Allied Vision



FXO CoaXPress

fxo542MCX

Generale

Modello	fxo542MCX
Codice prodotto	F002088
Serie di prodotti	FXO CoaXPress
Stato	Available

Sensore

Tipo di sensore	Area scan
Croma	Mono
Spettro	Visible
Gamma spettrale	400 nm to 1000 nm
Risoluzione	5,312 × 3,032 (16.10 MP)
Modello sensore	Sony IMX542
Architettura sensore (Materiale)	cmos
Tipi di otturatore	Global shutter (GS)
Dimensione sensore	14.55 × 8.31 mm (16.76 mm, Type 1.1)
Dimensione pixel	2.74 µm × 2.74 µm

Formati pixel

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

Prestazioni di imaging

Gamma dinamica	72 dB
SNR	39.9 dB

Tempi e guadagno

Frequenza fotogrammi max.	45.6 fps
Tempo di esposizione	10 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 CoaXPress
Consumo energetico	External: 9 W (typical)

Condizioni operative

Temperatura operativa (Custodia)	-10 °C to 65 °C

Proprietà meccaniche

Dimensioni custodia (L x P x A in mm)	70 × 50 × 50
Vetro filtro/protezione	K9 - AR coating - 400-850nm
Classe IP	IP30
Attacco/i obiettivo	C-Mount
Peso	240 g

Memoria onboard e FPGA

Memoria non volatile (Flash)	32 MByte

Interfacce

Interfaccia digitale	cxp-12 with 1 connection
Connettore interfaccia	(micro-BNC)
Standard Vision	CoaXPress 2.0

Funzioni FW – Controllo immagine

Modalità di esposizione	manual, auto, external
Modalità di guadagno	auto, manual

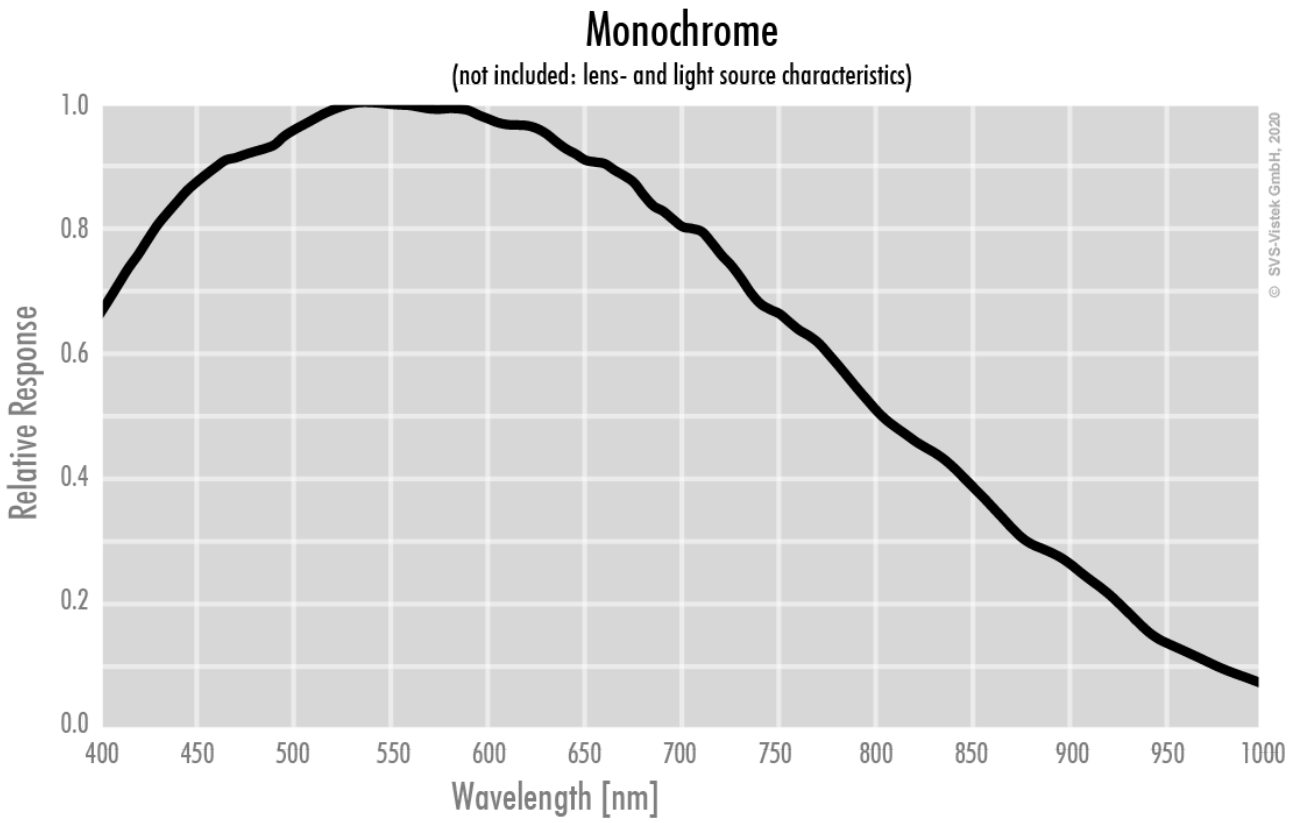
Funzioni FW – Controllo immagine

Funzioni di controllo immagine	roi, lut, mirror-image, dpc, shading-correction, ffc

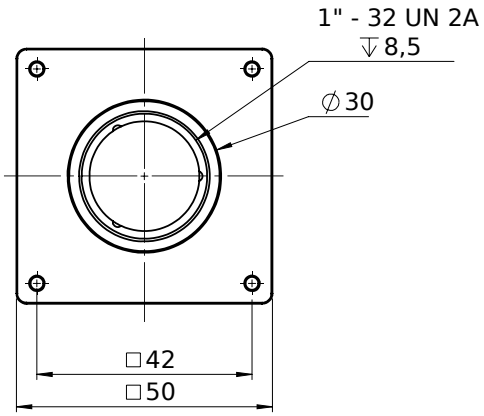
Funzioni FW – Controllo fotocamera

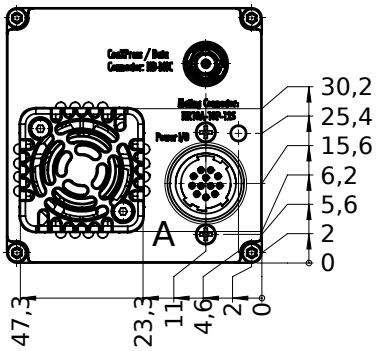
Modalità di trigger/sincronizzazione	internal, software, external
Funzioni di controllo della fotocamera	PoCxP, User Sets, PWM(4), Sequencer,

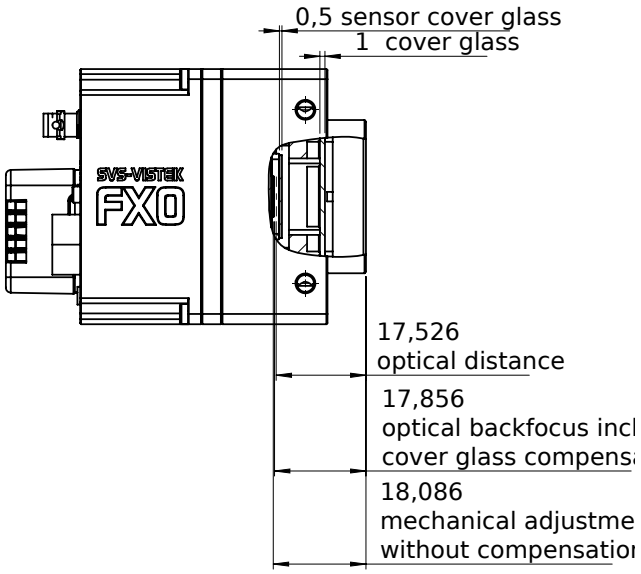
Efficienza quantica

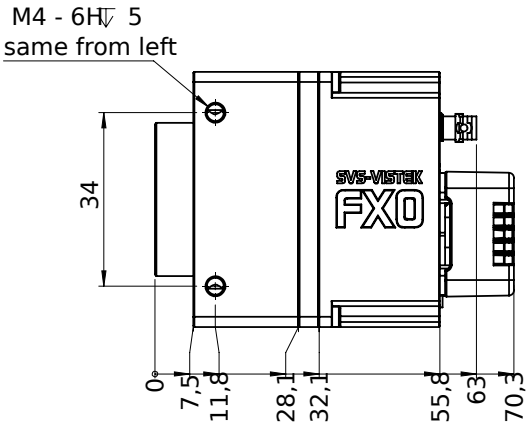


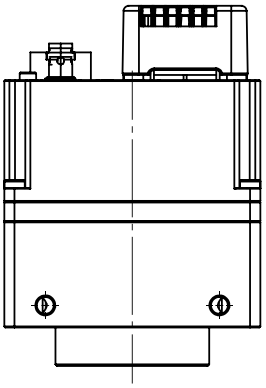
Disegno tecnico

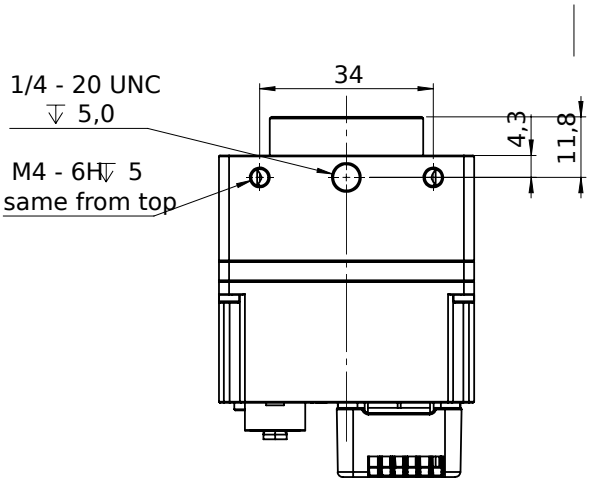


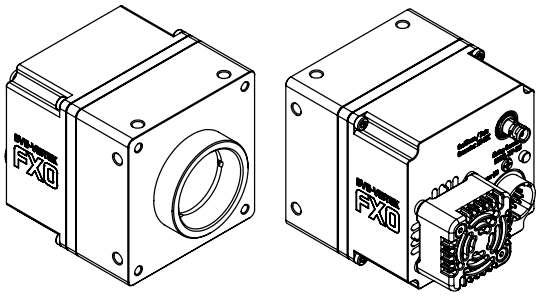






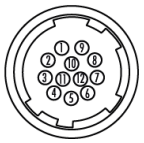






Assegnazione pin I/O

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)