

# VC-25MX2-M/C150I

25 Megapixel High Speed CMOS Digital Camera  
with CoaXPress 2.0 Interface



**CoaXPress**<sup>®</sup>

The VC-25MX2-M/C150I, the latest model of the industrial proven VC series, is a new 25-megapixel CoaXPress camera and based on the CMOS global shutter image sensor technology (GMAX0505) from Gpixel. The VC-25MX2-150I camera offers up to 150.2 frames per second at 5,120 × 5,120 resolution. The camera comes with the next generation CoaXPress 2.0 (CXP-12) interface delivering up to 50 Gigabits per second over four coaxial cables. These combinations of the CMOS sensor technology and CoaXPress 2.0 interface set a new standard for industrial, scientific and surveillance digital imaging applications. Customers in the industrial market can take advantage of simple coax cabling to transmit images at rates and distance above and beyond previous standards. This high-speed and high-resolution camera is ideal for wide range of demanding applications such as FPD, PCB and semiconductor inspections.

**VIEWORKS**

[vision.vieworks.com](http://vision.vieworks.com)

## Main Features

- High Speed 25 Megapixel CMOS Image Sensor
- CoaXPress 2.0 Interface up to 150.2 fps at 50 Gbps using 4 CH
- Global Shutter CMOS Technology
- DSNU and PRNU Correction
- Flat Field Correction
- Defective Pixel Correction
- GenICam Compatible – XML based Control

## Applications

- Flat Panel Display Inspection
- Electronics Inspection
- Semiconductor Inspection
- Document / Film Scanning

## Specifications

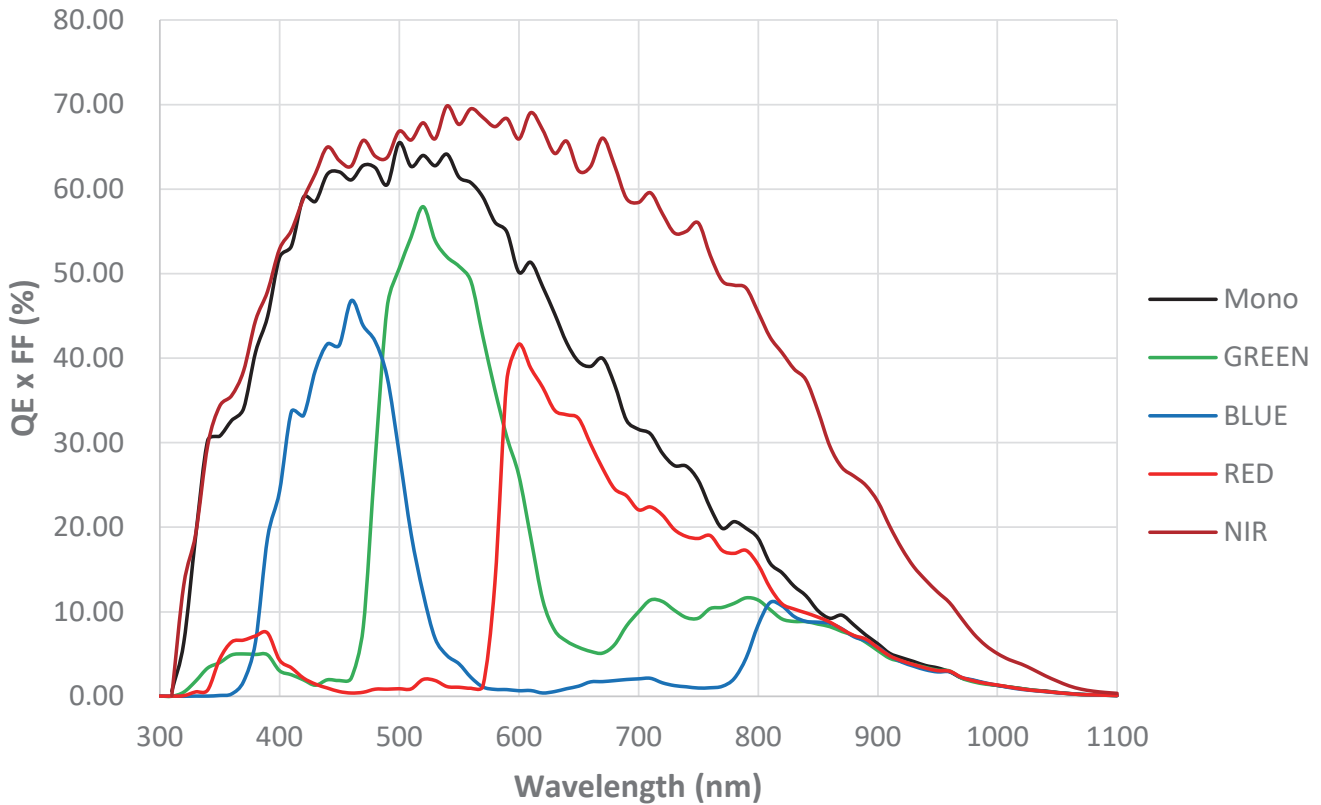
Model	VC-25MX2-M/C150I	
Resolution (H × V)	5,120 × 5,120	
Sensor	Gpixel GMAX0505 (Monochrome/Color)	
	Gpixel GMAX0505RF (NIR enhanced)	
Sensor Size (Diagonal)	12.8 mm × 12.8 mm (18.1 mm)	
Sensor Type	High Speed CMOS Image Sensor	
Pixel Size	2.5 μm × 2.5 μm	
Interface	CXP-12 × 4	
Max. Frame Rate	CXP-6 × 4	93.1 fps
	CXP-10 × 4	145.6 fps
	CXP-12 × 4	150.2 fps
Exposure Time (1 μs step)	1 μs – 60 s	
Partial Scan (Max. Speed)	9022 fps at 4 Lines	
Pixel Data Format	Mono	Mono 8 / Mono 10
	Color	GB Bayer 8 / GB Bayer 10
Electronic Shutter	Global Shutter	
Gain Control	1× ~ 32×	
Black Level Control	0 – 63 LSB at 10 bit	
Trigger Synchronization	Free-Run, Hardware Trigger, Software Trigger or CXP	
External Trigger	3.3 V ~ 24.0 V Logical Level Input, Optically Isolated	
Software Trigger	Asynchronous, Programmable via Camera API	
Dynamic Range	61 dB	
Dimension / Weight	80.0 mm × 80.0 mm × 69.4 mm, 560 g (C-mount)	
Temperature	Operating: 0°C ~ 40°C, Storage: -40°C ~ 70°C	
Lens Mount	C-mount, Custom mount available upon request	
Power	External	11 ~ 24 V DC
	Dissipation	Typ. 14.0 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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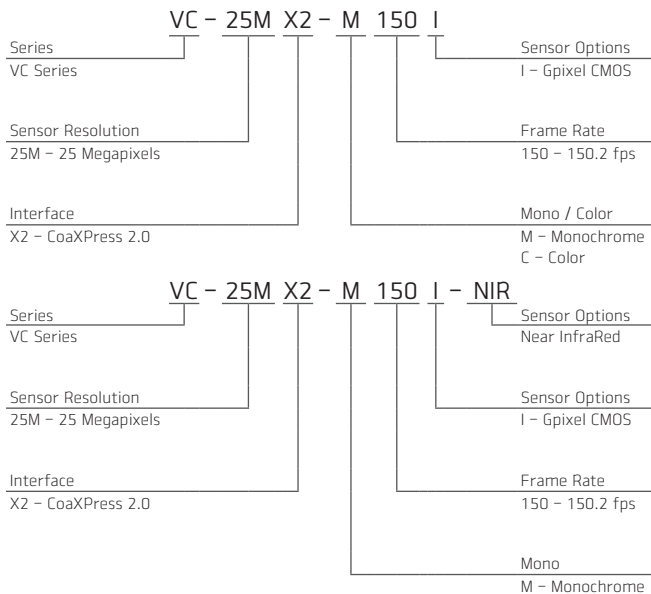
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## Spectral Response

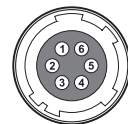


## Ordering Scheme



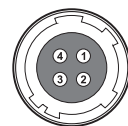
## Connector Specification

### Power



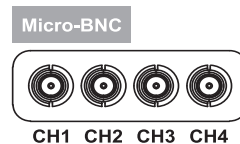
1, 2, 3: +12V DC (HR10A-7R-6PB) 4, 5, 6: GND

### Control



1: Trigger IN+ 2: Trigger IN- 3: Strobe Out-(GND) 4: Strobe Out+ (HR10A-7R-4S)

### Data Transfer / Communications



CH1: Master Connection 75 Ω, Micro-BNC (HD-BNC)

Connectors on camera body

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## Mechanical Dimensions

Unit: mm

