

VC-12MX2-M/C 330 F

The Fastest Speed & High Resolution CMOS Digital Camera
with CoaXPress 2.0 Interface



The VC-12MX2-M/C 330 F camera is Vieworks' first camera with the CoaXPress 2.0 interface that offers 335 frames per second at 4096×3072 resolution. Equipped with the Vieworks' innovative technologies proved by world's top FPD manufacturers, this camera offers not only fast frame rates but also highly uniformed images. Its CoaXPress 2.0 interface supports transmitting image data at up to 50 Gbps using four coaxial cables. Featured with high speed and high performance, the VC-12MX2-M/C 330 F camera is an excellent choice for applications that require high data rates and resolutions, such as FPD, PCB and semiconductor inspections.

VIEWORKS

www.vieworks.com

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Main Features

- High Speed 12 Megapixel CMOS Image Sensor
- CoaXPress 2.0 Interface up to 335 fps at 50 Gbps using 4 CH
- Global Shutter CMOS Technology
- Multi-strobe Control (up to 6-line outputs)
- DSNU and PRNU Correction
- Flat Field Correction
- Defective Pixel Correction
- GenICam Compatible – XML based Control

Applications

- FPD and Electronics Inspection
- Semiconductor Inspection
- Research and Scientific Imaging
- Document / Film Scanning

Specifications

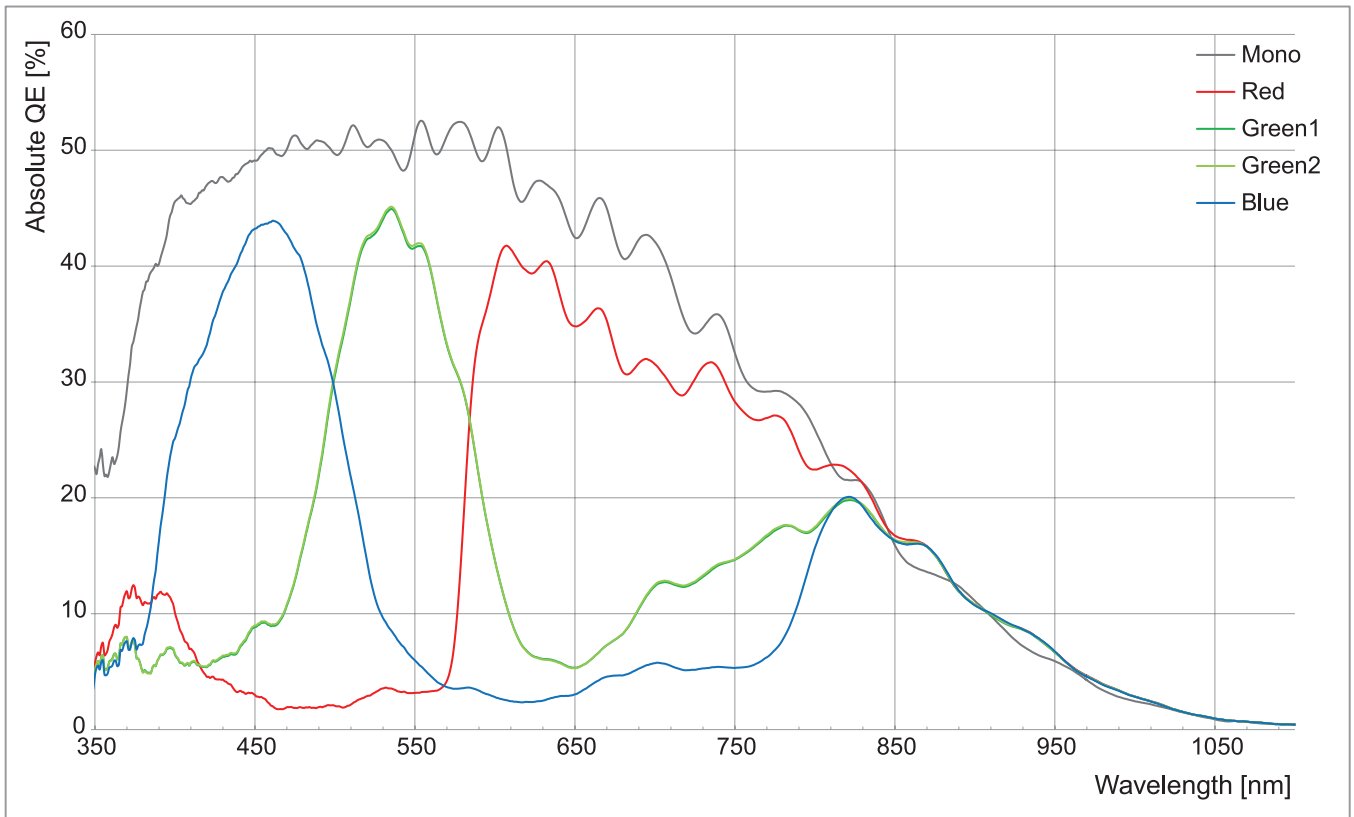
Model	VC-12MX2-M/C 330 F	
Resolution (H × V)	4,096 × 3,072	
Sensor	AMS CMV12000	
Optical Format (Diagonal)	APS-like (28.16 mm)	
Sensor Type	High Speed CMOS Image Sensor	
Pixel Size	5.5 μm × 5.5 μm	
Interface	CoaXPress 2.0 (CXP-12)	
Max. Frame Rate	CXP-12 × 1	94 fps
	CXP-12 × 2	188 fps
	CXP-12 × 4	335 fps
Exposure Time (1 μs step)	1 μs – 60 s	
Partial Scan (Max. Speed)	10989 fps at 4 Lines	
Pixel Data Format	Mono	Mono 8
	Color	GB Bayer 8
Electronic Shutter	Global Shutter	
Gain Control	1× ~ 32×	
Black Level Control	0 – 15.75 LSB (Increment: 0.25)	
Trigger Synchronization	Free-Run, Hardware Trigger, Software Trigger or CXP	
External Trigger	3.3 V ~ 24.0 V, 10 mA, Logical Level Input, Optically Isolated	
Software Trigger	Asynchronous, Programmable via Camera API	
Dynamic Range	54 dB	
Dimension / Weight	80 mm × 80 mm × 102 mm, 680 g (F-mount)	
Temperature	Operating: 0°C ~ 40°C, Storage: -40°C ~ 70°C	
Lens Mount	F-mount, Custom mount available upon request	
Power	External	10 ~ 24 V DC
	Dissipation	Typ. 21.5 W
	PoCXP	24 V DC, Minimum of two PoCXP cables required
Compliance	CE, FCC, KC (in preparation)	
API SDK	Vieworks Imaging Solution 7.X	

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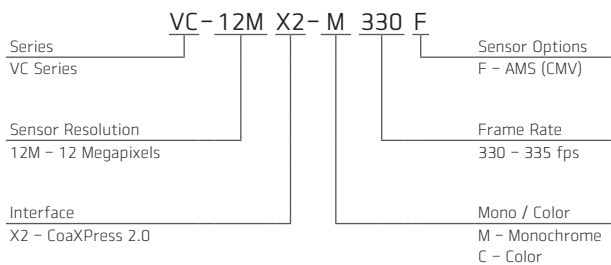
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Spectral Response



Ordering Scheme



Connector Specification

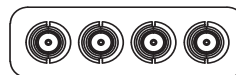
Power / Control



- | | |
|------------------|------------------------------------|
| 1: DC Ground | 2: +12V DC |
| 3: I/O Output- | 4: I/O Output1+ |
| 5: Trigger IN- | 6: Trigger IN+ |
| 7: I/O Output2+ | 8: I/O Output3+ |
| 9: I/O Output4+ | 10: I/O Output5+ |
| 11: I/O Output6+ | 12: Not Connected (HR10A-10R-12PB) |

Data Transfer / Communications

Micro-BNC



CH1 CH2 CH3 CH4

CH1: Master Connection
Micro-BNC (HD-BNC)

Connectors on camera body

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Mechanical Dimensions

Unit: mm

