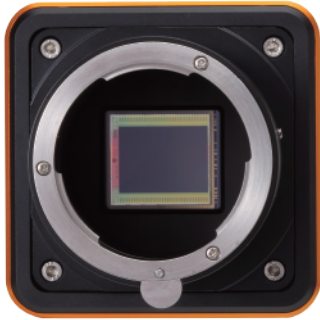


# IC-X12S-CXP

12MP ◊ 4096 x 3072 ◊ CMOS ◊ 181 fps

CoaPress

CXP-6



## HIGH-SPEED HIGH-RESOLUTION CAMERA TECHNOLOGY

- ◊ 12 MP High-Performance CMOS
- ◊ Global Shutter
- ◊ DSNU and PRNU Correction
- ◊ Defect Pixel Correction
- ◊ 2 User Areas for Calibration Storage
- ◊ Exposure Delay
- ◊ Strobe Out Delay
- ◊ Programmable ROI
- ◊ F-Mount, M58, M42, M72, LM Lens Mount
- ◊ 4096 x 3072 Pixels
- ◊ 181 fps
- ◊ 5.5  $\mu\text{m}^2$  pixel size
- ◊ 8-bit Output
- ◊ CXP-3, CXP-6 : 1,2 and 4 Links
- ◊ CoaXPress 1.1 std
- ◊ GenICam XML
- ◊ Monochrome & Bayer Color
- ◊ Compact Size - 80 x 80 x 36.55 mm

[www.isvi-corp.com](http://www.isvi-corp.com)

### ISVI CORP. HEADQUARTERS

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# IC-X12S-CXP

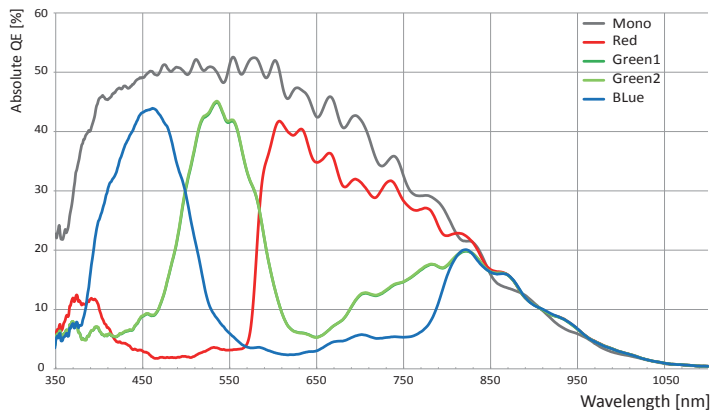


## SPECIFICATIONS

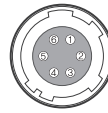
Sensor	High Speed CMOS Image Sensor - CMOSIS CMV12000
Resolution	4096(H) x 3072(V) Active Pixels
Pixel Size	5.5µm(H) x 5.5µm(V)
Frame Rate	181Hz @ 8bit CXP-6 4CH (5464 µsec)
Active Area Size	Diameter 28.14mm, 22.52mm(H) x 16.9mm(V)
Output Format	8-bit Monochrome and Raw Bayer GBRG
CoaXPRESS Interface	CXP-3, CXP-6 : 1, 2 and 4 Links, GenICam XML
Dynamic Range	60dB
Full Well Capacity	13500 e <sup>-</sup>
SNR	> 50dB
Sensitivity	4.64 V/lux.s (with microlenses)
Exposure Mode	Freerun - 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	Gain, Black Offset
Digital Control	Digital Gain, Gamma
Image Control	DSNU & PRNU Correction, Defect Pixel Correction
Special Functions	Programmable Exposure Start Delay Programmable Strobe Pulse Start Delay and Period Programmable Region of Interest
Lens Mounts	F-Mount, M58, M42, M72, LM(Leica M), Custom OEM
Operating Temperature	0°C to +40°C, ext. temp. possible with reduced performance
Storage Temperature	-10°C to +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 1.1, GenICam SFNC, RoHS, CE, FCC

All specifications subject to change without notice. Please visit our website for the latest documentation.

## SPECTRAL RESPONSE



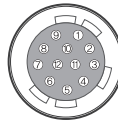
## CONNECTOR



### 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

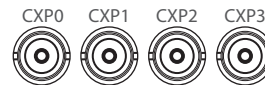


### Control Connector

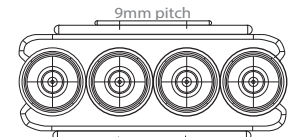
PIN No.	I/O	Signal Name	PIN No.	I/O	Signal Name
1	Input	+Trigger	3	Output	+Strobe
2	Input	-Trigger	5	GND	Ground
4, 6 - 12	Reserved - Do Not Connect				

◦ 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)

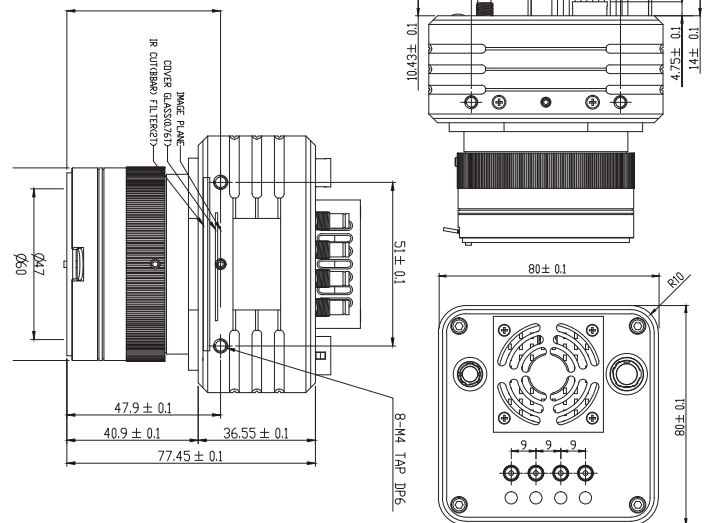


4-Multi-Connector Compatible

## DIMENSIONS

< F Mount >

47.88±0.1  
(OPTICAL DISTANCE : 46.5mm)



## ORDERING

IC-X12S-CXP-XX

**M** = Monochrome  
**C** = Color Bayer CFA  
**Chroma**

**FM** = F-Mount  
**42** = M42x1.0  
**58** = M58x0.75  
**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

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