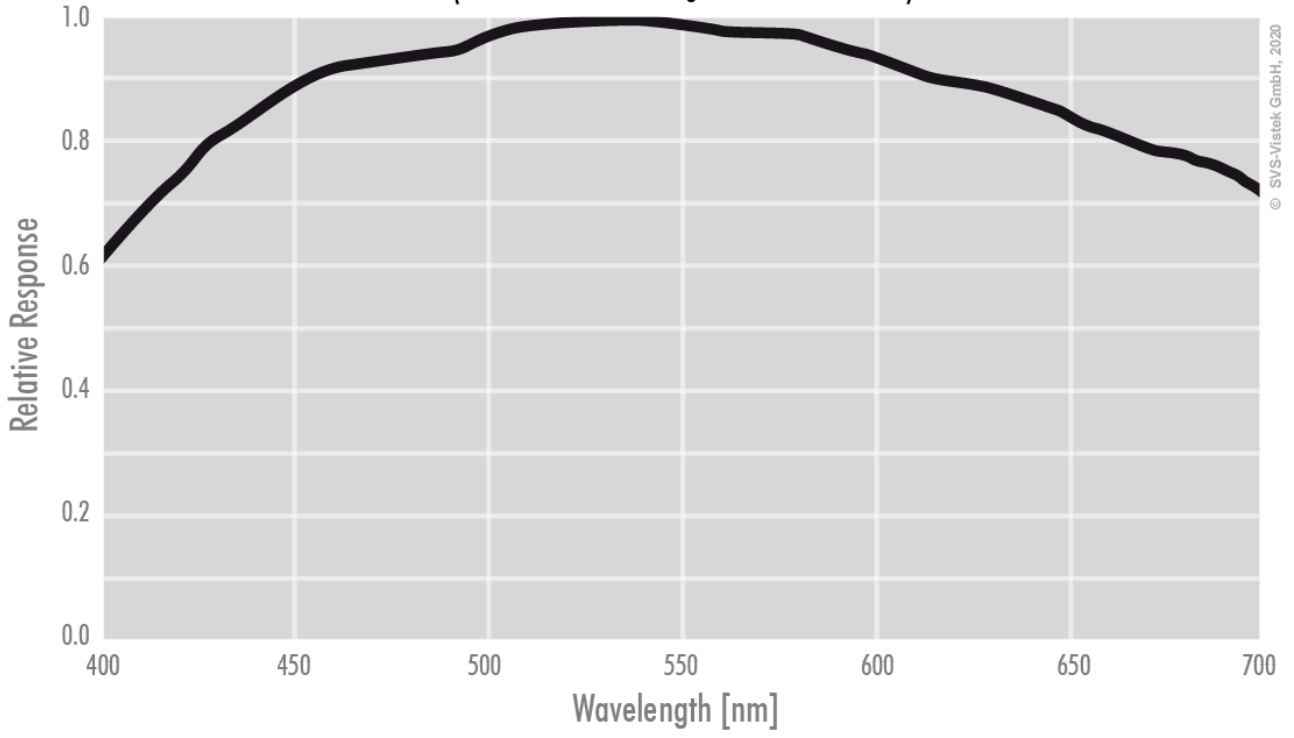
## FW features - camera control

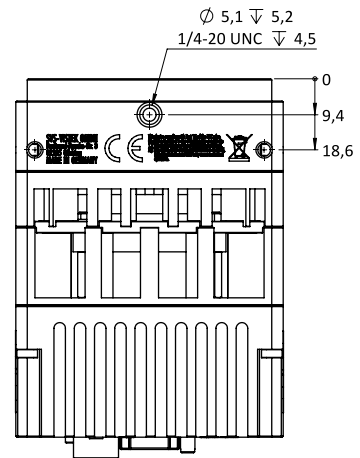
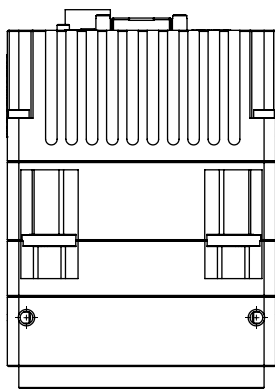
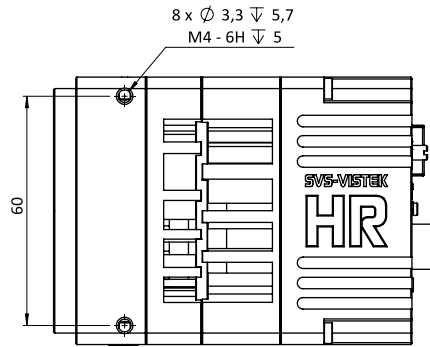
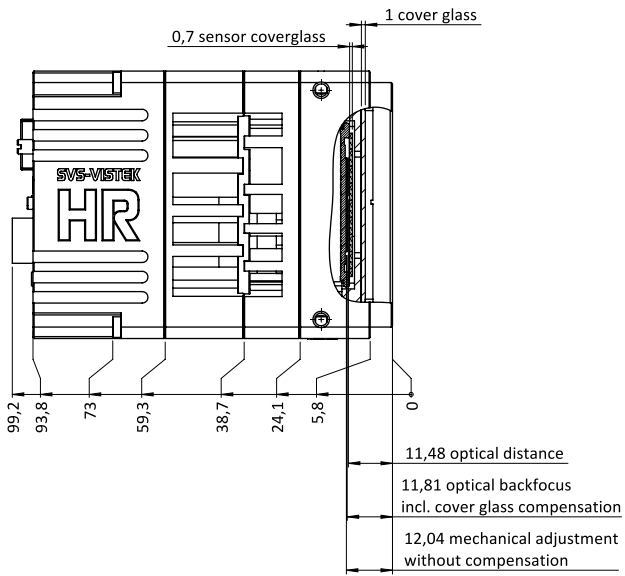
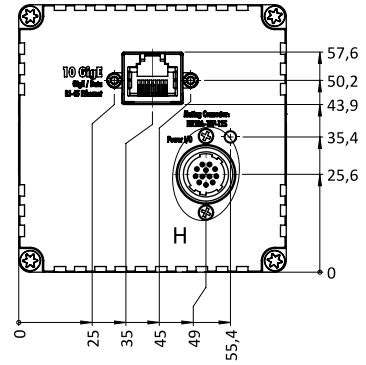
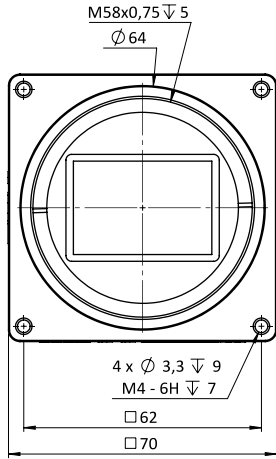
Trigger modes/sync: INTERNAL,SOFTWARE,EXTERNAL

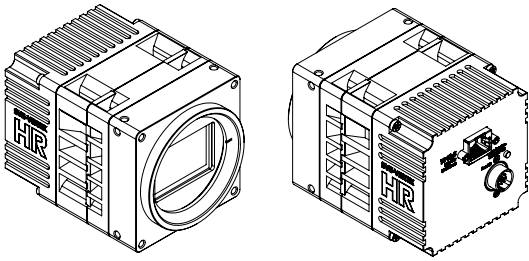
Camera control features: User Sets, POE, PWM(4), Sequencer,

### Monochrome

(not included: lens- and light source characteristics)

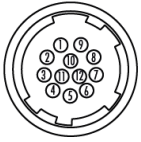






## I/O pin assignment

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)