Allied Vision



HR CoaXPress

hr342CCX

General

Model	hr342CCX
Product code	F004073
Product series	HR CoaXPress
Status	Available

Sensor

Sensor type	Area scan
Chroma	Color
Spectrum	Visible
Spectral range	400 nm to 1000 nm
Resolution	6,464 × 4,852 (31.40 MP)
Sensor model	Sony IMX342
Sensor architecture (material)	cmos
Shutter type(s)	Global shutter (GS)
Sensor size	22.3 × 16.74 mm (27.88 mm, Type APS-C)
Pixel size	3.45 µm × 3.45 µm

Pixel formats

Sensor bit depth	8-bit, 12-bit
RGB pixel formats	bayer8, bayer12

Imaging performance

Dynamic range	70.5 dB
SNR	39.9 dB

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Timing and gain

Max. frame rate	35.7 fps
Exposure time	19 µs to 60 s
Gain	0.0 dB to 48.0 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,
I/O connector	12-pin Hirose HR10A-10P-12S
Power supply	10 to 25VDC, Power over CoaXPress
Power consumption	External: 12 W (typical)

Operating conditions

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

Mechanical properties

Body dimensions (L x W x H in mm)	78 × 70 × 70
Filter/protection glass	N-BK7 - AR coating
IP class	IP30
Lens mount(s)	M58x0.75
Weight	400 g

On-board memory and FPGA

Non-volatile memory (Flash)	160 MByte

Interfaces

Digital interface	cxp-6 with 4 connections
Interface connector	(Din1.0/2.3)
Vision standard	CoaXPress 1.0

FW features - image control

Exposure modes	manual, auto
Gain modes	auto, manual

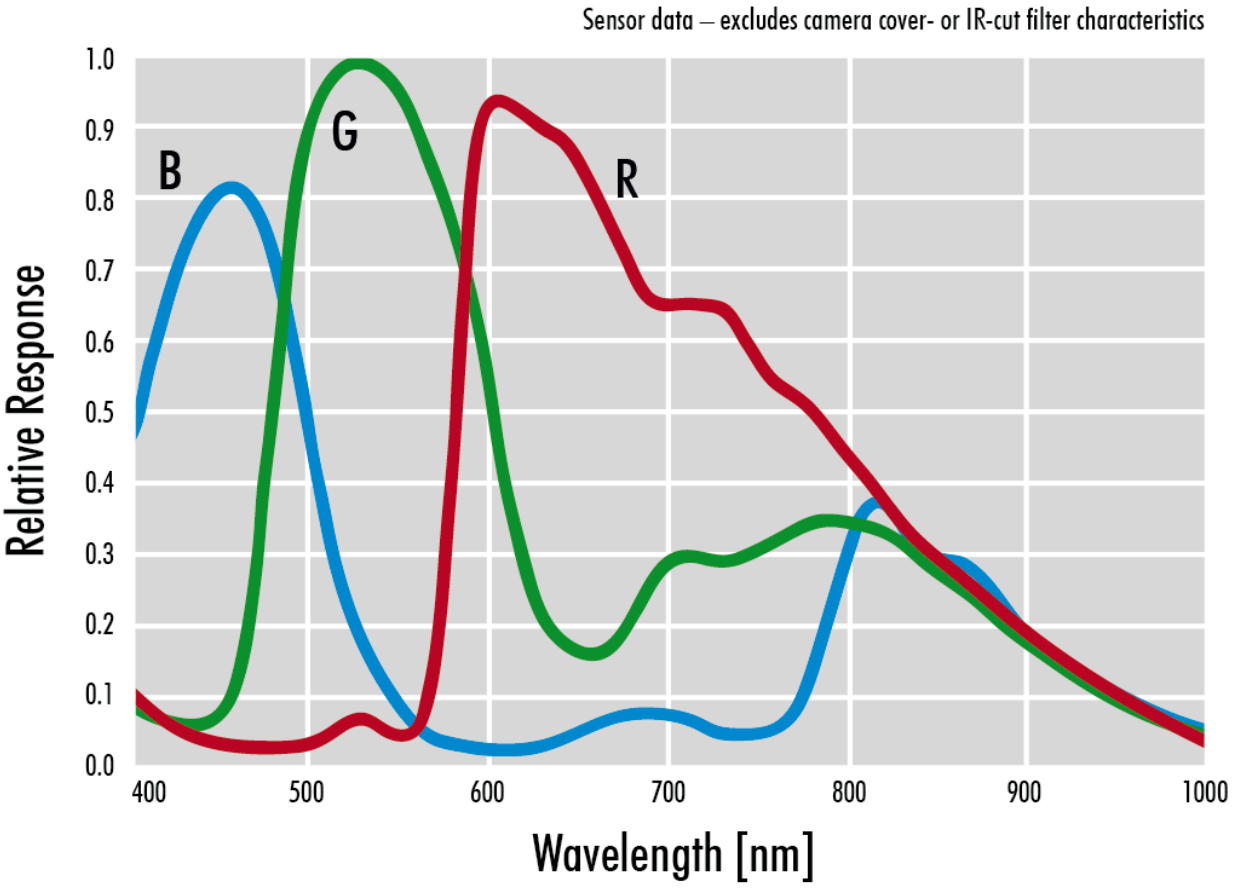
FW features - image control

White balance modes	auto, manual
Image control features	roi, lut, mirror-image, dpc, shading-correction, ffc

FW features - camera control

Trigger modes/sync	internal, software, external
Camera control features	PoCxP, User Sets, PWM(4), Sequencer,

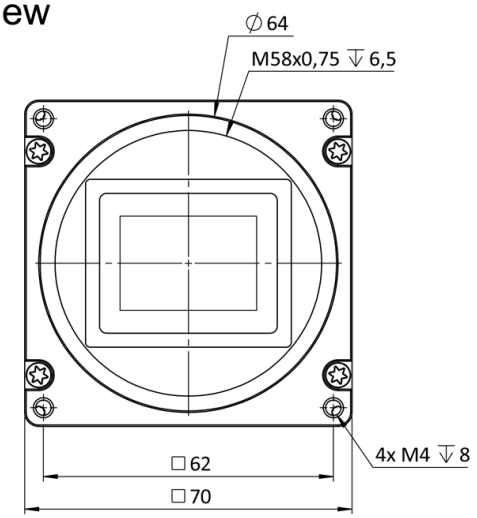
Quantum Efficiency



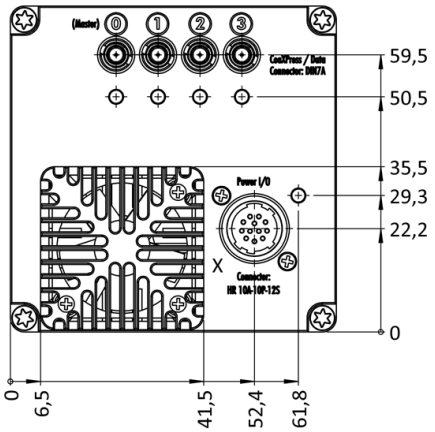
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Technical Drawing

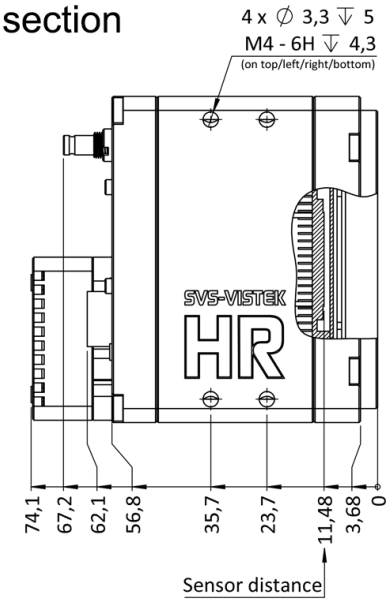
front view



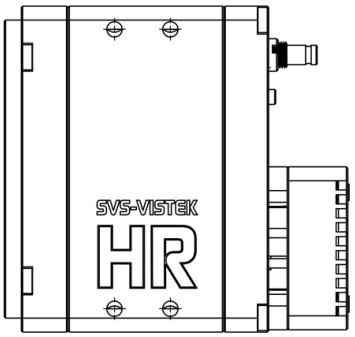
back view



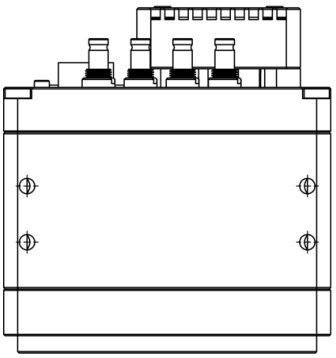
cross section



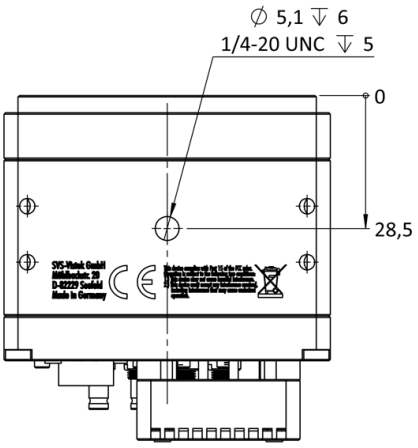
right view



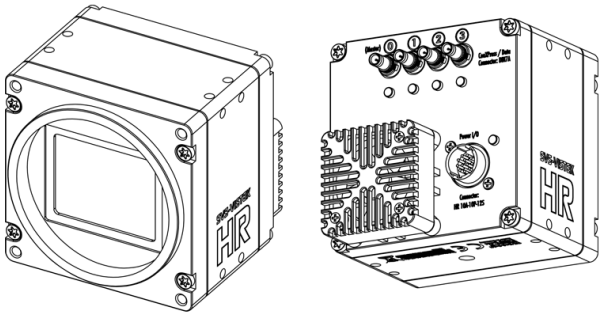
top view



bottom view

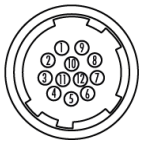


3D view



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)