



EXO Polarized

exo250ZU3

Generale

Modello	exo250ZU3
Codice prodotto	F001926
Serie di prodotti	EXO Polarized
Stato	Available

Sensore

Tipo di sensore	Area scan
Croma	Mono polarized
Spettro	Visible
Gamma spettrale	400 nm to 1000 nm
Risoluzione	2,448 × 2,048 (5.00 MP)
Modello sensore	Sony IMX250 Polarizer
Architettura sensore (Materiale)	cmos
Tipi di otturatore	Global shutter (GS)
Dimensione sensore	8.45 × 7.07 mm (11.01 mm, 11.1mm (Type 2/3))
Dimensione pixel	3.45 µm × 3.45 µm

Formati pixel

Profondità bit sensore	8-bit, 12-bit
Formati pixel monocromatici	mono8, mono12packed

Prestazioni di imaging

Gamma dinamica	72 dB
SNR	40 dB

Tempi e guadagno

Frequenza fotogrammi max.	75 fps
Tempo di esposizione	21 μ s 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,
Alimentazione	10 to 25VDC
Consumo energetico	External: 4.5 W (typical)

Condizioni operative

Temperatura operativa (Custodia)	-10 °C to 60 °C
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Proprietà meccaniche

Dimensioni custodia (L x P x A in mm)	43 × 50 × 50
Vetro filtro/protezione	K9 - AR coating - 400-850nm
Classe IP	IP40
Attacco/i obiettivo	C-Mount
Peso	138 g

Memoria onboard e FPGA

Buffer immagine (RAM)	192 MByte
Memoria non volatile (Flash)	32 MByte

Interfacce

Interfaccia digitale	usb3.0
Connettore interfaccia	(Micro-B)

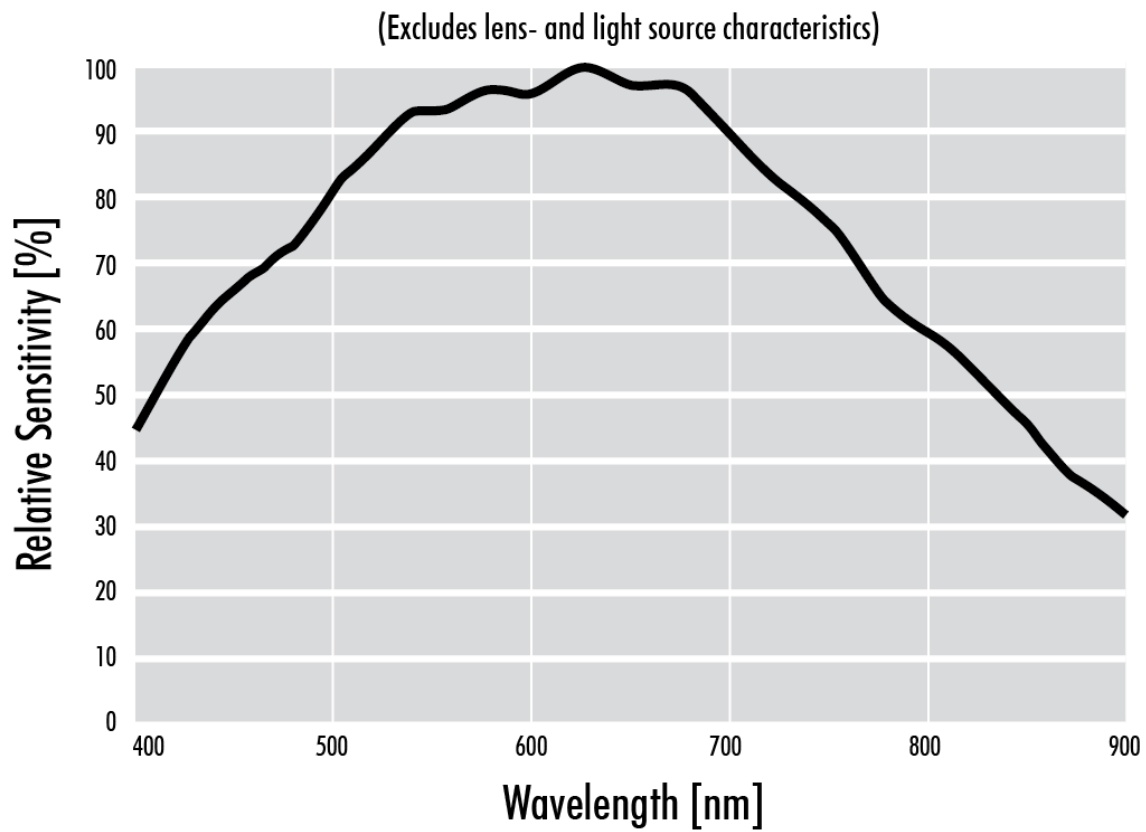
Funzioni FW – Controllo immagine

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

Funzioni FW – Controllo fotocamera

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

Efficienza quantica



Technical drawing of a square plate with a central circular hole and four corner holes. The overall dimensions are 50 mm by 50 mm. The central hole has a diameter of $\varnothing 30$. The distance from the center of the central hole to the center of each corner hole is 14,18 mm. The distance between the centers of opposite corner holes is 42,42 mm. The distance from the outer edge of the plate to the center of each corner hole is 10,41 mm. The active area (aa) is indicated as the area within the 42,42 mm dimension.

Top view of the USB3-DIG-125 module. The module is rectangular with rounded corners and four mounting holes at the corners. Dimensions are indicated: a width of 11 and a height of 41. Component labels include "USB3 / Data Micro" pointing to the top connector, "Power / 0" pointing to a circular feature on the right, and "Heating Connector: HE 106-108-125" pointing to a circular feature at the bottom. A vertical dimension of 12.5 is shown on the right side, and a horizontal dimension of 9.35 is shown on the right side.

Technical drawing of the SVS-VISTEK EXO device showing dimensions:

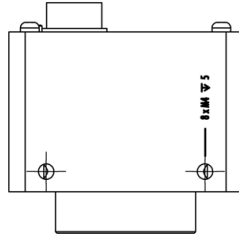
- Top width: 2,1
- Top left corner radius: R4
- Top right corner radius: R1 Glass
- Left side height: 11,8
- Bottom left corner radius: R49,243
- Bottom center height: 42,97
- Right side height: 17,5
- Bottom right corner radius: R8,85
- Bottom right corner radius: R0

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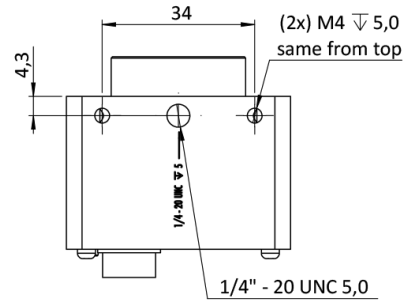
4,3

(2x) M4 ∇ 5,0
same from left

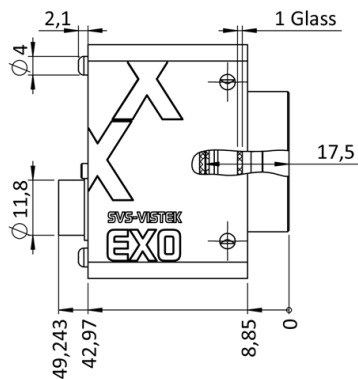
top



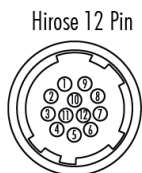
bottom



cross section



Assegnazione pin I/O



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)