Allied Vision

FXO 10GigE

fxo541CXGE



Generale

Modello	fxo541CXGE
Codice prodotto	F002093
Serie di prodotti	FXO 10GigE
Stato	Available

Sensore

Tipo di sensore	Area scan
Croma	Color
Spettro	Visible
Gamma spettrale	400 nm to 1000 nm
Risoluzione	4,504 × 4,504 (20.30 MP)
Modello sensore	Sony IMX541
Architettura sensore (Materiale)	cmos
Tipi di otturatore	Global shutter (GS)
Dimensione sensore	12.34 × 12.34 mm (17.45 mm, Type 1.1)
Dimensione pixel	2.74 µm × 2.74 µm

Formati pixel

Profondità bit sensore	12-bit, 8-bit
Formati pixel RGB	bayer12, bayer8

Prestazioni di imaging

Gamma dinamica	72 dB
SNR	39.14 dB

Tempi e guadagno

Frequenza fotogrammi max.	35.7 fps
Tempo di esposizione	21 µs to 60 s
Guadagno	0.0 dB to 48.0 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
Consumo energetico	External: 9 W (typical)

Condizioni operative

Temperatura operativa	-10 °C to 60 °C (custodia)
Humidity	10 % to 90 % (non-condensing)

Proprietà meccaniche

Dimensioni custodia (L x P x A in mm)	76 × 50 × 50
Vetro filtro/protezione	IR-Cut - 680nm
Classe IP	IP30
Attacco/i obiettivo	C-Mount
Peso	240 g

Memoria onboard e FPGA

Buffer immagine (RAM)	896 MByte
Memoria non volatile (Flash)	32 MByte

Interfacce

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

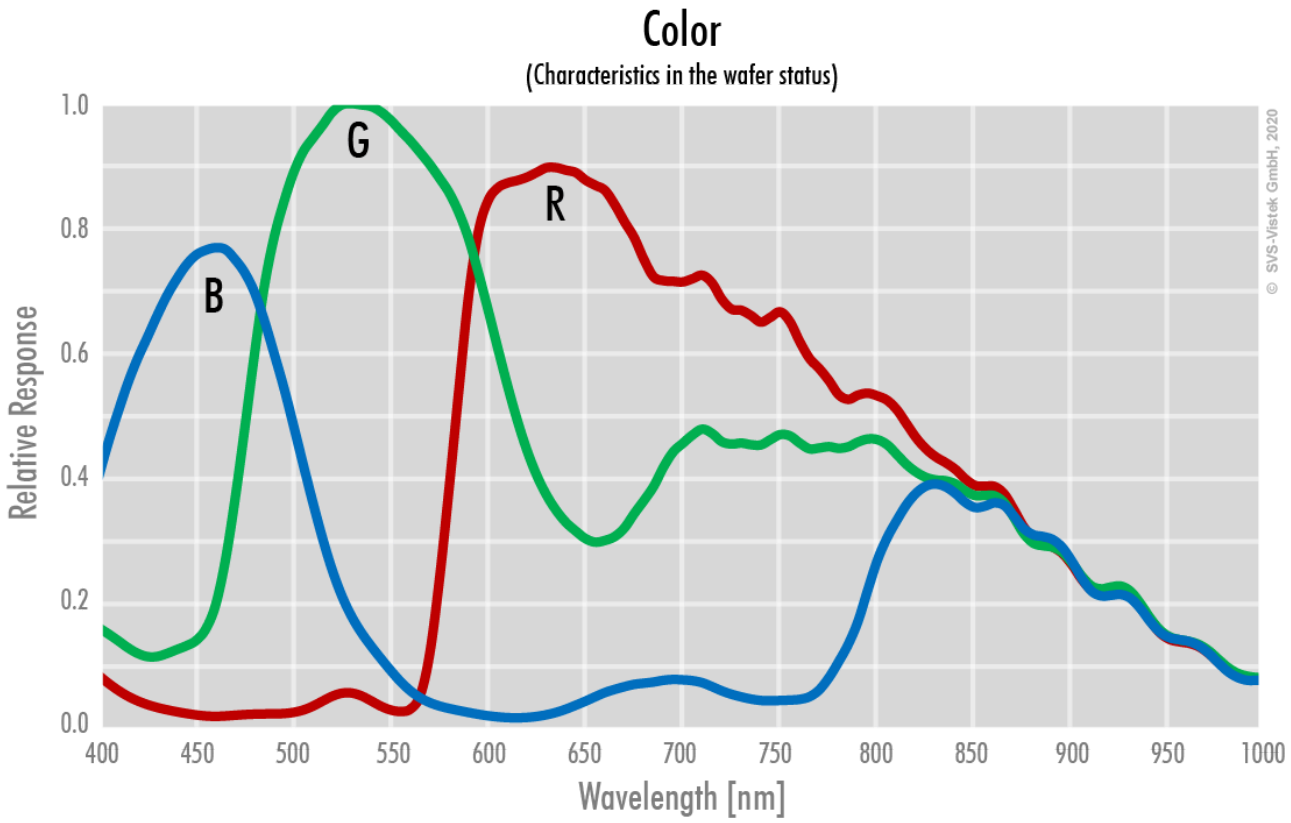
Funzioni FW – Controllo immagine

Modalità di esposizione	auto, external, manual
Modalità di guadagno	auto, manual
Modalità di bilanciamento del bianco	auto, manual
Funzioni di controllo immagine	color-transformation, lut, mirror-image, roi

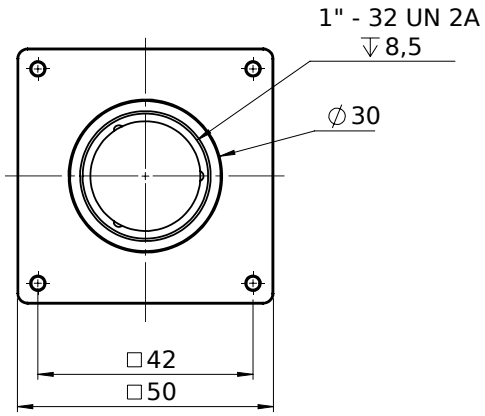
Funzioni FW – Controllo fotocamera

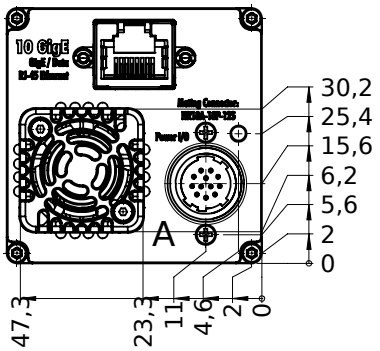
Modalità di trigger/sincronizzazione	external, internal, software

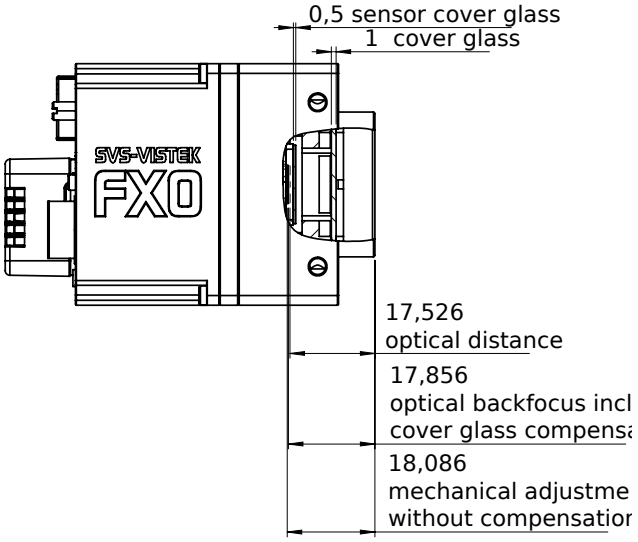
Efficienza quantica

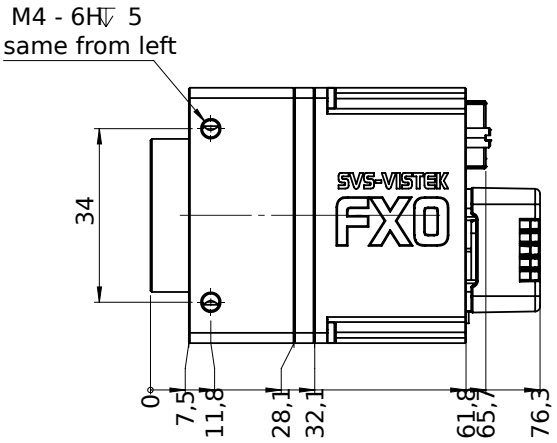


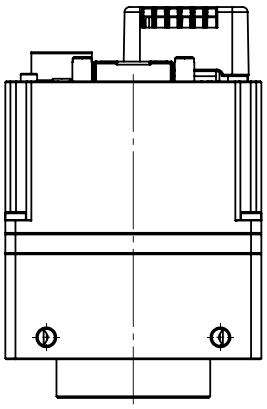
Disegno tecnico

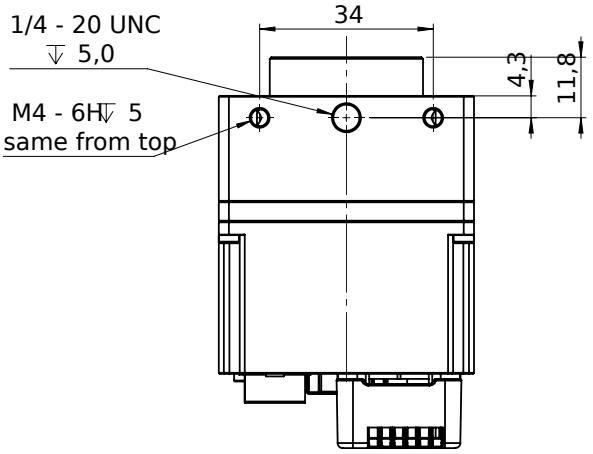


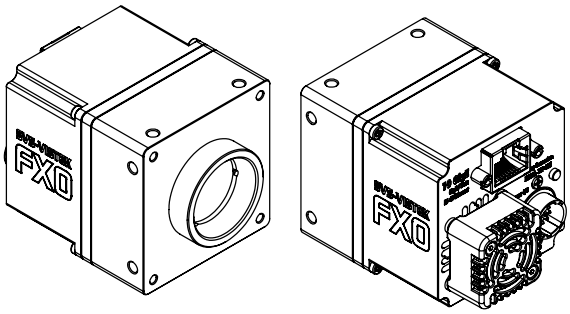






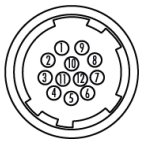






Assegnazione pin I/O

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)