

Preliminary

VC-127MX2-M/C21H00-PLUS

Ultra High Resolution CMOS Digital Camera



CoaXPress®

The VC-127MX2-M/C21H00-PLUS, the latest model of the industrial proven VC series, is a new 127-megapixel CoaXPress camera and based on the CMOS global shutter image sensor technology (IMX661) from Sony. The VC-127MX2-M/C21H00-PLUS offers up to 21.9 frames per second at 13376 × 9528 resolution. The camera comes with the next generation CoaXPress 2.0 (CXP-12) interface delivering up to 50 Gigabits per second over four coaxial cables. These combinations of the CMOS sensor technology and CoaXPress 2.0 interface set a new standard for industrial, scientific and surveillance digital imaging applications. Equipped with the Vieworks' innovative technologies proved by world's top FPD manufacturers, the VC-127MX2-M/C21H00-PLUS camera offers not only highly uniformed images but also high-speed image processing capabilities.

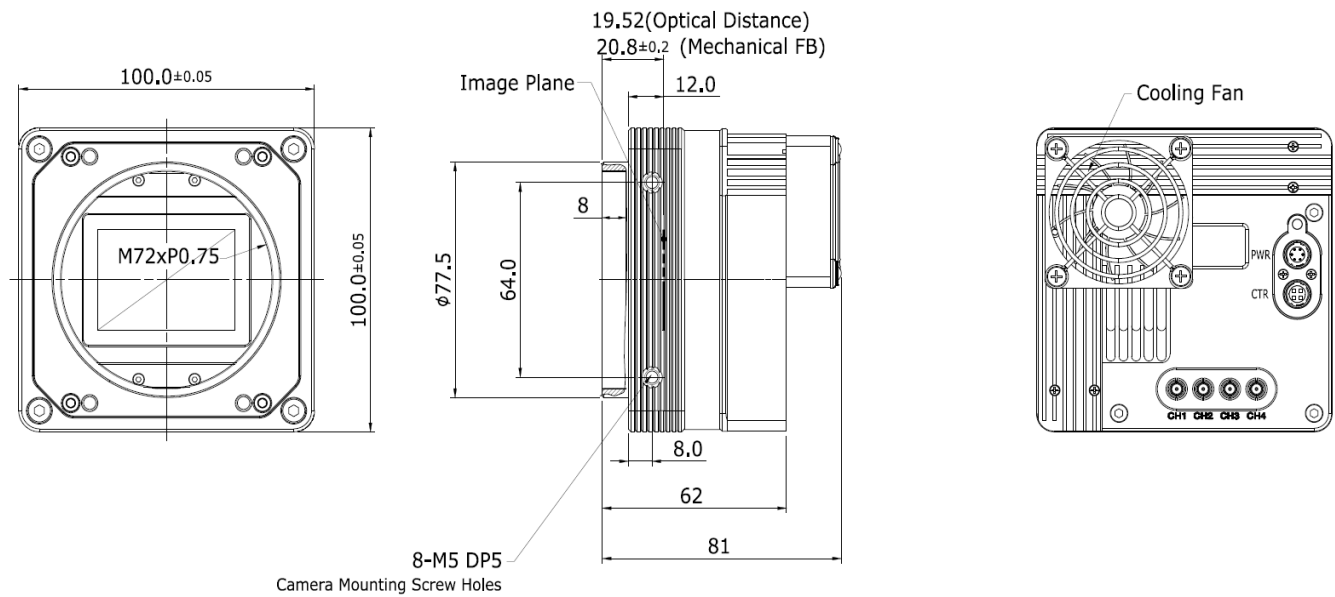
Featured with high-quality image uniformity and high-resolution, this camera is ideal for demanding applications such as FPD, PCB and semiconductor inspections.

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Mechanical Dimensions

Unit: mm



최적의 ALL-IN-1 솔루션을 제안합니다.

솔루션, 제품, 서비스에 대해 궁금하신 내용을 남겨주시면 빠른 시일 내로 회신 드리겠습니다.



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공식 블로그



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Main Features

- 127-Megapixel Resolution
- CoaXPress 2.0 Interface up to 21.9 fps at 50 Gbps using 4 Channels
- Power over CoaXPress (PoCXP)
- Global Shutter CMOS Technology
- DSNU and PRNU Correction
- Pixel by Pixel Flat Field Correction
- Defective Pixel Correction

Applications

- Flat Panel Display Inspection
- PCB Inspection
- Electronics Inspection
- Semiconductor Inspection

Specifications

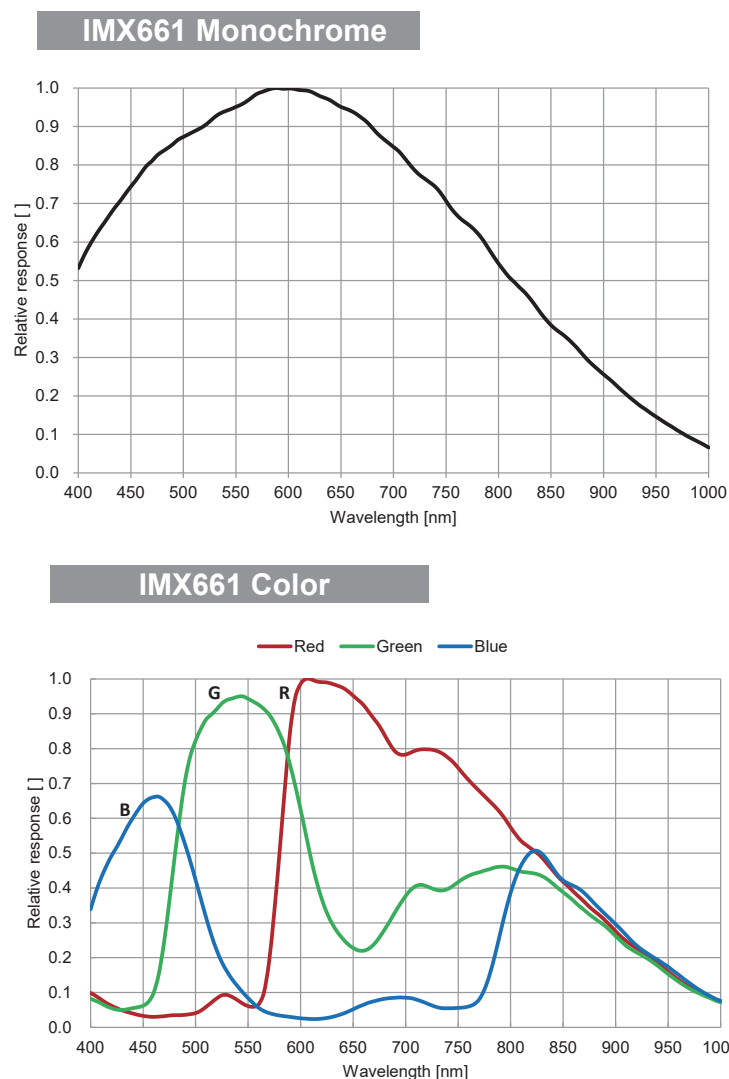
Model		VC-127MX2-M/C21H00-PLUS
Resolution (H × V)		13376 × 9528
Sensor		SONY IMX661
Sensor Size (Diagonal)		46.15 mm × 32.87 mm (56.73 mm)
Pixel Size		3.45 μm × 3.45 μm
Interface		CoaXPress 2.0 (CXP-6/10/12)
Max. Frame Rate (8 bit)	CXP6 × 4	19.2 fps
	CXP10 × 4	21.9 fps
	CXP12 × 4	21.9 fps
Exposure Time (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	8/10/12/14 bit
	Color	RG Bayer 8/10/12/14 bit
Electronic Shutter		Global Shutter
Exposure Mode		Timed, Trigger Width
Dynamic Range		72dB at 14 bit
Gain Control	Analog	1 × ~ 12 ×
	Digital	1 × ~ 32 ×
Black Level Control		0 ~ 1023 LSB at 14 bit
Dimension / Weight		100 mm × 100 mm × 81 mm, 1.01 kg (with M-72 mount)
Temperature		Operating: 0℃ ~ 40℃, Storage: -40℃ ~ 70℃
Trigger Synchronization		Hardware Trigger, Software Trigger, CXP or UserOutput0
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	Adapter	11 ~ 24 V DC
	Dissipation	Typ. 24 W
	PoCXP	24 V DC, Minimum of two PoCXP cables required
Compliance		CE, FCC, KC
API SDK		Viewworks Imaging Solution 7.X

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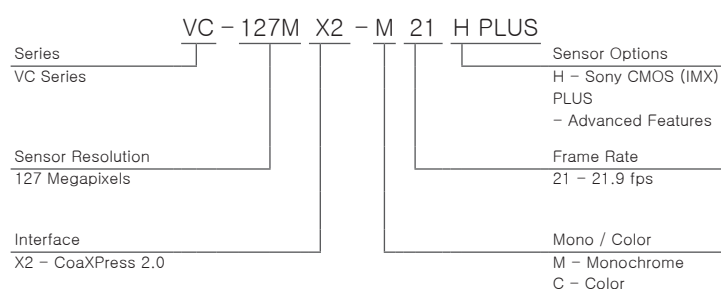
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Relative Sensitivity Curves

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

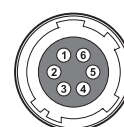


Ordering Scheme



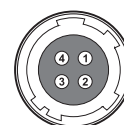
Connector Specification

Power



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

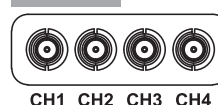
Control



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

Data Transfer / Communications

Micro-BNC



CH1: Master Connection
75 Ω, Micro-BNC (HD-BNC)

Connectors on camera body