Allied Vision

HR CoaXPress

hr49MCX

General

Model	hr49MCX
Product code	F004140
Product series	HR CoaXPress
Status	Deleted

Sensor

Sensor type	Area scan
Chroma	Mono
Spectrum	Visible
Spectral range	400 nm to 1000 nm
Resolution	7,008 × 7,000 (49.00 MP)
Sensor model	Gpixel GMAX3265-49
Sensor architecture (material)	cmos
Shutter type(s)	Global shutter (GS)
Sensor size	22.43 × 22.4 mm (31.7 mm, 37.4mm (2.3"))
Pixel size	3.20 µm × 3.20 µm

Pixel formats

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

Timing and gain

Max. frame rate	30 fps
Exposure time	60 µs (max)
Gain	0.0 dB to 18.0 dB

I/Os and power

Non-isolated lines	0 x LVDS input, 0 x LVDS output0 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: 14 W (typical at 12 VDC)

Operating conditions

Operating temperature (housing)	-10 °C to 65 °C

Mechanical properties

Body dimensions (L x W x H in mm)	76 × 70 × 70
IP class	IP30
Lens mount(s)	M58x0.75
Weight	420 g

On-board memory and FPGA

Non-volatile memory (Flash)	160 KByte

Interfaces

Digital interface	cxp-6 with 4 connections
Interface connector	(Din1.0/2.3)

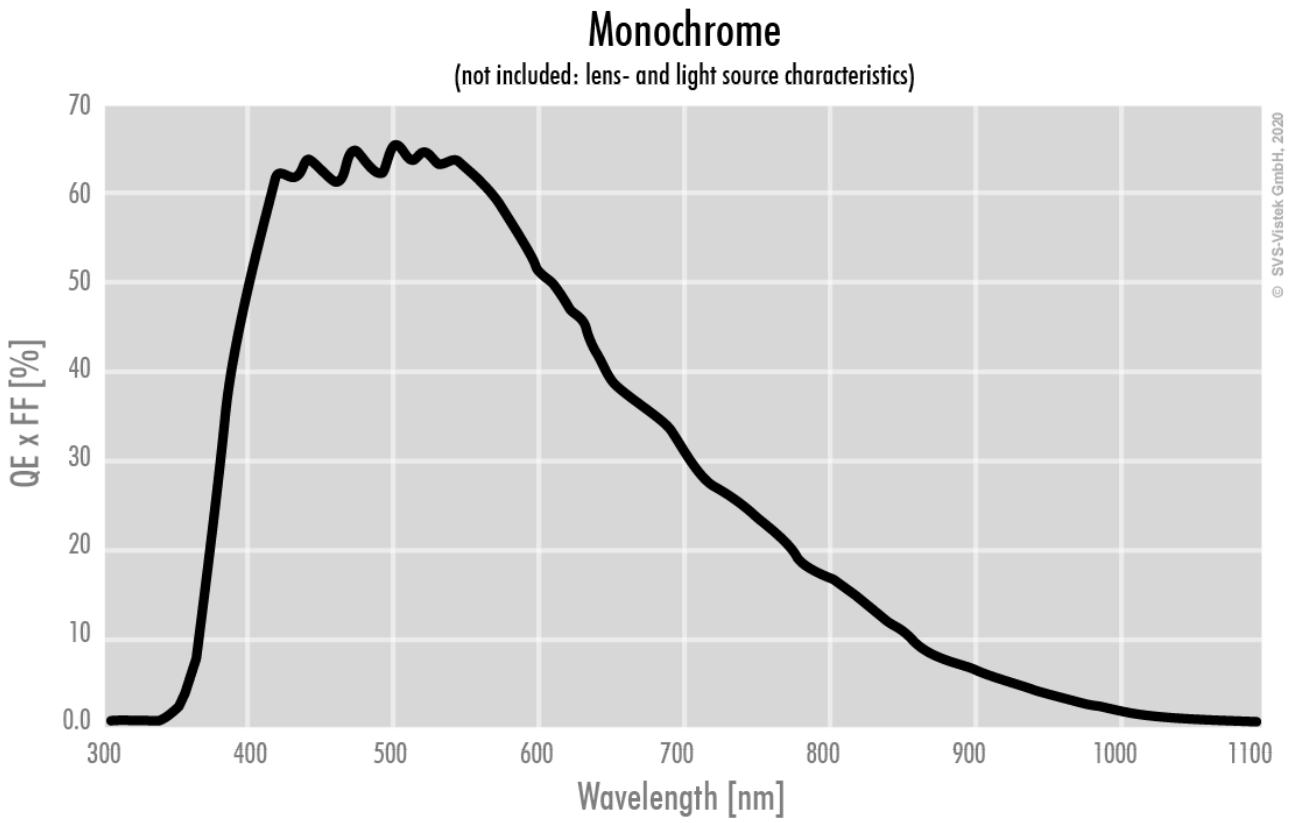
FW features - image control

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

FW features - camera control

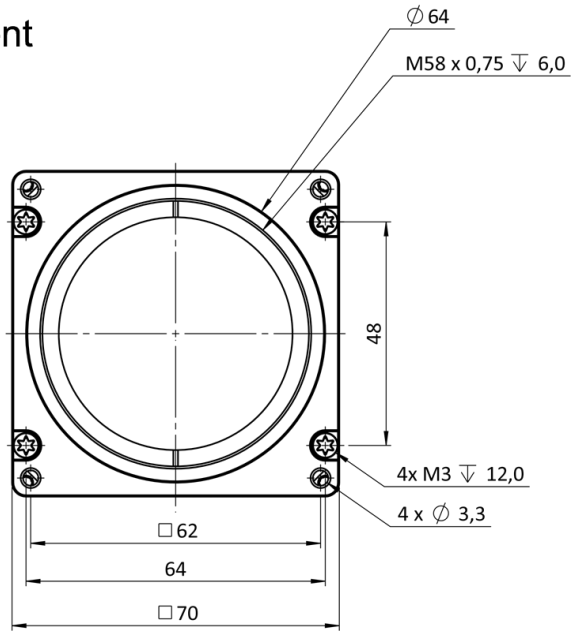
Trigger modes/sync	INTERNAL,SOFTWARE,EXTERNAL
Camera control features	PoCxP, User Sets, PWM(4), Sequencer,

Quantum Efficiency

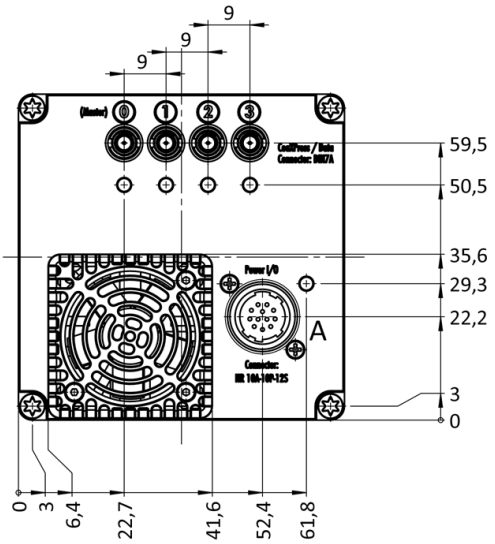


Technical Drawing

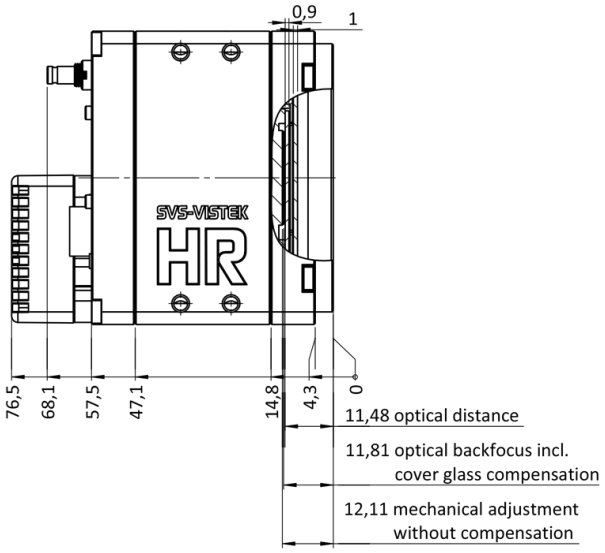
front



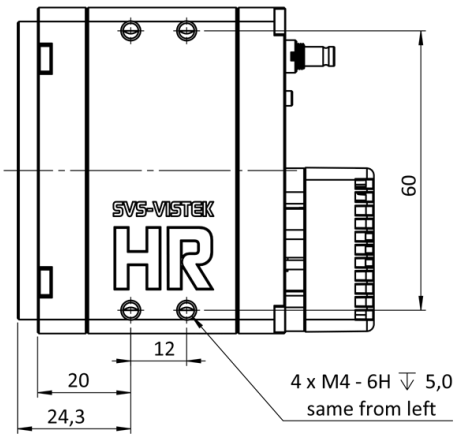
back



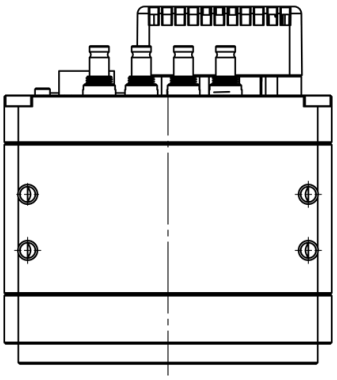
cross section



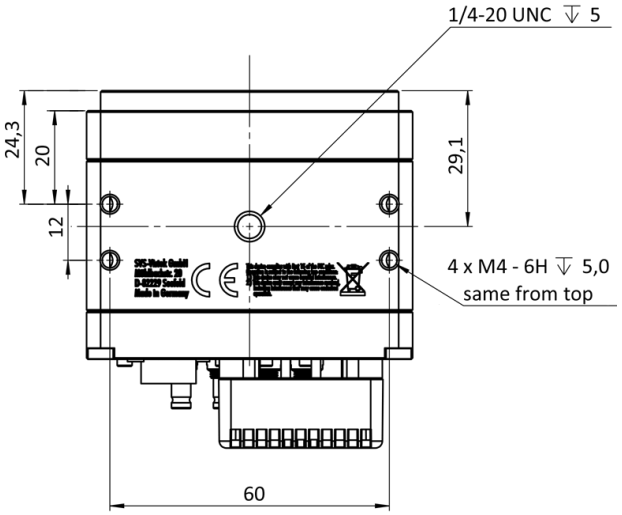
right side



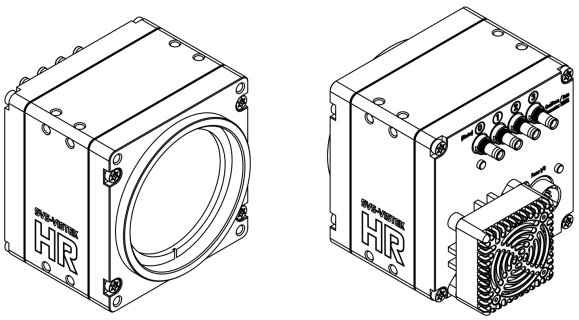
top



bottom

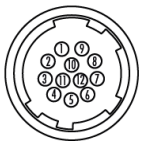


3D



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)