VC-127MX2-M/C21H

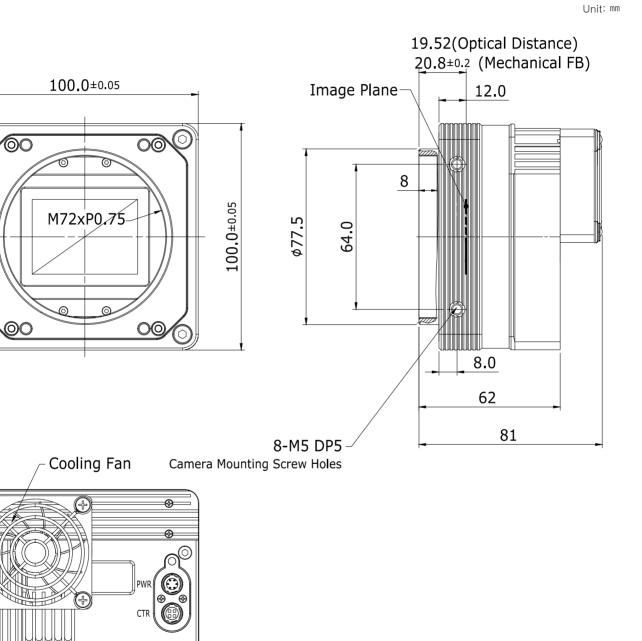
Ultra High Resolution CMOS Digital Camera



The VC-127MX2-M/C21H, 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/C21H 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/C21H 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.



MechanicalDimensions



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СН1 СН2 СН3 СН4



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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
- PRNU Correction
- Flat Field Correction with Sequencer Control
- Defective Pixel Correction

Specifications

Applications

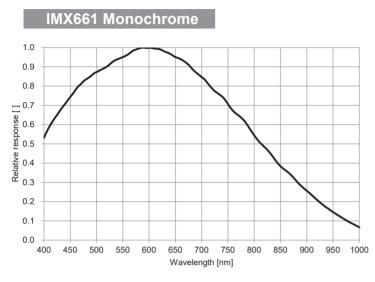
- Flat Panel Display Inspection
- Electronics Inspection
- Semiconductor Inspection
- Document / Film Scanning

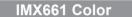
Model		VC-127MX2-M/C21H
Resolution (H \times V)		13376 × 9528
Sensor		SONY IMX661
Sensor Size (Diagonal)		46.15 mm × 32.87 mm (56.73 mm)
Pixel Size		3.45 µm × 3.45 µm
Interface		CoaXPress 2.0 (CXP-6/10/12)
Max. Frame Rate (8 bit)	CXP6 × 4	19.2 fps
	CXP10 × 4	21.9 fps
	CXP12 × 4	21.9 fps
Exposure Time (1 μ s 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	Monochrome	8/10/12/14 bit
Format	Color	RG Bayer 8/10/12/14 bit
Electronic Shutter		Global Shutter
Exposure Mode		Timed, Trigger Width
Dynamic Range		72.7 dB at 14 bit
Gain Control	Analog	1× ~ 12×
	Digital	$1 \times \sim 32 \times$
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		Free-Run, Hardware Trigger, Software Trigger, UserOutput0, CXP, Timer
External Trigger		3.3 V \sim 24.0 V, 10 $^{\rm mA},$ 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	Тур. 25.5 W
	PoCXP	24 V DC, Minimum 2 of PoCXP cables required
Compliance		CE, FCC, KC
API SDK		Vieworks Imaging Solution 7.X
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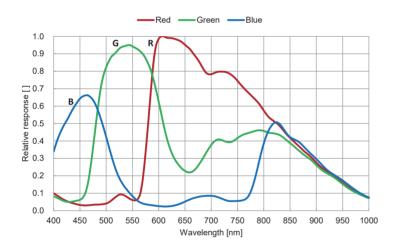
Ultra High Resolution CMOS Digital Camera

Relative Sensitivity Curves

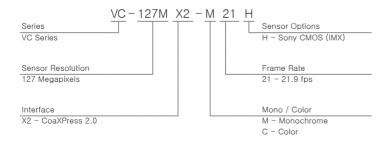
necessarily because it is measured based on the wafer







Ordering Scheme



ConnectorSpecification

Power



Control



Data Transfer / Communications



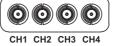
75 Ω, Micro-BNC (HD-BNC)

1, 2, 3: +12V DC 4, 5, 6: GND

(HR10A-7R-6PB)

1: Trigger IN+ 2: Trigger IN-

3: Strobe Out-(GND) 4: Strobe Out+ (HR10A-7R-4S)



CH1: Master Connection