

VC-25MC-M/C 31 I

25 Megapixel High Speed CMOS Digital Camera



The VC-25MC-31 I, the latest model of the industrial proven VC series, is a new 25 megapixel resolution CMOS camera with the Camera Link interface. The VC-25MC-31 I uses the latest CMOS global shutter image sensor (GMAX0505) technology from Gpixel and offers up to 31.7 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. Equipped with the Viewworks' innovative technologies proved by world's top FPD manufacturers, the VC-25MC-31 I camera offers not only highly uniformed images but also high speed image processing capabilities. Featured with high quality image uniformity and high resolution, this camera is ideal for wide range of demanding applications such as FPD, PCB and semiconductor inspections.

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Main Features

- 25 Megapixel Resolution
- Camera Link Full Interface up to 31.7 fps
- Global Shutter CMOS Technology
- DSNU and PRNU Correction
- Flat Field Correction
- GenICam Compatible – XML based Control

Applications

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

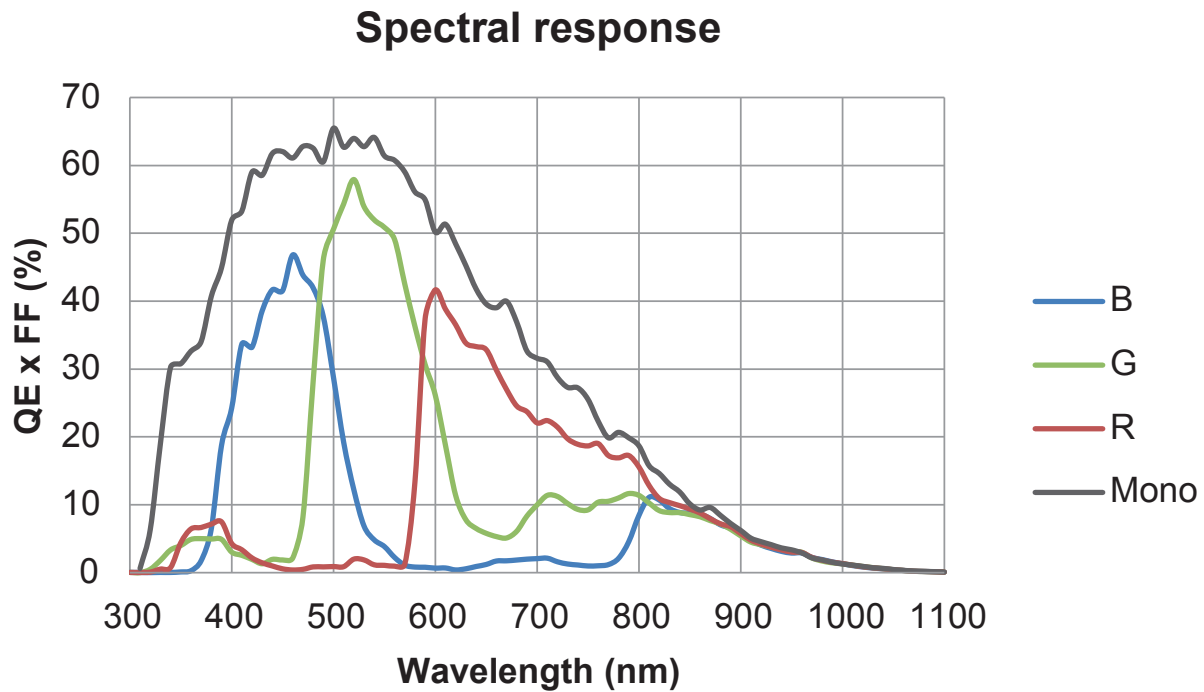
Specifications

Model	VC-25MC-M/C 31 I	
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	Camera Link Base / Medium / Full / 10 Tap, 26-pin SDR Connector	
Max. Frame Rate	2 Tap: 6.4 fps	
	4 Tap: 12.7 fps	
	8 Tap: 25.2 fps	
	10 Tap: 31.7 fps	
Exposure Time (1 μs step)	1 μs – 60 s	
Partial Scan (Max. Speed)	546.4 fps at 64 × 2	
Pixel Data Format	Mono	Mono 8 / Mono 10 / Mono 12
	Color	GB Bayer 8 / GB Bayer 10 / GB Bayer 12
Data Output Pixel Clock Speed	85 MHz	
Electronic Shutter	Global Shutter	
Trigger Synchronization	Free-Run, Hardware Trigger or CC1	
External Trigger	3.3 V ~ 24.0 V, 10 mA, Logical Level Input, Optically Isolated	
Dynamic Range	65 dB	
Gain Control	1 × ~ 32 ×	
Black Level Control	0 ~ 255 LSB at 12 bit	
Dimension / Weight	50 mm × 50 mm × 56 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 V DC
	Dissipation	Typ. 6.0 W
Compliance	CE, FCC, KC	

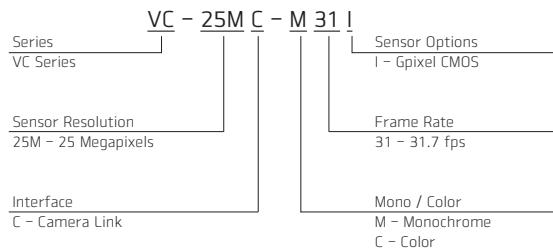
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Spectral Response



Ordering Scheme



Connector Specification

Power / Control



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

Connectors on camera body

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Mechanical Dimensions

Unit: mm

