VC-61MC-M/C 13 H

High Performance 61MP CMOS Digital Camera

The VC-61MC 13 H, the latest model of the industrial proven VC series, is a new 61 megapixel CMOS camera available with the Camera Link interface. This camera is based on the latest CMOS image sensor technology (IMX455) from Sony Semiconductor Solutions Corporation. The VC-61MC 13 H offers up to 13 frames per seconds at 9568 × 6380 resolution. Equipped with the Vieworks' innovative technologies proved by world's top FPD manufacturers, the VC-61MC camera offers not only highly uniformed images but also high speed image processing capabilities. Featuring high quality image uniformity and high speed, this camera is ideal for demanding applications such as FPD, PCB and semiconductor inspections.

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Main Features

- 61 Megapixel Resolution
- Camera Link Full Interface
- Electronic Rolling Shutter
- DSNU and PRNU Correction
- Flat Field Correction with Sequencer Control
- Hot Pixel Correction
- GenICam Compatible – XML based Control

Applications

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

Specifications

Model		VC-61MC-M/C 13 H
Resolution (H × V)		9568 × 6380
Sensor		SONY IMX455
Max. Image Circle		Diagonal 43.3 ㎜ (Type 2.7)
Pixel Size		3.76 ㎛ × 3.76 ㎛
Interface		Camera Link Base/Medium/Full/10-tap, 26-pin SDR Connector
Max. Frame Rate	2 Tap	2.75 fps
	4 Tap	5.50 fps
	8 Tap	10.97 fps
	10 Tap	13.68 fps
Exposure Time (2-Line step)		22.72 ㎲ – 60 s (@ 10 Tap)
Partial Scan (Max. Speed)		1569.85 fps at 4 Lines
Binning	Sensor	×1, ×2, ×3 (Horizontal and Vertical Dependent)
	Logic	×1, ×2, ×4 (Horizontal and Vertical Independent)
Pixel Data Format	Mono	Mono 8/10/12
	Color	RG Bayer 8/10/12
Data Output Pixel Clock Speed		65/85 ㎒
Electronic Shutter		Rolling Shutter
Trigger Synchronization	Overlapped	Free-Run
	Non-overlapped	Hardware Trigger, Software Trigger, CC1 or User Output0
External Trigger		3.3 V ~ 24.0 V, 10 ㎃, Logical Level Input, Optically Isolated
Dynamic Range		78 dB
Gain Control		Analog: 1× ~ 32× / Digital: 1× ~ 32×
Black Level Control		0 ~ 255 LSB at 12 bit
Dimension / Weight		80.0 ㎜ × 80.0 ㎜ × 107.0 ㎜, 744 g (with F-mount)
Temperature		Operating: 0℃ ~ 40℃, Storage: -40℃ ~ 70℃
Lens Mount		F-mount, Custom Mount Available upon Request
Power	External	11 ~ 24 V DC
	Dissipation	Typ. 16.0 W
Compliance		CE, FCC, KC
API SDK		Vieworks Imaging Solution 7.X

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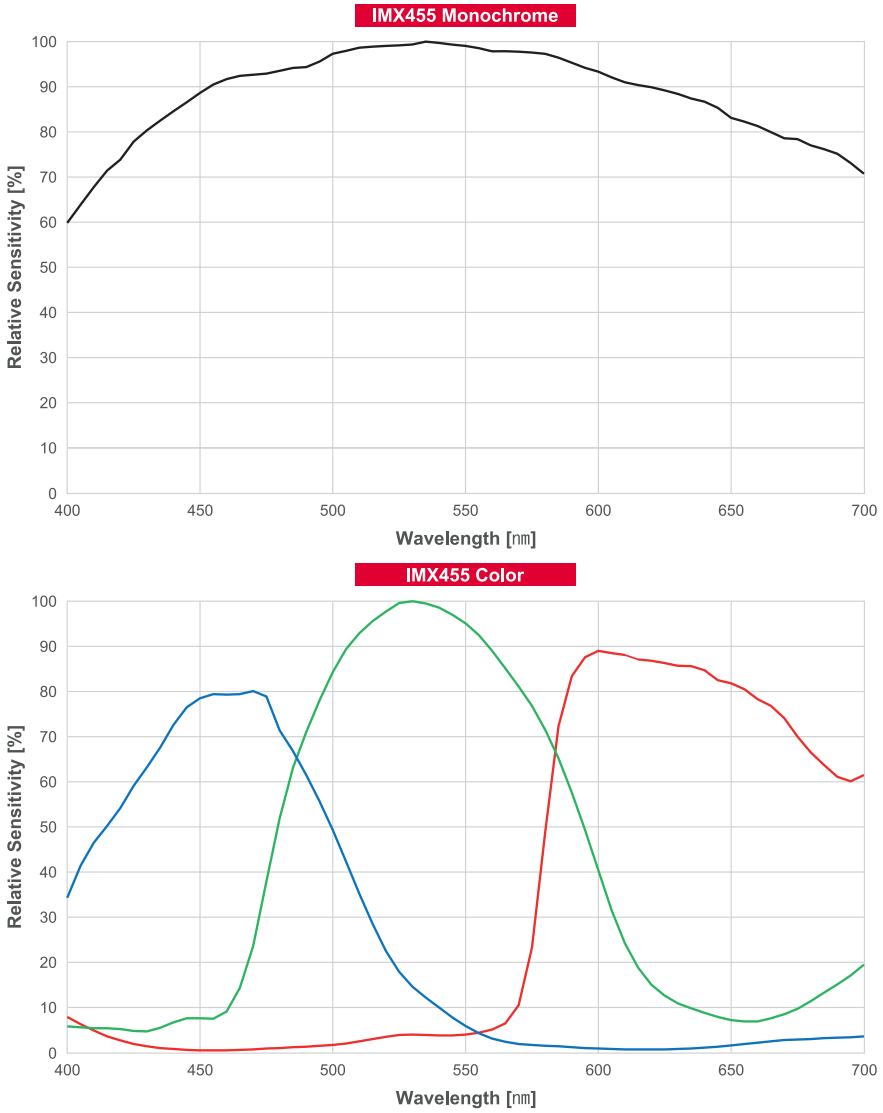
Relative Sensitivity Curves



Ordering Scheme

VC – 61M C – M 13 H

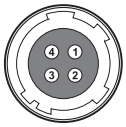
- Series: VC Series
- Sensor Resolution: 61M – 61 Megapixels
- Interface: C – Camera Link
- Mono / Color: M – Monochrome, C – Color
- Frame Rate: 13 – 13.68 fps
- Sensor Options: H – Sony CMOS (IMX)

Connector Specification

Power

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

Control

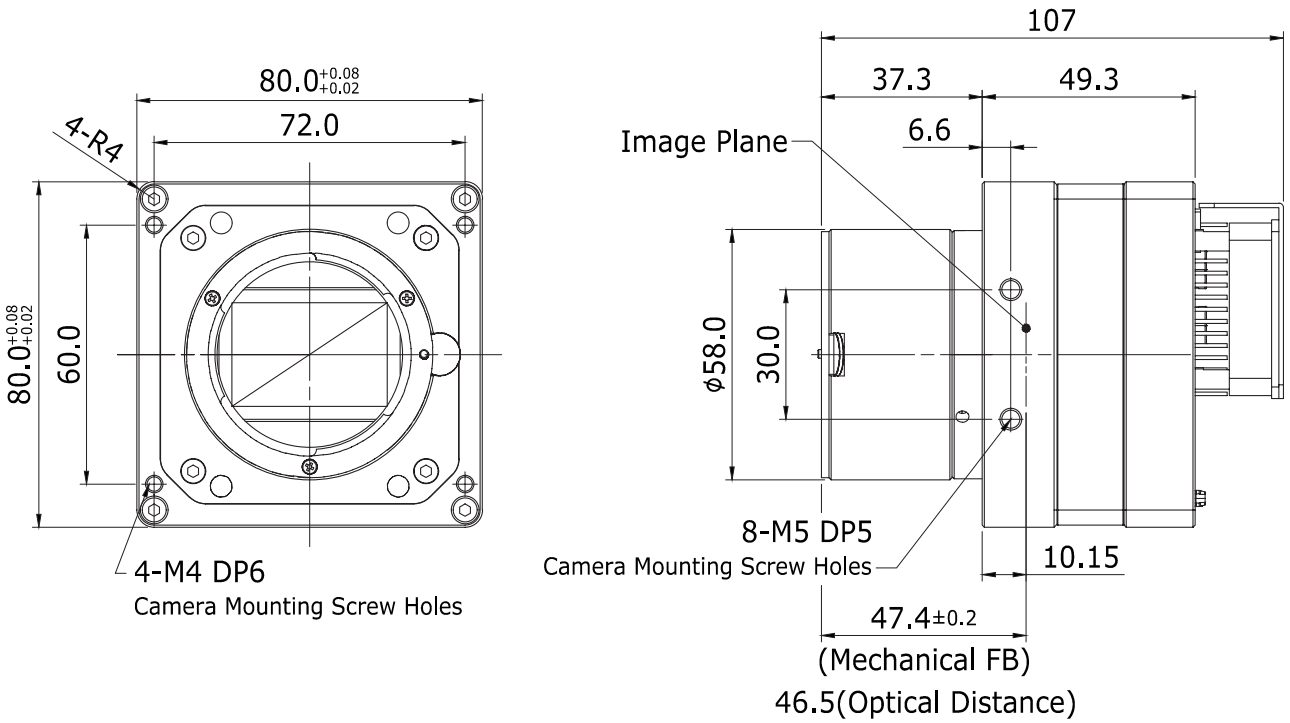


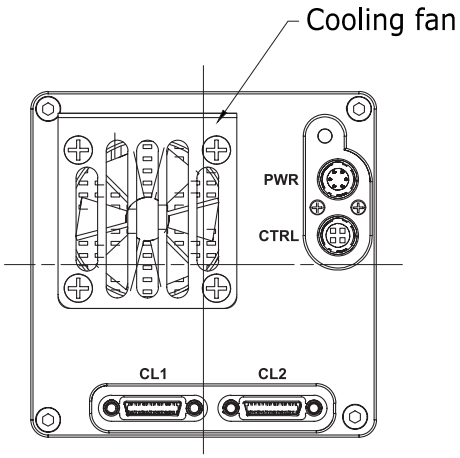
1: Trigger IN+
2: Trigger IN–
3: Strobe OUT–(GND)
4: Strobe OUT+
(HR10A-7R-4S)

Connectors on Camera Body

Mechanical Dimensions

Unit: mm





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