

VP-127MC-M/C6H

127-Megapixel Thermoelectric Peltier Cooled Camera
with Camera Link Interface



The VP-127MC-M/C6H, the latest model of the industrial proven VP series, is a new 127-Megapixel resolution CMOS cameras available with the Camera Link interface. The camera adopts the cutting-edge High Speed CMOS Image Sensor. The VP-127MC-M/C6H camera offers up to 6.2 frames per second at $13,376 \times 9,528$ resolution. This camera uses thermoelectric Peltier (TEC) cooling technology developed for and used by many demanding medical market customers.

The TEC maintains the operating temperature of the image sensor at up to 15 degrees below ambient temperature. The VP-127MC-M/C6H camera provides a stable operating condition and the ability to expose for a long period of time to increase camera sensitivity. Featuring the stable operating capability and high resolution, this camera is ideal for demanding applications such as FPD, PCB and semiconductor inspections.

VIEWWORKS

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VP-127MC-M/C6H

Ultra High Resolution CMOS Digital Camera

Main Features

- Thermoelectric Peltier Cooled – 15°C below
- 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	VP-127MC-M/C6H	
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	Horizontal and Vertical Dependent: ×1, ×2
	Logic	Horizontal and Vertical Independent: ×1, ×2, and ×4(Mono Only)
Pixel Data Format	Monochrome	8/10/12 bit
	Color	RG Bayer 8/10/12 bit
Electronic Shutter	Global Shutter	
Exposure Mode	Timed, Trigger Width	
Dynamic Range	73 dB at 12 bit	
Gain Control	Analog	1× ~ 12×
	Digital	1× ~ 32×
Black Level Control	0 ~ 255 LSB at 12 bit	
Dimension / Weight	110 mm × 110 mm × 89 mm, 1.45 kg (with M-72 mount)	
Cooling Performance	15±2°C below ambient temperature – Standard cooling with a fan	
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	
Lens Mount	M72-mount, Custom mount available upon request	
Power	External	11 ~ 24 V DC
	Dissipation	Typ. 28.5 W
Compliance	CE, FCC, KC	

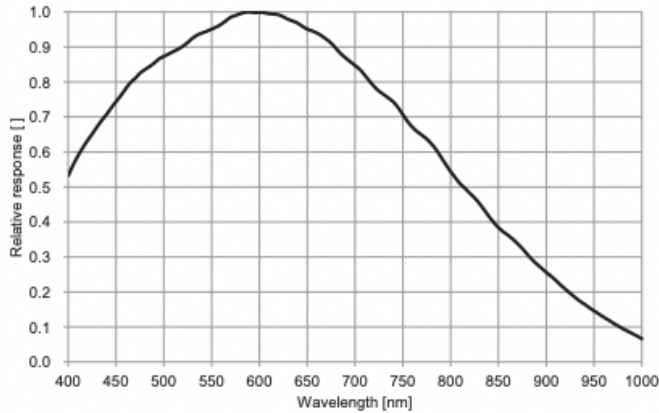
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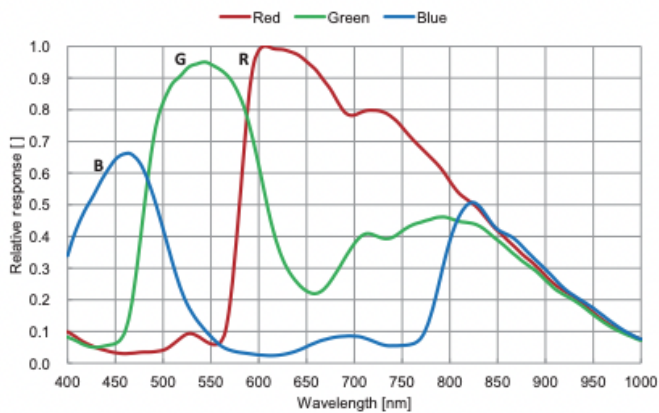
Relative Sensitivity Curves

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

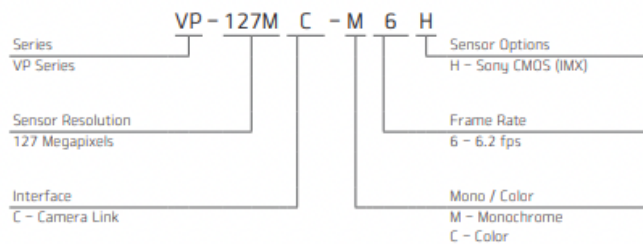
IMX661 Monochrome



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

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Mechanical Dimensions

Unit: mm

