Allied Vision



HR 10GigE

hr51MXGE

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□□□	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
SNR	42.6 dB

□□□□□□□□□□

□□□□□□□□□□	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)

□□□□□

□□□□□L x W x H mm□	77 × 70 × 70
□□□□□/□□□□□	N-BK7 - AR coating 380-850nm
IP□□	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,

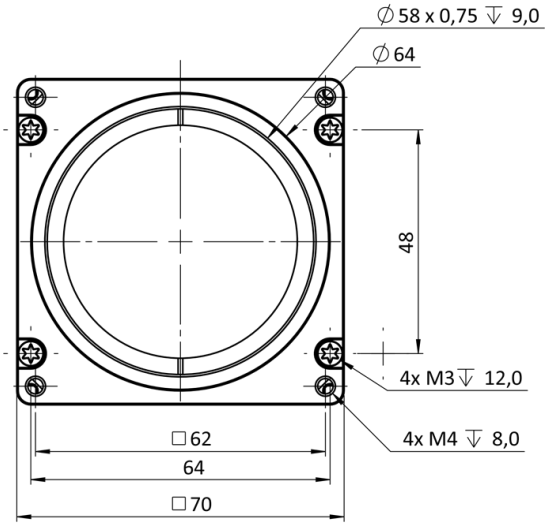
Quantum Efficiency



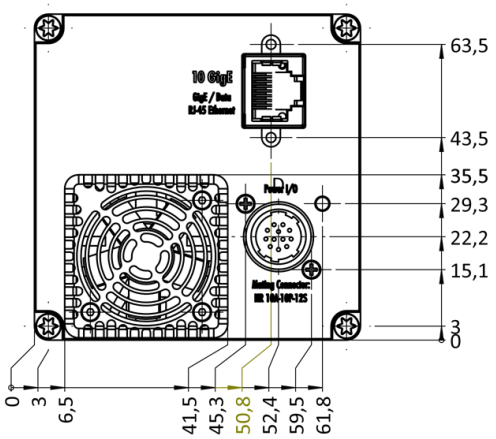
Allied Vision

Technical Drawing

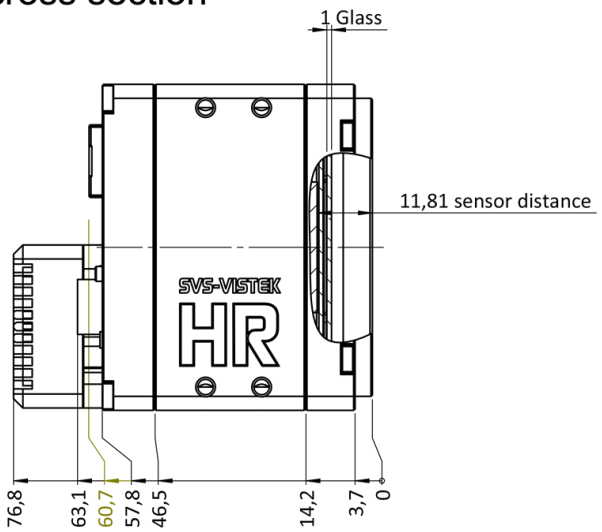
front



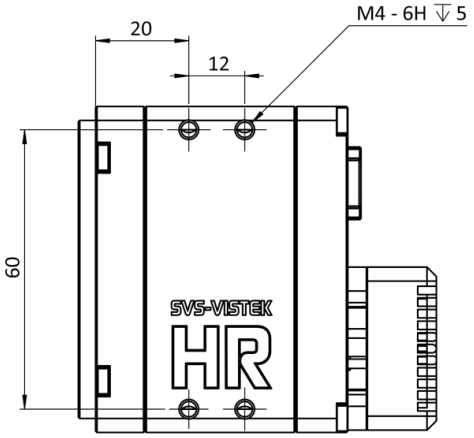
back



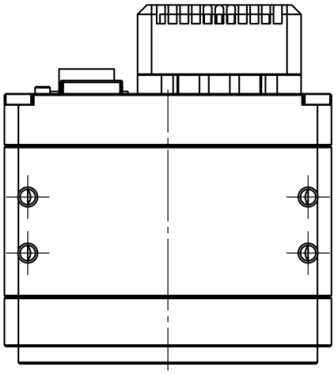
cross section



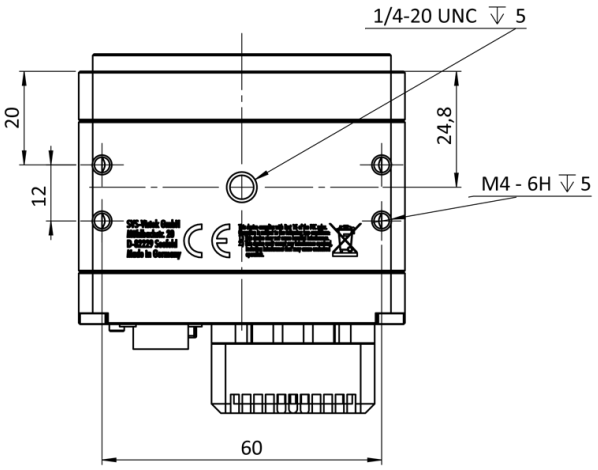
right side



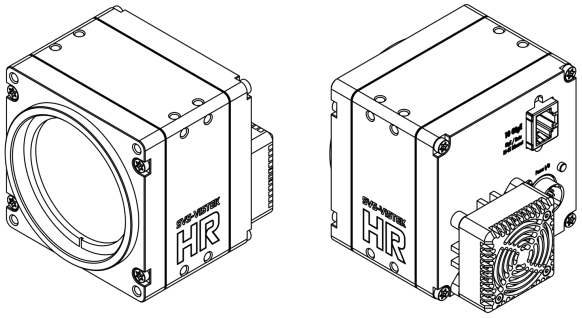
top



bottom

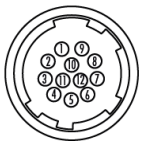


3D



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)