Allied Vision



HR 10GigE

hr387MXGE

Allgemein

Modell	hr387MXGE
Produktcode	F004075
Produktserie	HR 10GigE
Status	Available

Sensor

Sensortyp	Area scan
Chroma	Mono
Spektrum	Visible
Spektralbereich	400 nm to 1000 nm
Auflösung	5,440 × 3,076 (16.70 MP)
Sensormodell	Sony IMX387
Sensorarchitektur (Material)	cmos
Verschlusstyp(en)	Global shutter (GS)
Sensorgröße	18.77 × 10.61 mm (21.56 mm, Type 4/3)
Pixelgröße	3.45 µm × 3.45 µm

Pixelformate

Sensor-Bittiefe	8-bit, 12-bit
Monochrome Pixelformate	mono8, mono12

Timing und Verstärkung

Max. Bildrate	56.4 fps
Belichtungszeit	21 µs to 60 s
Verstärkung	0.0 dB to 48.0 dB

I/Os und Stromversorgung

Nicht-isolierte Leitungen	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,
Spezifische nicht-isolierte Leitungen	1 x RS232 input, 1 x RS232 output, 0 x RS422 input, 0 x RS422 output,
Optisch isolierte Leitungen	1 x Optical isolated input, 0 x Optical isolated input,
I/O-Anschluss	12-pin Hirose HR10A-10P-12S
Stromversorgung	10 to 25VDC, Power over Ethernet (POE+, in option -P)
Stromverbrauch	External: 15.5 W (typical)

Mechanische Eigenschaften

Gehäuseabmessungen (L x B x H in mm)	80 × 70 × 70
Filter-/Schutzglas	N-BK7 - AR coating 380-850nm
IP-Klasse	IP30
Objektivanschluss/-anschlüsse	M58x0.75
Gewicht	400 g

Onboard-Speicher und FPGA

Bildpuffer (RAM)	448 MByte
Nichtflüchtiger Speicher (Flash)	32 MByte

Schnittstellen

Digitale Schnittstelle	10gige
Schnittstellenanschluss	(RJ-45)
Vision-Standard	GigE Vision 2.0

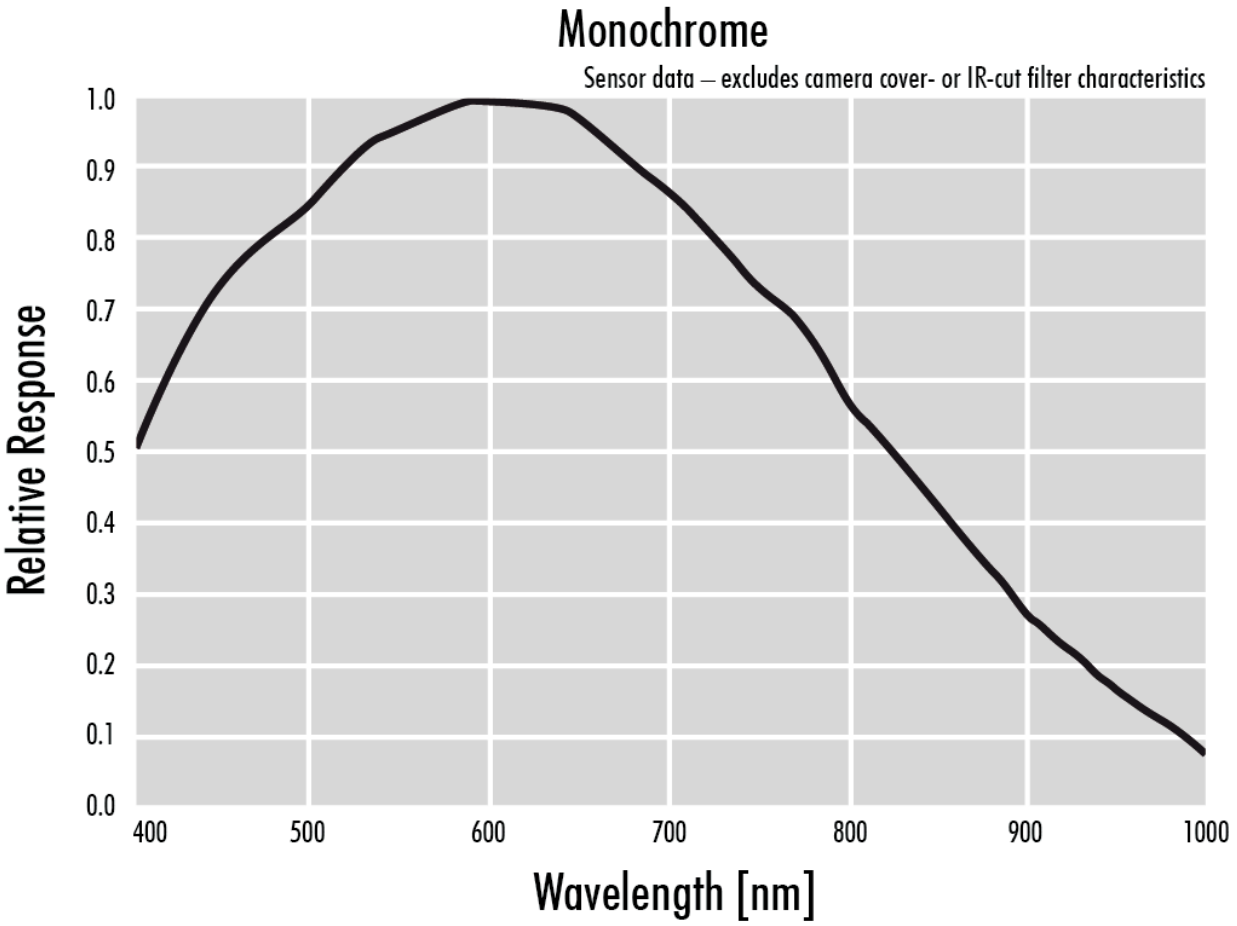
FW-Funktionen – Bildsteuerung

Belichtungsmodi	manual, auto, external
Verstärkungsmodi	auto, manual
Bildsteuerungsfunktionen	lut, mirror-image, dpc, shading-correction, ffc

FW-Funktionen – Kamerasteuerung

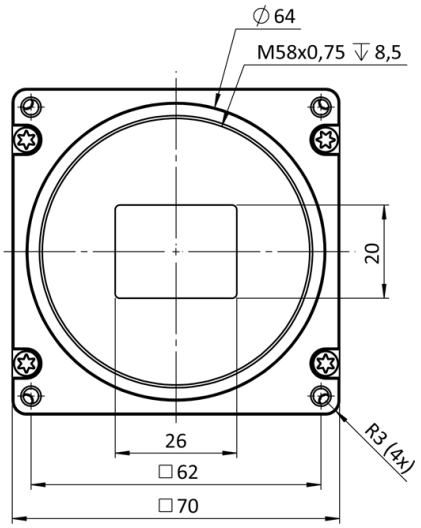
Triggermodi/Synchronisation	internal, software, external
Kamerasteuerungsfunktionen	User Sets, POE, PWM(4), Sequencer,

Quanteneffizienz

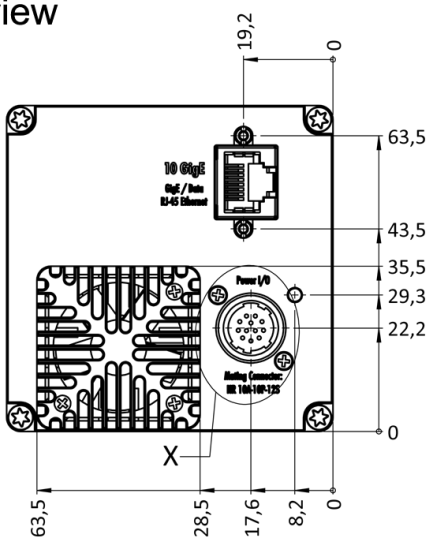


Technische Zeichnung

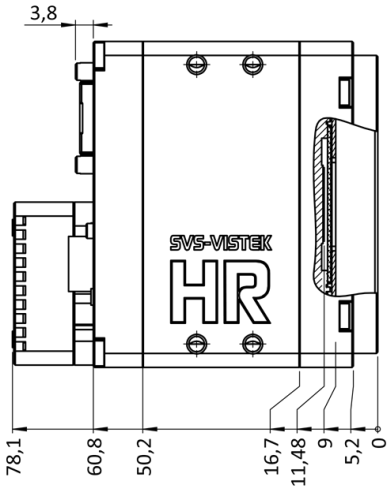
front view



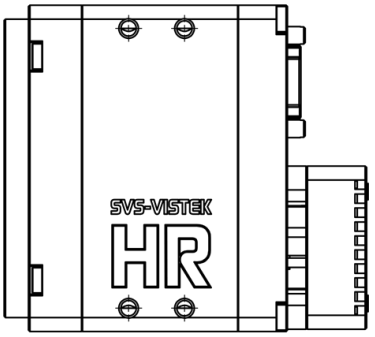
back view



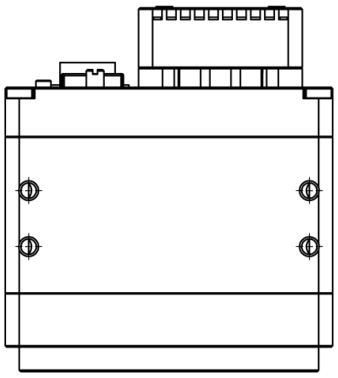
cross section



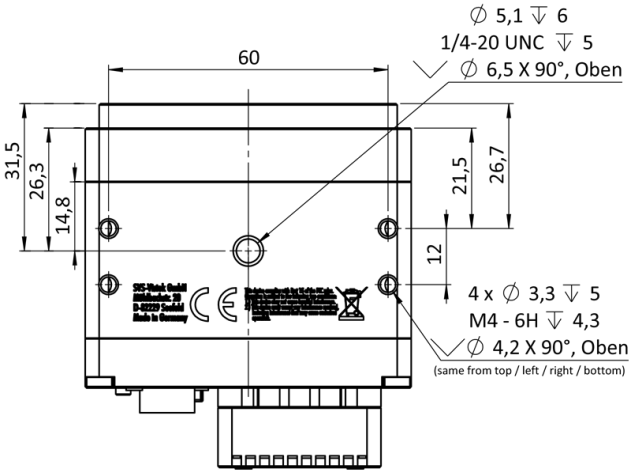
right view



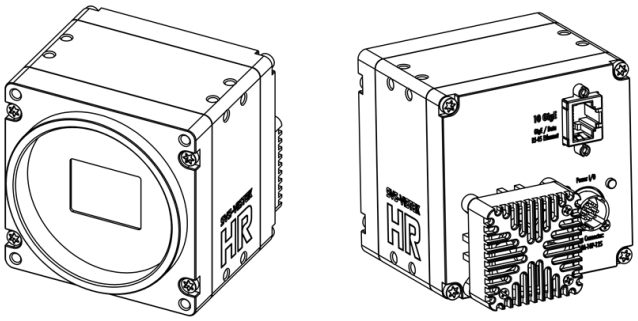
top view



bottom view

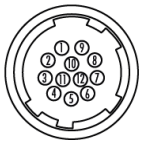


3D view



I/O-Pin-Belegung

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)