

# 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  $4096 \times 3072$  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.

# VC-12MX2-M/C 330 F

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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

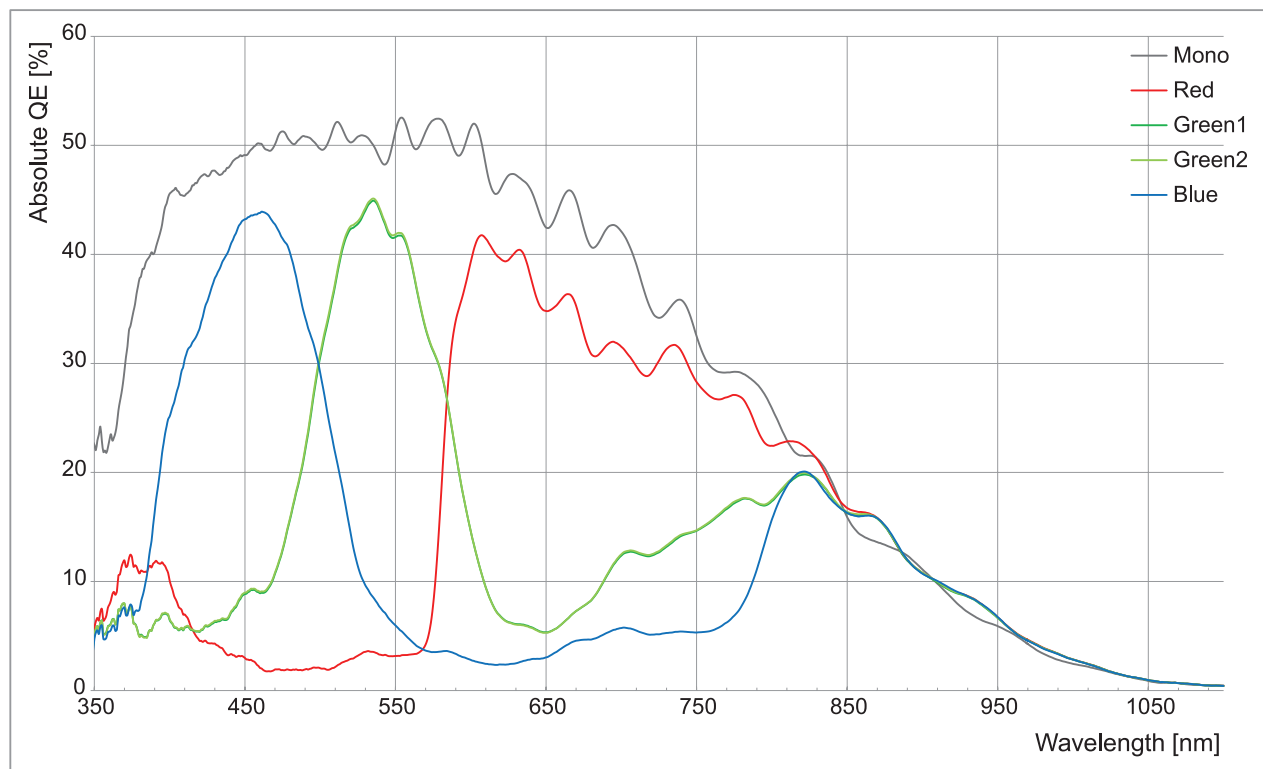
Model		VC-12MX2-M/C 330 F
Resolution (H × V)		4,096 × 3,072
Sensor		AMS CMV12000
Optical Format (Diagonal)		APS-like (28.16 mm)
Sensor Type		High Speed CMOS Image Sensor
Pixel Size		5.5 $\mu\text{m}$ × 5.5 $\mu\text{m}$
Interface		CoaXPress 2.0 (CXP-12)
Max. Frame Rate	CXP-12 × 1	94 fps
	CXP-12 × 2	188 fps
	CXP-12 × 4	335 fps
Exposure Time (1 $\mu\text{s}$ step)		1 $\mu\text{s}$ – 60 s
Partial Scan (Max. Speed)		28571 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
API SDK		Vieworks Imaging Solution 7.X

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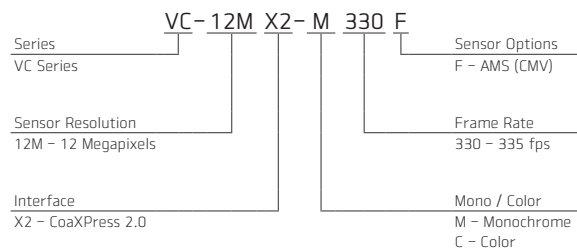
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## Spectral Response



## Ordering Scheme



## Connector Specification

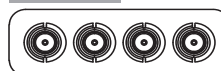
### Power / Control



- |                  |                                    |
|------------------|------------------------------------|
| 1: DC Ground     | 2: +12V DC                         |
| 3: I/O Output1-  | 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

