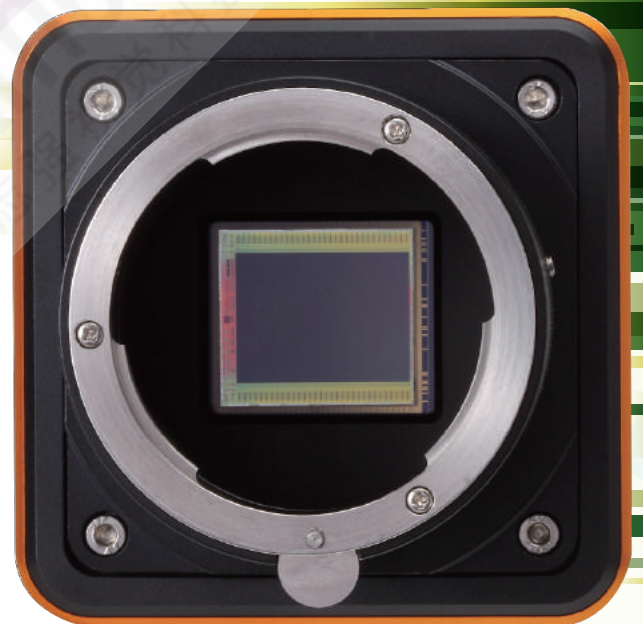


High-Speed, High-Resolution Industrial Camera Technology

IC-X12S-CXP

12MP @ 181 FPS

CoaXPress



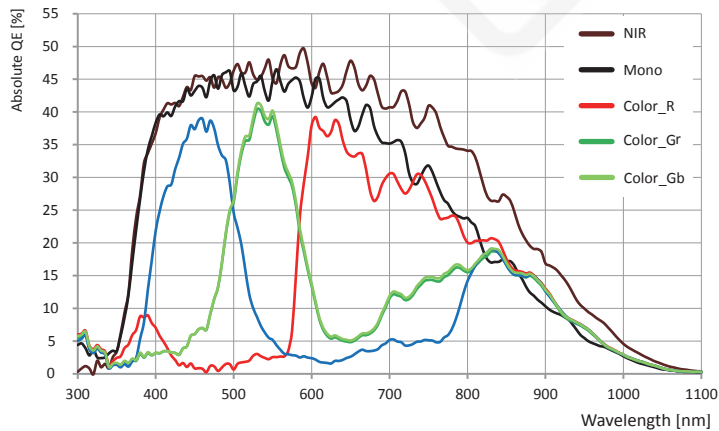
- 12 Mega Pixels @ 181 fps
- Resolution 4096 x 3072
- Global Shutter 1usec~10sec
- DSNU / PRNU / DP Correction
- 2 User Areas for Calibration Storage
- CXP-6, Four (4) Channel
- True 8 Bit Data Output
- Exposure / Strobe Delay
- GenICam, PoCXP Support
- F / M42 / M58 / M72 / LM-Mount

Specifications

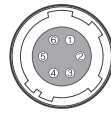
Sensor	High Speed CMOS Image Sensor - CMOSIS CMV12000
Resolution	4096(H) x 3072(V) Active Pixels
Pixel Size	5.5μm(H) x 5.5μm(V)
Frame Rate	181Hz @ 8bit CXP-6 4CH
Active Area Size	Diameter 28.14mm, 22.5mm(H) x 16.9mm(V)
Output Format	8-bit Monochrome, Bayer Color & Ext. NIR
CoaXPress Interface	CXP-3, CXP-6 : 1, 2 and 4 Links, GenICam XML
Dynamic Range	60dB
Full Well Capacity	13500 e ⁻
SNR	> 50dB
Sensitivity	4.64 V/lux.s (with microlenses)
Exposure Mode	Continuous, Trigger Master, 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	Analog Gain, Black Offset
Digital Control	Digital Gain, Gamma
Image Control	Auto & Man. Defect Pixel Correction
Special Functions	Programmable Exposure & Strobe Delay Programmable Region of Interest 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)
MTBF	> 78,000 hrs
Power Requirements	24VDC ± 10%, 18W, ≤ 50mV Ripple
Power over CXP	PoCXP: 24VDC @ 18W, 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



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

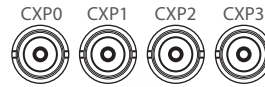


Control Connector

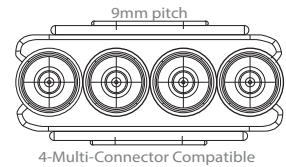
PIN No.	I/O	Signal Name	PIN No.	I/O	Signal Name
1	Input	+Trigger	3	Output	+Strobe
2	Input	-Trigger	5	GND	Ground
4, 6 - 12	Reserved	- Do Not Connect			

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

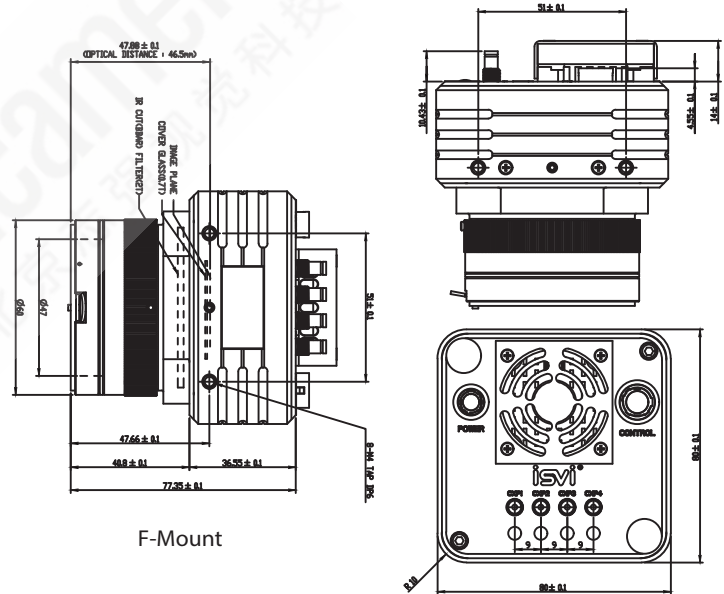
CoaXPress Connector



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



Dimensions



Ordering

IC-X12S-CXP-XXX

M = Monochrome
N = Ext. NIR
C = Color Bayer CFA
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