

High-Speed, High-Resolution Industrial Camera Technology

IC-X25P-CXP

25MP @ 80 FPS

CoaXPress



- 25 Mega Pixels @ 80 fps
- Resolution 5120 x 5120
- Global Shutter 1usec~10sec
- Optimized PRNU / DP Correction
- Sub-Sampling
- CXP-6, Four (4) Channel
- True 8/10 Bit Data Output
- Exposure / Strobe Delay
- GenICam, PoCXP Support
- F / M42 / M58 / M72 / LM-Mount

Specifications

Sensor	High Speed CMOS Image Sensor - Python 25K
Resolution	5120(H) x 5120(V) Active Pixels
Pixel Size	4.5µm(H) x 4.5µm(V)
Frame Rate	80Hz @ 8Bit CXP-6, 4CH
Active Area Size	Diameter 35mm, 23.04mm(H) x 23.04mm(V)
Output Format	8 / 10Bit, Monochrome / Bayer Color / NIR
CoaXPress Interface	CXP-6 : 1, 2 and 4 Links, GenICam XML
Dynamic Range	59 dB
Full Well Capacity	12000 e ⁻
SNR	41 dB
Sensitivity	5.8 V/lux.s (550 nm)
PLS	<1/5000
Pixel FPN / PRNU	<0.9 LBS10 / 1%
Exposure Mode	Continuous, Trigger Timed, Trigger Width
Exposure Control	Programmable from 1 µsec to 10 sec in 1 µsec steps
Trigger Control	Programmable Period in 1 µsec steps, External PWC
Analog Control	Black Offset (0 to 256 in 1 steps)
Digital Control	Digital Gain (1 to 10 in 0.001 steps), Gamma
Image Control	Auto & Man. Defect Pixel Correction
Special Functions	Programmable Exposure & Strobe Delay Programmable Sub-sampling User PRNU Calibration
Lens Mounts	F-Mount, M42, M58, M72, LM(Leica M), Custom OEM
Operating Temperature	0°C ~ 40°C, ext. temp. possible with reduced performance
Storage Temperature	-10°C ~ 70°C
Relative Humidity	20% ~ 90% non-condensing
Shock / Vibration	25G (Half sine 6-10ms XYZ) / 10G (5-150Hz, 1min, XYZ)
Power Requirements	24VDC ± 10%, 20W, ≤ 50mV Ripple
Power over CXP	PoCXP : 24VDC @ 20W, min. required CXP Links = 2 ch (CXP1,2)
Dimensions (H x W x L)	80mm x 80mm x 36.55mm without lens mount and connectors
Weight	400g (without lens mount), 540g (include F-Mount)
Compliance	CoaXPress 1.0, GenICam SFNC, RoHS, CE, FCC

* All specifications subject to change without notice.

Spectral Response

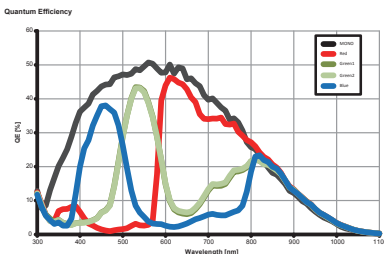


Figure 3. Quantum Efficiency Curve for Mono and Color

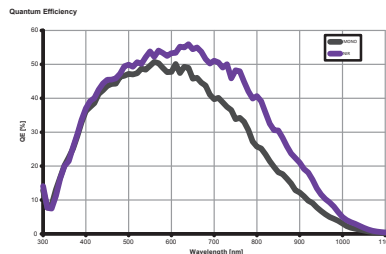
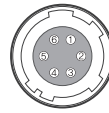


Figure 4. Quantum Efficiency Curve for Standard and NIR Mono

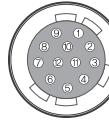
Connector



Power Connector

PIN No.	I/O	Signal Name
1, 2, 3	VCC	+24VDC
4, 5, 6	GND	Ground

◀Connector: Hirose HR10A-7R-6S ▶Mating Connector: Hirose HR10A-7P-6P

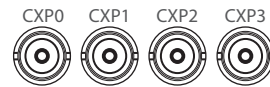


Control Connector

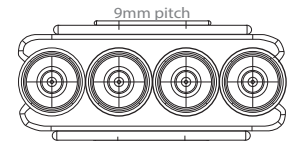
PIN No.	I/O	Signal Name	PIN No.	I/O	Signal Name
1	Input	+Trigger	3	Output	+Strobe
2	Input	-Trigger	5	GND	Ground
4, 6 - 12	Reserved - Do Not Connect				

◀Connector: Hirose HR10A-10R-12S ▶Mating Connector: Hirose HR10A-10P-12P

CoaXPress Connector

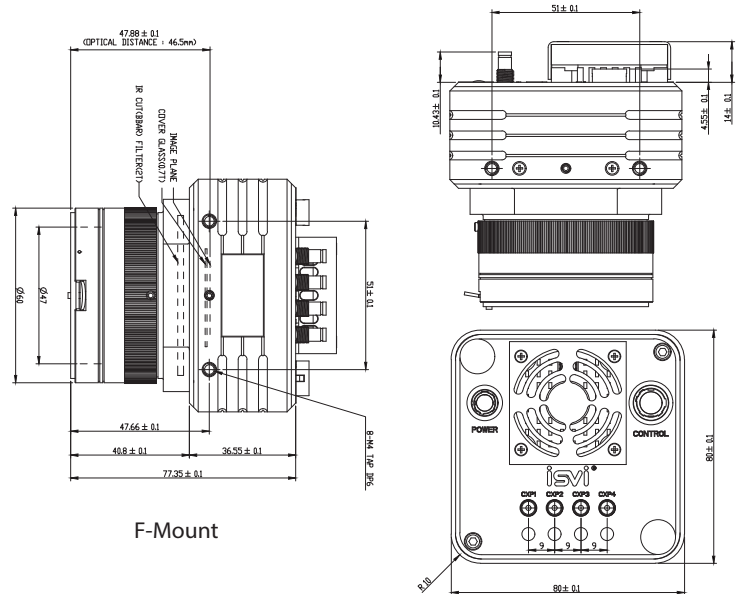


Mating Connector 75Ω DIN 1.0/2.3 Type IEC 61169-29 Standard male type (plug)



4-Multi-Connector Compatible

Dimensions



F-Mount

Ordering

I C - X 25P - CXP - X X X

M = Monochrome
C = Color Bayer CFA
N = NIR

Chroma

FM = F Mount
42 = M42x1.0
58 = M58x0.75
72 = M72x0.75
LM = Leica - M

Lens Mount**

B = BBAR*
I = IR Cut*
N = None

Filter**

* Monochrome standard with BBAR filter
Color Bayer standard with IR Cut filter
** Custom OEM available