Allied Vision



HR 10GigE

hr51MXGE

□□	
□□	hr51MXGE
□□□□	F004100
□□□□	HR 10GigE
□□	Available

□□□	
□□□□□	Area scan
□□	Mono
□□	Visible
□□□□	400 nm to 1000 nm
□□□	8,424 × 6,032 (51.00 MP)
□□□□□	Gpixel GMAX4651
□□□□□ (□□)	cmos
□□□□	Global shutter (GS)
□□□□□	38.75 × 27.75 mm (47.66 mm, Type Full Frame)
□□□□	4.60 µm × 4.60 µm

□□□□	
□□□□□	8-bit, 12-bit
□□□□□□	mono8, mono12

□□□□	
□□□□	65 dB
□□□	42.6 dB

Allied Vision

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□□□□□	23.7 fps
□□□□	17 µs to 60 s
□□	0.0 dB to 40.0 dB

I/O □□□

□□□□	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,
□□□□□□	1 x RS232 input, 1 x RS232 output, 0 x RS422 input, 0 x RS422 output,
□□□□	1 x Optical isolated input, 0 x Optical isolated input,
I/O □□□	12-pin Hirose HR10A-10P-12S
□□□□	10 to 25VDC, Power over Ethernet (POE+, in option -P)
□□	External: 17 W (typical)

□□□□

□□□□ (□ x □ x □ mm)	77 × 70 × 70
□□□/□□□□	N-BK7 - AR coating 380-850nm
□□□□	IP30
□□□□	M58x0.75
□□	380 g

□□□□□□ FPGA

□□□□□ (RAM)	448 MByte

□□

□□□□	10gige
□□□□□	(RJ-45)
□□□□	GigE Vision 2.0

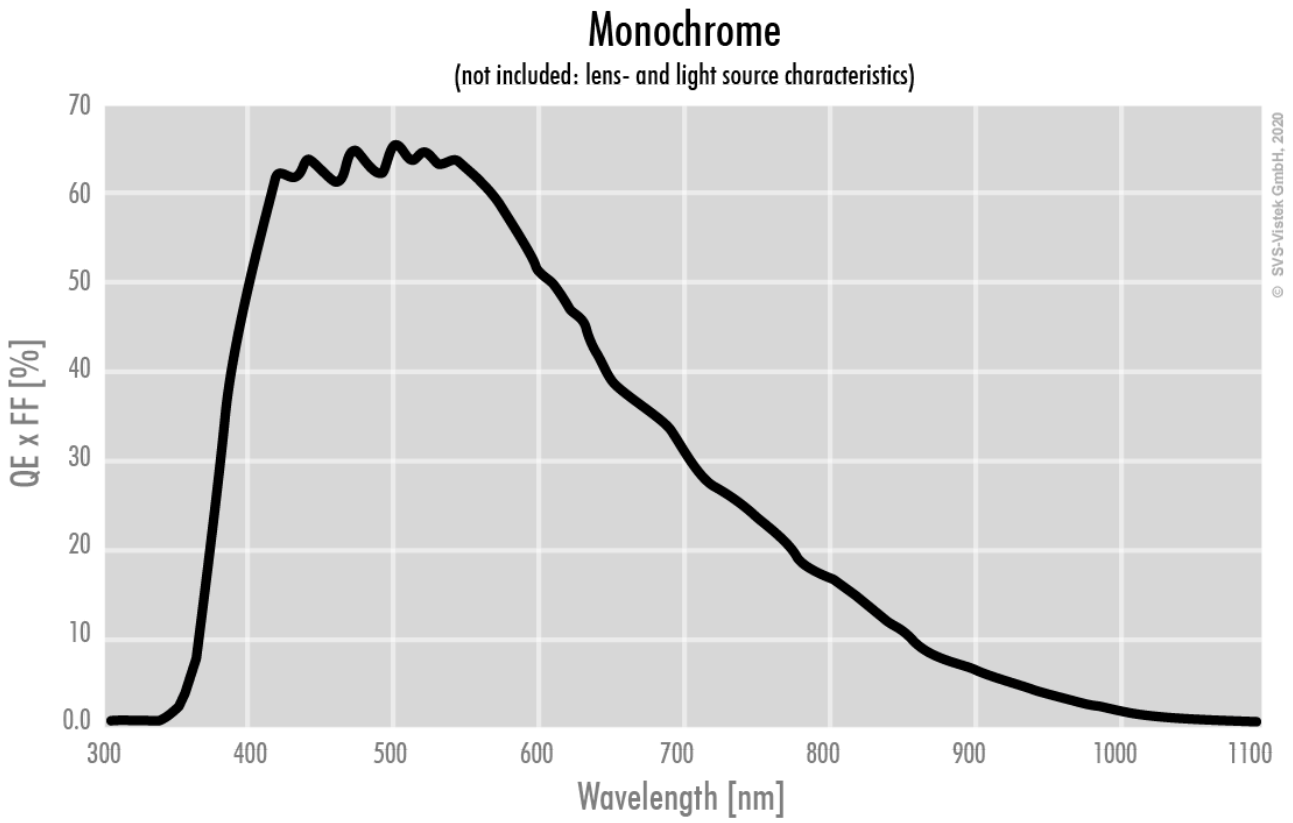
FW □□ – □□□□

□□□□	manual, auto
□□□□	auto, manual
□□□□□□	roi, lut, mirror-image, dpc, shading-correction, ffc

FW □□ – □□□□

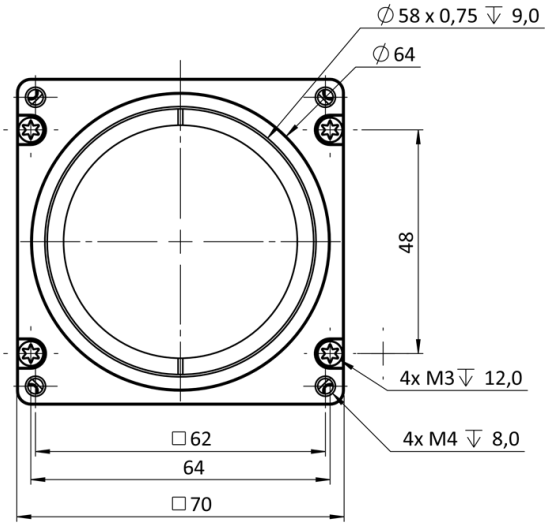
□□□□/□□	internal, software, external
□□□□□□	User Sets, POE, PWM(4), Sequencer,

□□□□

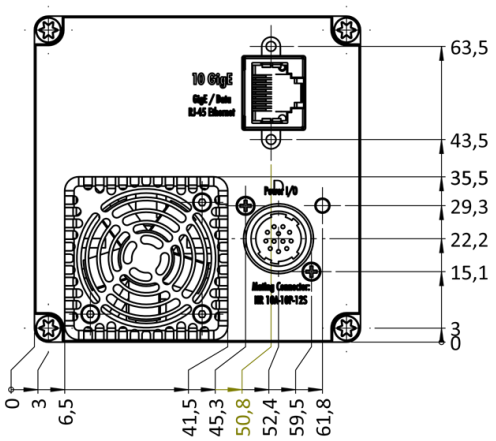

Monochrome
(not included: lens- and light source characteristics)
QE x FF [%]
70
60
50
40
30
20
10
0.0
300
400
500
600
700
800
900
1000
1100
Wavelength [nm]
© SVS-Vistek GmbH, 2020

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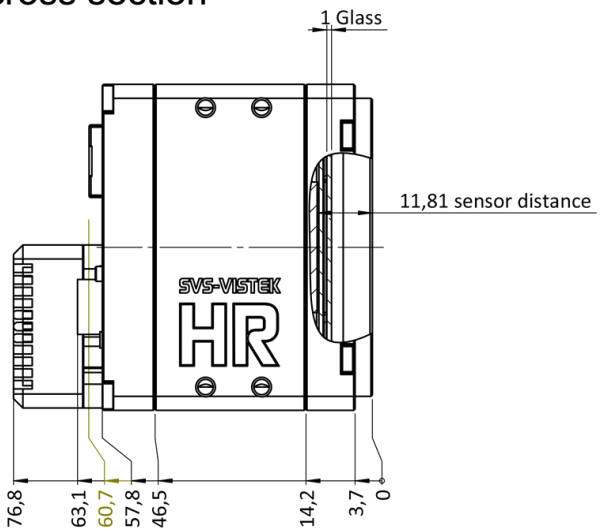
front



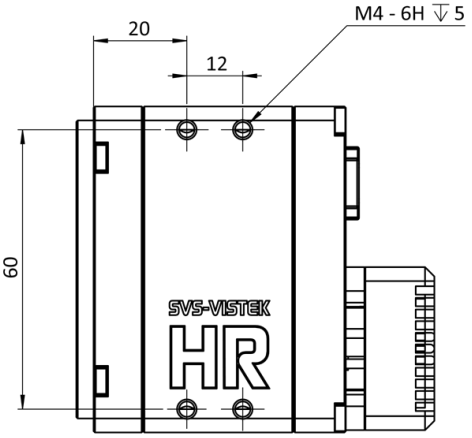
back



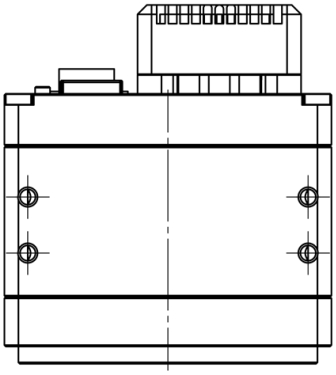
cross section



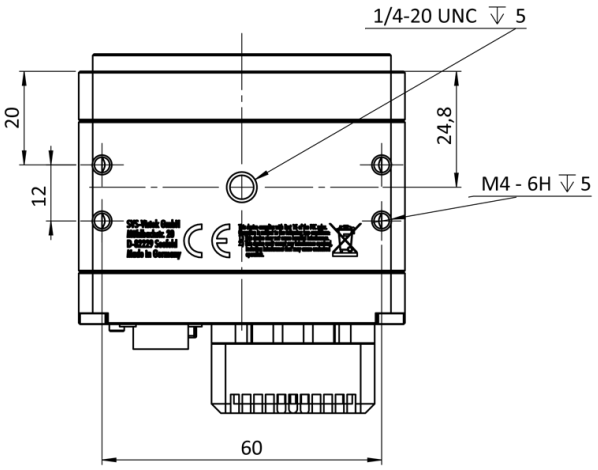
right side



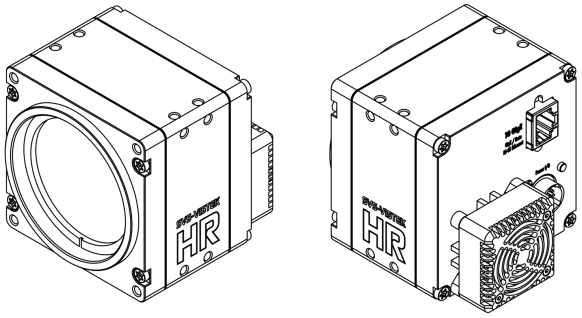
top



bottom

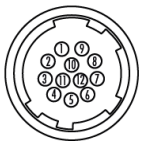


3D



I/O □□□□

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)