

VC-127MC-M/C6H

Ultra High Resolution CMOS Digital Camera



The VC-127MC-M/C6H, the latest model of the industrial proven VC series, is a new 127-megapixel resolution CMOS cameras available with the Camera Link interface. The camera is based on the CMOS global shutter image sensor technology (IMX661) from Sony. The VC-127MC-M/C6H offers up to 6.2 frames per second at 13376×9528 resolution. Equipped with the Vieworks' innovative technologies proved by world's top FPD manufacturers, the VC-127MC-M/C6H 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 demanding applications such as FPD, PCB and semiconductor inspections.

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Main Features

- 127-Megapixel Resolution
- Camera Link Full Interface
- Global Shutter CMOS Technology
- DSNU and PRNU Correction
- Flat Field Correction with Sequencer Control
- Hot Pixel Correction
- Defective Pixel Correction

Applications

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

Specifications

Model	VC-127MC-M/6H	
Resolution (H × V)	13376 × 9528	
Sensor	SONY IMX661	
Sensor Size (Diagonal)	46.15 mm × 32.87 mm (56.73 mm)	
Pixel Size	3.45 μm × 3.45 μm	
Interface	Camera Link Base / Medium / Full / 10 Tap, 26-pin SDR Connector	
Max. Frame Rate (8 bit)	2-taps	1.2 fps
	4-taps	2.5 fps
	8-taps	5.0 fps
	10-taps	6.2 fps
Exposure Time (1 μs step)	1 μs - 60 s	
Binning	Sensor (12, 14 bit)	Horizontal and Vertical Dependent: ×1, ×2
	Logic	Horizontal and Vertical Independent: ×1, ×2, and ×4(Mono Only)
Pixel Data Format	Monochrome	Mono 8/10/12 bit
	Color	RG Bayer 8/10/12 bit
Electronic Shutter	Global Shutter	
Exposure Mode	Timed, Trigger Width	
Dynamic Range	72.7 dB at 12 bit	
Gain Control	Analog	1 × ~ 12 ×
	Digital	1 × ~ 32 ×
Black Level Control	0 ~ 255 LSB at 12 bit	
Dimension / Weight	100 mm × 100 mm × 81 mm, 1.01 kg (with M-72 mount)	
Temperature	Operating: 0°C ~ 40°C, Storage: -40°C ~ 70°C	
Trigger Synchronization	Free-Run, Hardware Trigger, Software Trigger, UserOutput0, CC1, Timer	
External Trigger	3.3 V ~ 24.0 V, 10 mA, Logical Level Input, Optically Isolated	
Software Trigger	Asynchronous, Programmable via Camera API	
Lens Mount	M72-mount, Custom mount available upon request	
Power	External	11 ~ 24 V DC
	Dissipation	Typ. 25.5 W
Compliance	CE, FCC, KC	

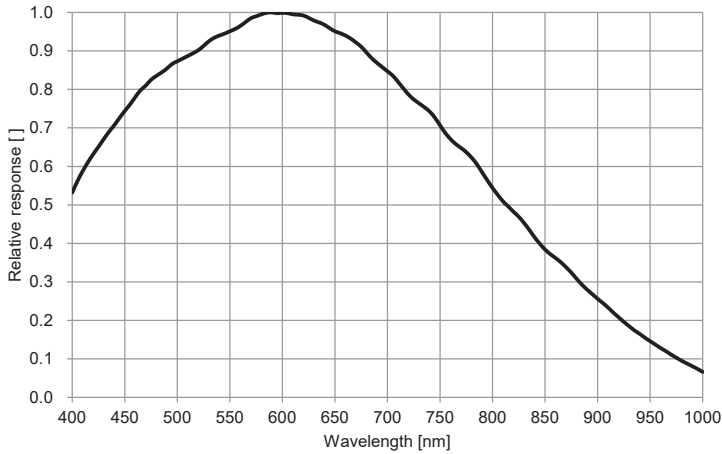
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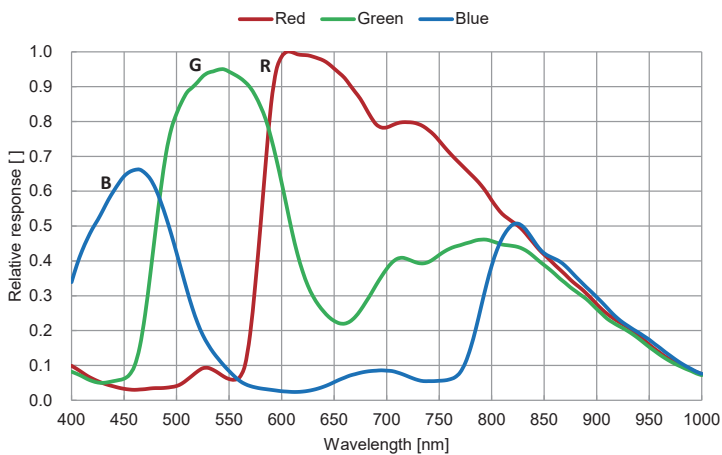
Relative Sensitivity Curves

* The sensitivity data may not match the measurement on the finished product necessarily because it is measured based on the wafer.

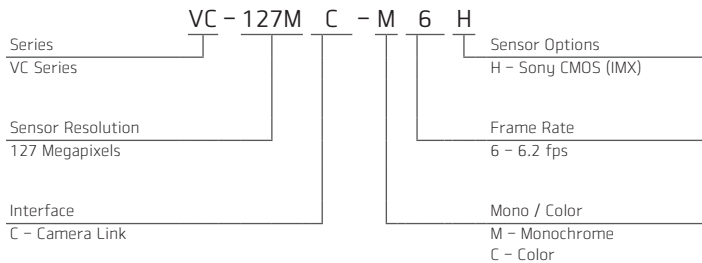
IMX661 Monochrome



IMX661 Color



Ordering Scheme



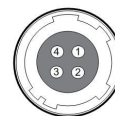
Connector Specification

Power



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

Control



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

Connectors on camera body

