

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

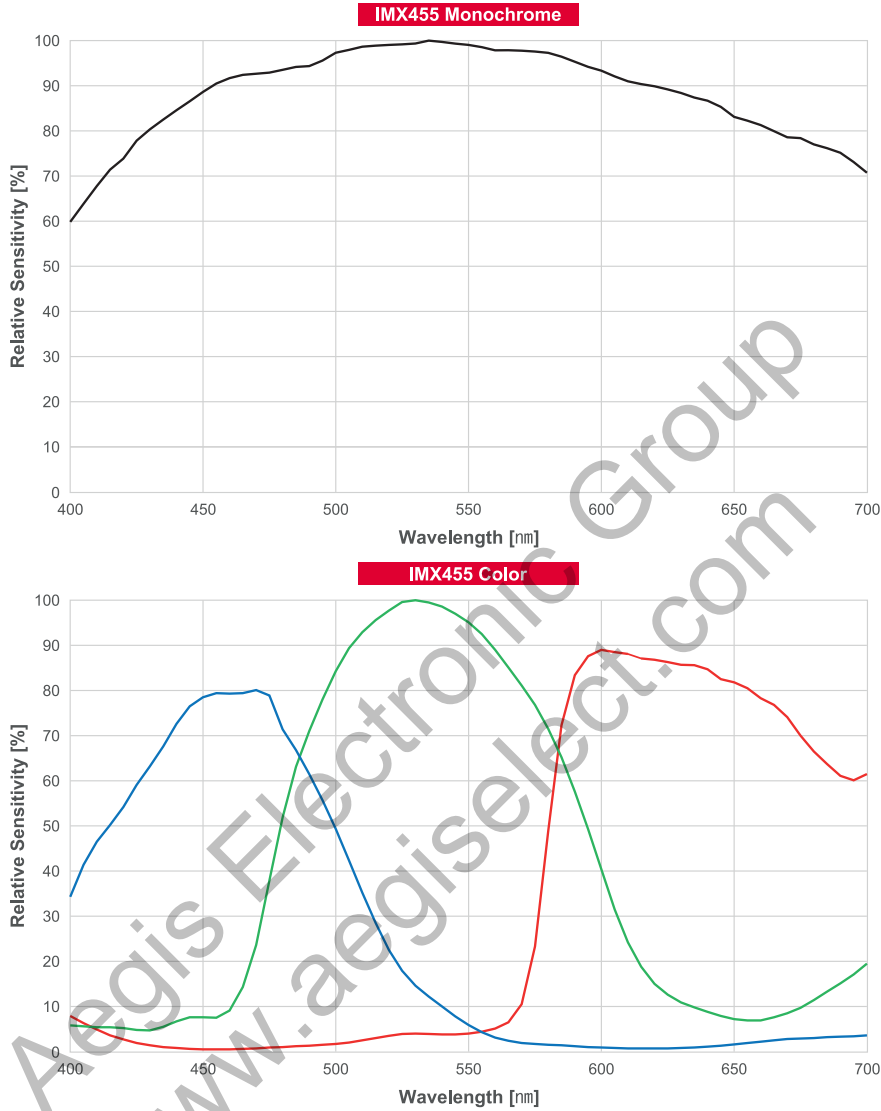
Specifications

Model	VC-61MC-M/C 13 H	
Resolution (H × V)	9568 × 6380	
Sensor	SONY IMX455	
Max. Image Circle	Diagonal 43.3 mm (Type 2.7)	
Pixel Size	3.76 μm × 3.76 μm	
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 μs – 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 MHz	
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 mA, 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 mm × 80.0 mm × 107.0 mm, 744 g (with F-mount)	
Temperature	Operating: 0°C ~ 40°C, Storage: -40°C ~ 70°C	
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	

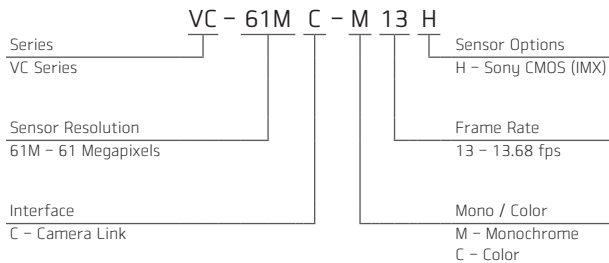
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Relative Sensitivity Curves

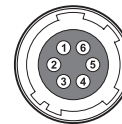


Ordering Scheme



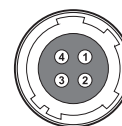
Connector Specification

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

