

# VC-25MX-M/C91I

25 Megapixel High Speed CMOS Digital Camera



CoaxPress®

The VC-25MX-91I, the latest model of the industrial proven VC series, is a new 25 megapixel resolution CMOS camera with the CoaxPress interface. The VC-25MX-91I uses the latest CMOS global shutter image sensor (GMAX0505) technology from Gpixel and offers up to 91.3 frames per second at 5120 × 5120 resolution. These combinations of high resolution, high speed and global shutter set a new standard for industrial, scientific and surveillance digital imaging applications. Customers in the industrial market can take advantage of common 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)

# VC-25MX-M/C911

25 Megapixel High Speed CMOS Digital Camera

## Main Features

- 25 Megapixel Resolution
- CoaXPress Interface up to 91.3 fps at 25 Gbps using 4 CH
- Global Shutter CMOS Technology
- DSNU and PRNU Correction
- Flat Field Correction
- Dynamic Defective Pixel Correction
- GenICam Compatible – XML based Control

## Applications

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

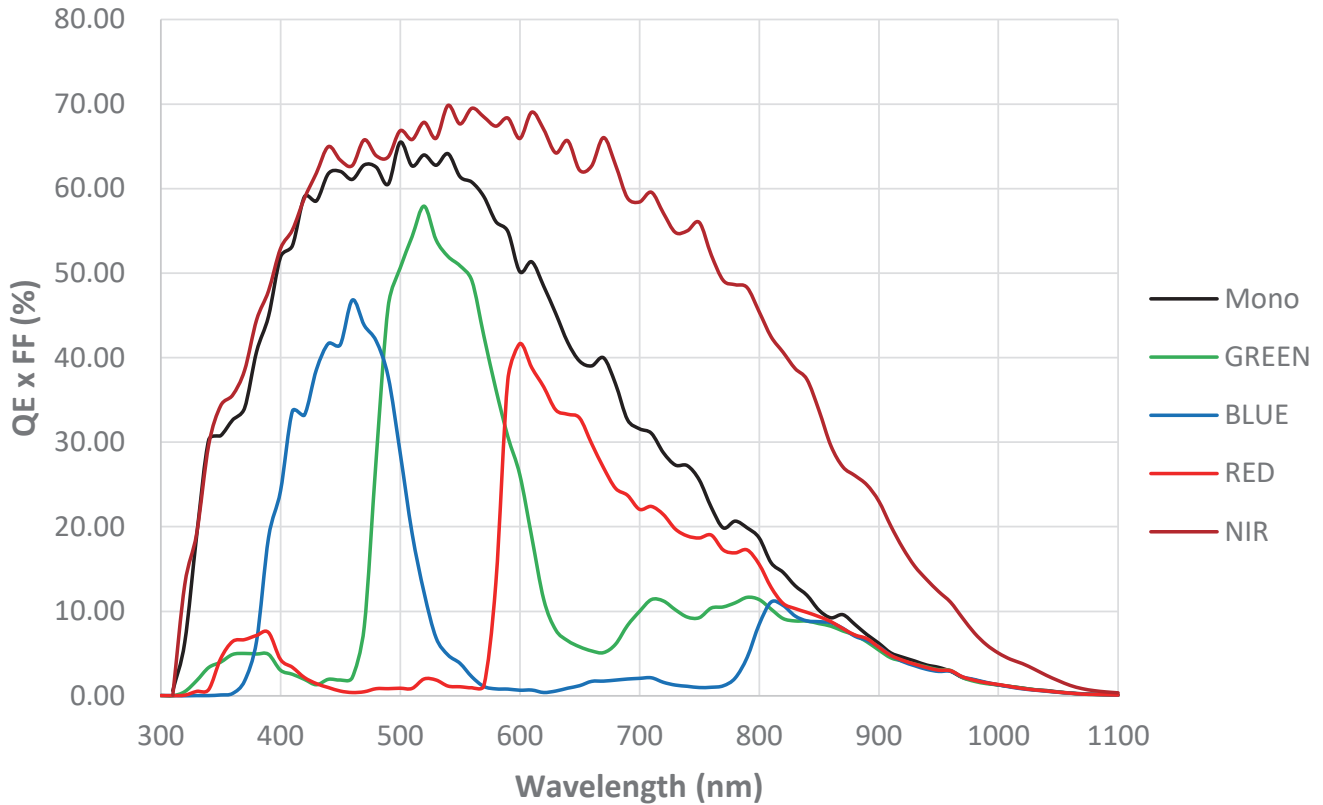
## Specifications

Model	VC-25MX-M/C911	
Resolution (H × V)	5120 × 5120	
Sensor	Gpixel GMAX0505 (Monochrome/Color)	
	Gpixel GMAX0505RF (NIR enhanced)	
Sensor Size (Diagonal)	12.8 mm × 12.8 mm (18.1 mm)	
Pixel Size	2.5 μm × 2.5 μm	
Interface	CoaXPress	
Max. Frame Rate	1 CH: 23.2 fps	
	2 CH: 46.5 fps	
	4 CH: 91.3 fps	
Exposure Time (1 μs step)	1 μs – 60 s	
Partial Scan (Max. Speed)	14260 fps at 96 × 2	
Pixel Data Format	Mono	Mono 8 / Mono 10
	Color	GB Bayer 8 / GB Bayer 10
Electronic Shutter	Global Shutter	
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	60 dB	
Gain Control	1 × ~ 32 ×	
Black Level Control	0 ~ 63 LSB at 10 bit	
Dimension / Weight	50 mm × 50 mm × 57 mm, 210 g (with 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 VDC
	Dissipation	Typ. 10.0 W
	PoCXP	24 VDC, CH 1 only
Compliance	CE, FCC, KC, UL	
API SDK	Vieworks Imaging Solution 7.X	

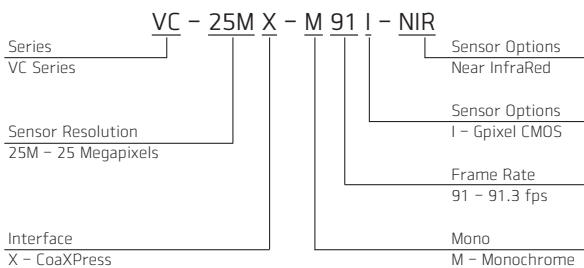
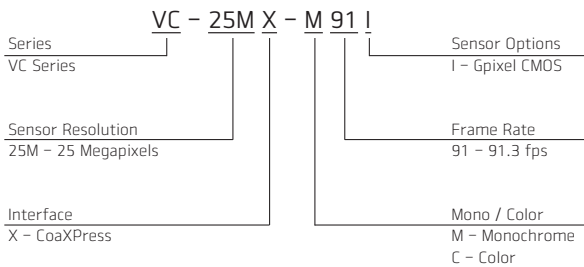
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## Spectral Response



## Ordering Scheme



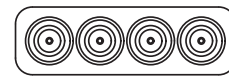
## Connector Specification

### Power / Control



- 1: DC Ground
- 2: +12 VDC
- 3: I/O Output-
- 4: I/O Output+
- 5: Trigger IN-
- 6: Trigger IN+
- 7~12: Not Connected (HR10A-10R-12PB)

### Data Transfer / Communications



CH1: Master Connection (75 Ω, DIN 1.0/2.3)

CH1 CH2 CH3 CH4

Connectors on camera body

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## Mechanical Dimensions

Unit: mm

