Allied Vision



HR 10GigE

hr51MXGE

Generale

Modello	hr51MXGE
Codice prodotto	F004100
Serie di prodotti	HR 10GigE
Stato	Available

Sensore

Tipo di sensore	Area scan
Croma	Mono
Spettro	Visible
Gamma spettrale	400 nm to 1000 nm
Risoluzione	8,424 × 6,032 (51.00 MP)
Modello sensore	Gpixel GMAX4651
Architettura sensore (Materiale)	cmos
Tipi di otturatore	Global shutter (GS)
Dimensione sensore	38.75 × 27.75 mm (47.66 mm, Type Full Frame)
Dimensione pixel	4.60 µm × 4.60 µm

Formati pixel

Profondità bit sensore	8-bit, 12-bit
Formati pixel monocromatici	mono8, mono12

Prestazioni di imaging

Gamma dinamica	65 dB
SNR	42.6 dB

Tempi e guadagno

Frequenza fotogrammi max.	23.7 fps
Tempo di esposizione	17 µs to 60 s
Guadagno	0.0 dB to 40.0 dB

I/O e alimentazione

Linee non isolate	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,
Linee non isolate specifiche	1 x RS232 input, 1 x RS232 output, 0 x RS422 input, 0 x RS422 output,
Linee otticamente isolate	1 x Optical isolated input, 0 x Optical isolated input,
Connettore I/O	12-pin Hirose HR10A-10P-12S
Alimentazione	10 to 25VDC, Power over Ethernet (POE+, in option -P)
Consumo energetico	External: 17 W (typical)

Proprietà meccaniche

Dimensioni custodia (L x P x A in mm)	77 × 70 × 70
Vetro filtro/protezione	N-BK7 - AR coating 380-850nm
Classe IP	IP30
Attacco/i obiettivo	M58x0.75
Peso	380 g

Memoria onboard e FPGA

Buffer immagine (RAM)	448 MByte

Interfacce

Interfaccia digitale	10gige
Connettore interfaccia	(RJ-45)
Standard Vision	GigE Vision 2.0

Funzioni FW – Controllo immagine

Modalità di esposizione	manual, auto
Modalità di guadagno	auto, manual
Funzioni di controllo immagine	roi, lut, mirror-image, dpc, shading-correction, ffc

Funzioni FW – Controllo fotocamera

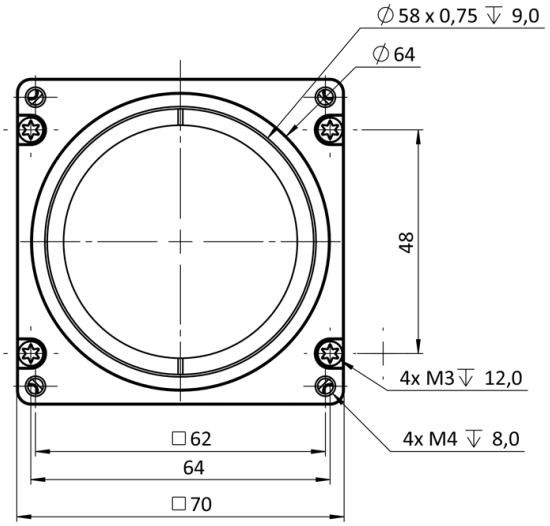
Modalità di trigger/sincronizzazione	internal, software, external
Funzioni di controllo della fotocamera	User Sets, POE, PWM(4), Sequencer,

Efficienza quantica

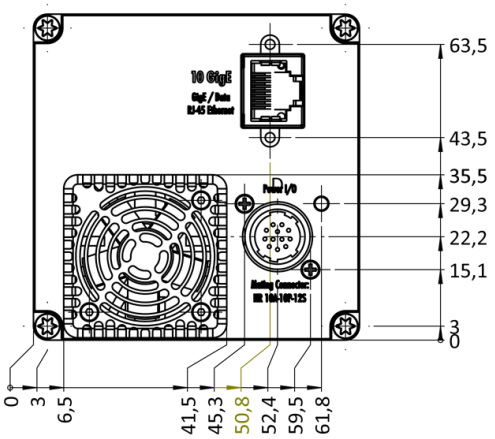


Disegno tecnico

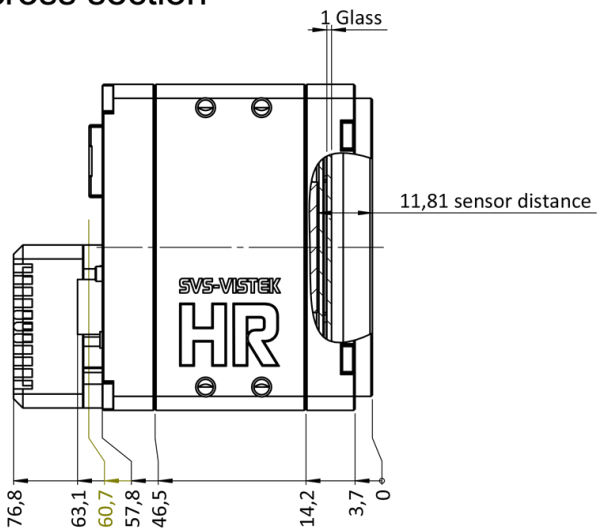
front



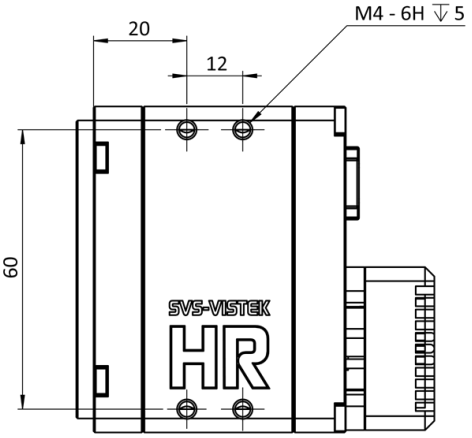
back



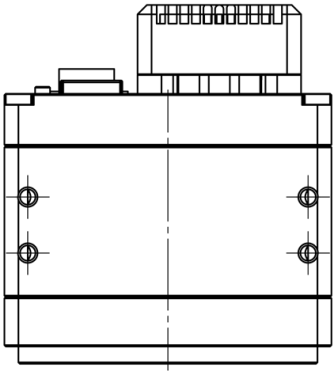
cross section



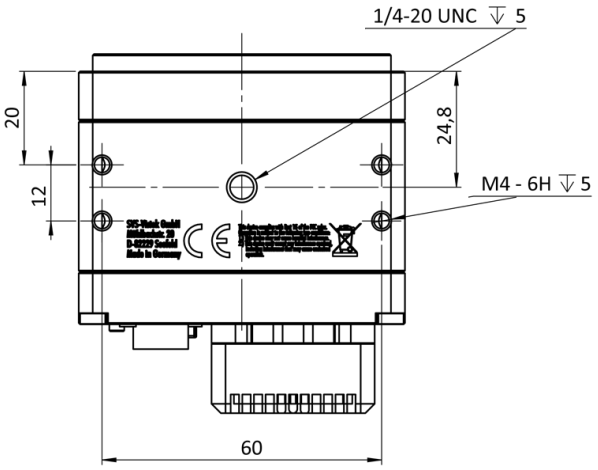
right side



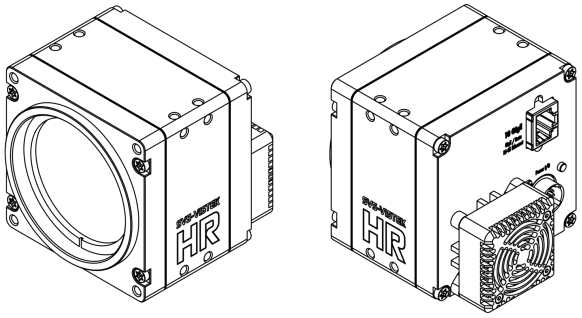
top



bottom

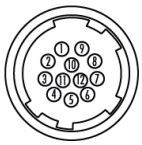


3D



Assegnazione pin I/O

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)