



HR Camera Link

hr65MCL

General

Model	hr65MCL
Product code	F004133
Product series	HR Camera Link
Status	Available

Sensor

Sensor type	Area scan
Chroma	Mono
Spectrum	Visible
Spectral range	400 nm to 1000 nm
Resolution	9,344 × 7,000 (65.00 MP)
Sensor model	Gpixel GMAX3265
Sensor architecture (material)	cmos
Shutter type(s)	global-shutter
Sensor size	29.9 × 22.4 mm (37.36 mm, 37.4mm)
Pixel size	3.20 μm × 3.20 μm

Pixel formats

Sensor bit depth	8-Bit,10-Bit
Monochrome pixel formats	mono8, mono10

Imaging performance

Dynamic range	65.6 dB
SNR	40 dB

Timing and gain

Max. frame rate	13 fps
Exposure time	21 μ s to 60 s
Gain	0.0 dB to 18.0 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	10 to 25VDC
Power consumption	External: 9 W (typical)

Mechanical properties

Body dimensions (L x W x H in mm)	76 x 70 x 70
Filter/protection glass	N-BK7 - AR coating
IP class	IP30
Lens mount(s)	M58x0.75
Weight	420 g

On-board memory and FPGA

Non-volatile memory (Flash)	32 MByte
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Interfaces

Digital interface	camera link 80-bit
Interface connector	SDR

FW features - image control

Exposure modes	Manual, Auto, External
Gain modes	Auto, Manual
Image control features	FW Features - Image Control

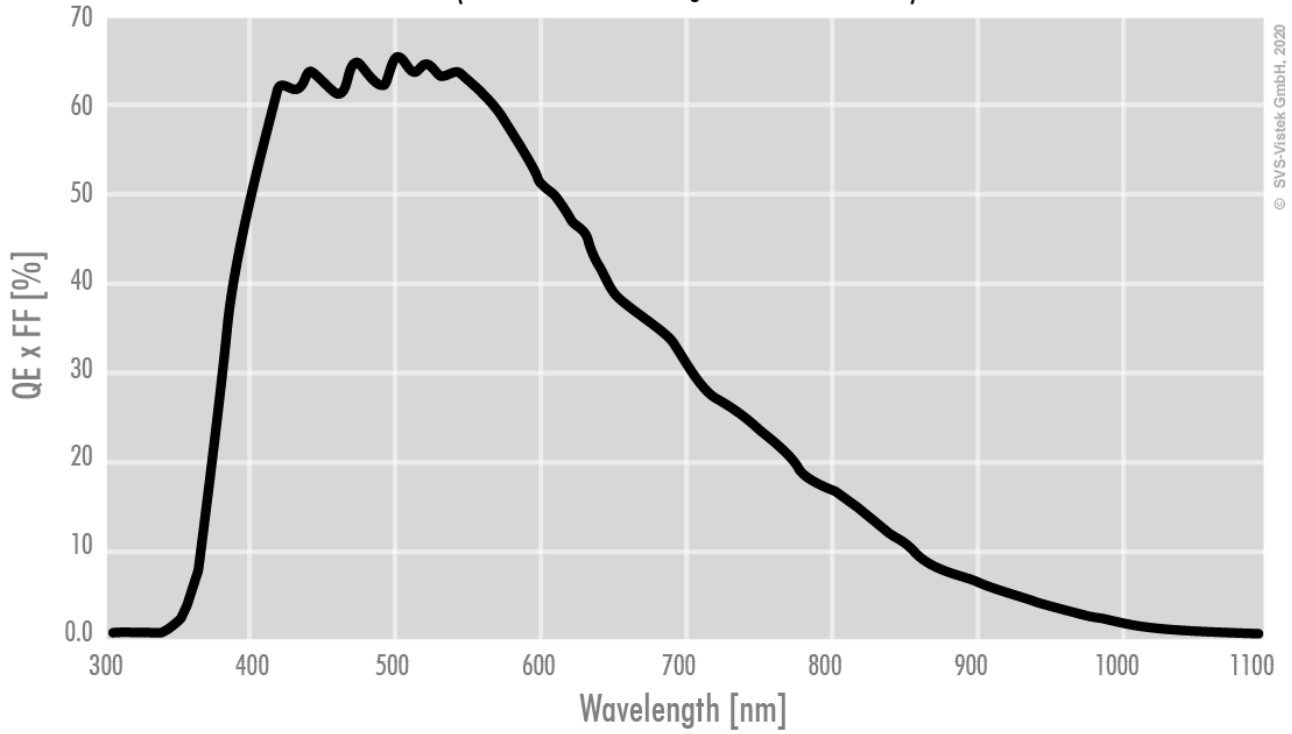
FW features - camera control

Trigger modes/sync	INTERNAL, SOFTWARE, EXTERNAL
Camera control features	User Sets, PWM(4), Sequencer,

Quantum Efficiency

Monochrome

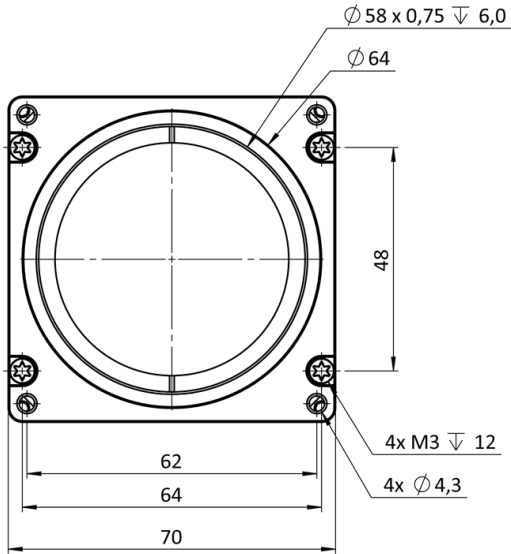
(not included: lens- and light source characteristics)



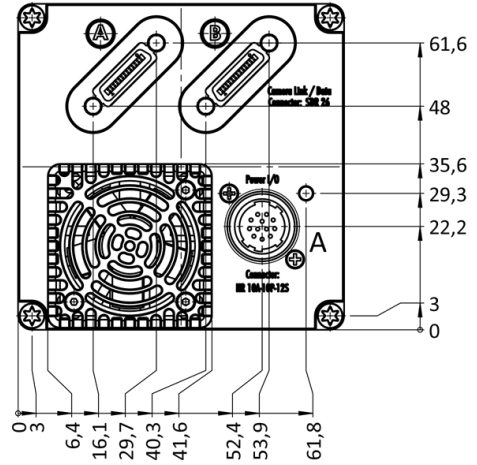
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Technical Drawing

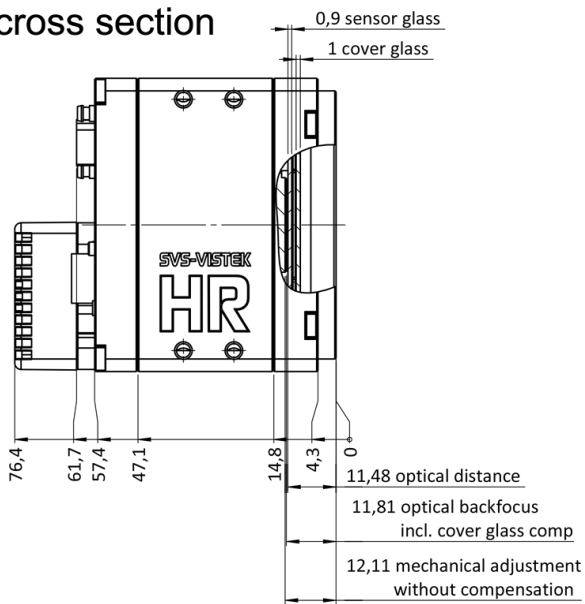
front



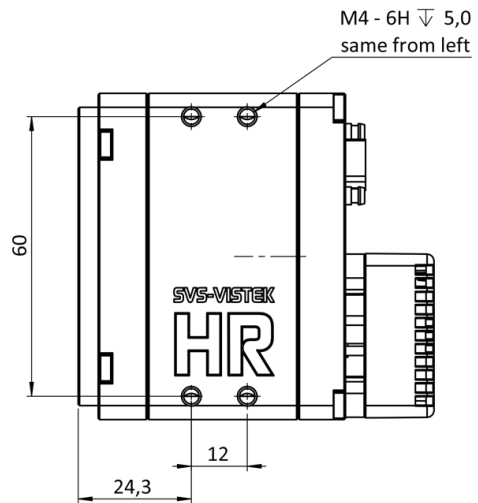
back



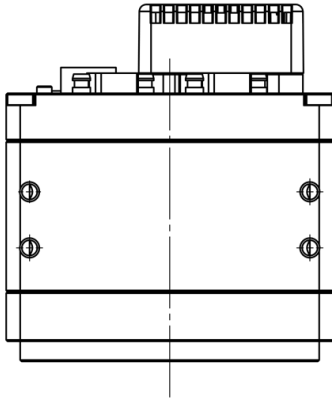
cross section



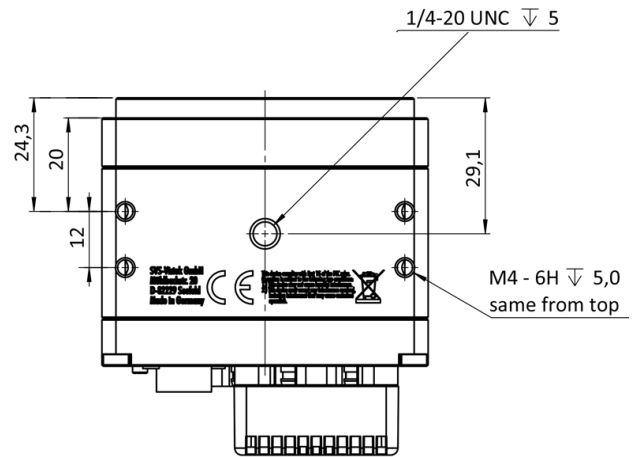
right side



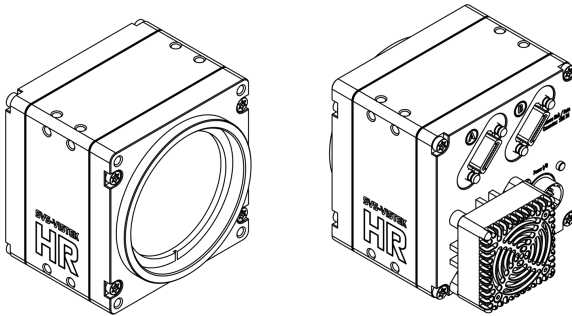
top



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)