

VC-25MX-M42I

25 Megapixel Two-Channel CoaXPress Camera



The VC-25MX-M42I, the latest model of the industrial proven VC series, is a new 25 megapixel resolution CMOS camera with a two-channel CoaXPress interface. The VC-25MX-M42I uses the latest CMOS global shutter image sensor (GMAX0505) technology from Gpixel and offers up to 41.7 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 image data at up to 12.5 Gigabits per second. Featuring high speed and high resolution in a compact form factor, the VC-25MX-M42I is ideal for wide range of demanding applications such as FPD, PCB and semiconductor inspections.

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Main Features

- 25 Megapixel Resolution
- CoaXPress Interface up to 41.7 fps at 25 Gbps using 2 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

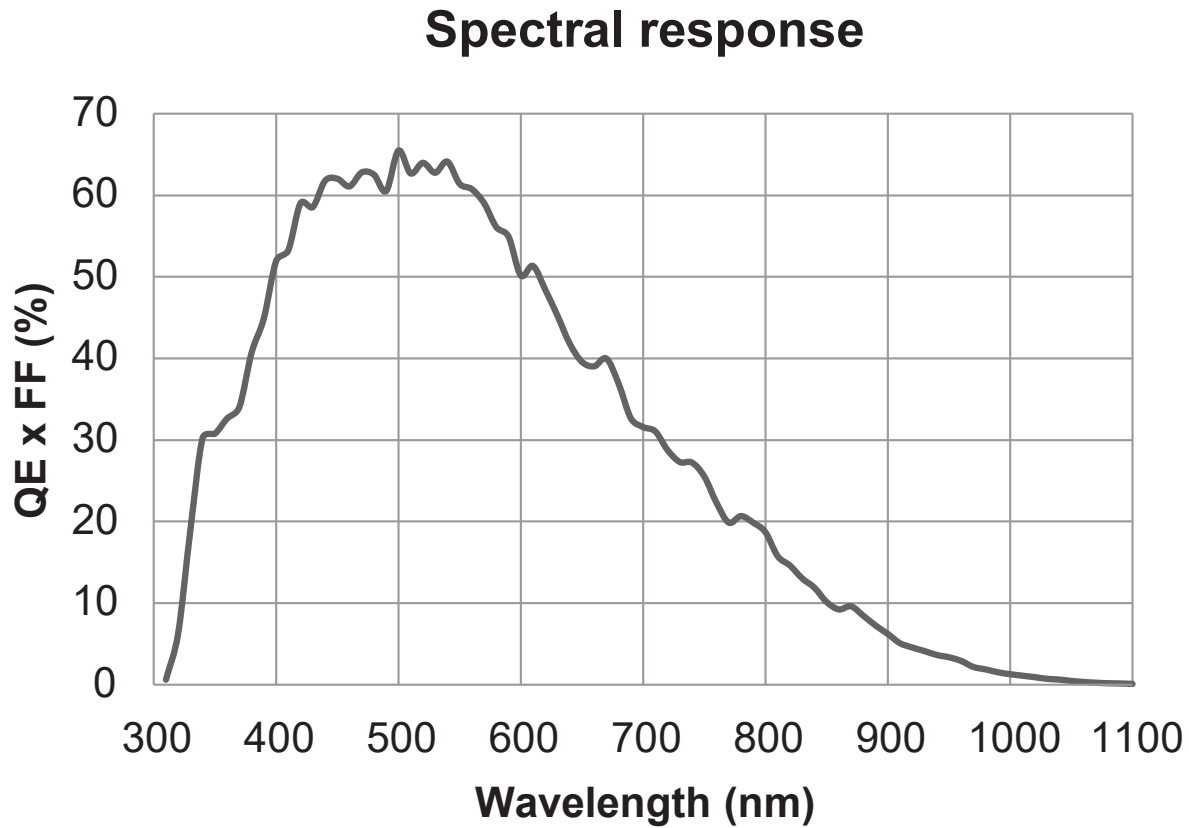
Specifications

Model	VC-25MX-M42I	
Resolution (H × V)	5120 × 5120	
Sensor	Gpixel GMAX0505	
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: 23.1 fps	
	2 CH: 41.7 fps	
Exposure Time (1 μs step)	1 μs – 60 s	
Partial Scan (Max. Speed)	6144.4 fps at 64 × 2	
Pixel Data Format	Mono 8 / Mono 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 × 68 mm, 220 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. 8.0 W
	PoCXP	24 VDC, CH 1 only
Compliance	CE, FCC, KC, UL	
API SDK	Vieworks Imaging Solution 7.X	

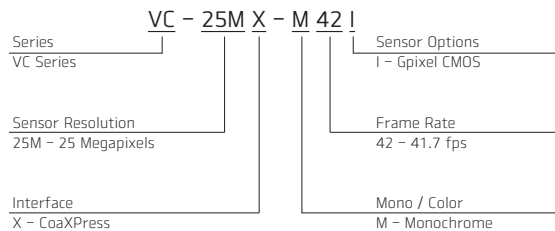
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Spectral Response



Ordering Scheme



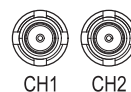
Connector Specification

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)

Connectors on camera body

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Mechanical Dimensions

Unit: mm

