VC-2MC-M/C 150/340 VC-3MC-M/C 280 VC-4MC-M/C 80/180

2, 3 & 4 MEGAPIXELS RESOLUTIONS, GLOBAL ELECTRONIC SHUTTER, HIGH-SPEED CMOS DIGITAL CAMERA



VC Series is high-resolution CMOS digital cameras for machine vision. Equipped with the latest global shutter CMOS image sensor technology available today, these cameras offer not only high-speed image processing capabilities but also precise exposure control. Furthermore, its outstanding noise reduction technology and a wide range of camera resolutions make these cameras ideal for use in various industrial inspection and scientific research applications.

VIEWOLKS

Main Features

- * 2M/3M/4M Resolutions
- * High-Speed Progressive Scan CMOS Image Sensor
- * Global Shutter CMOS Technology
- * Full Camera Link Interface with 8 bit or 10 bit Data Output
- * Excellent Noise Reduction
- * Field Upgradable Firmware
- * Pixel Defect Correction

Specifications

Applications

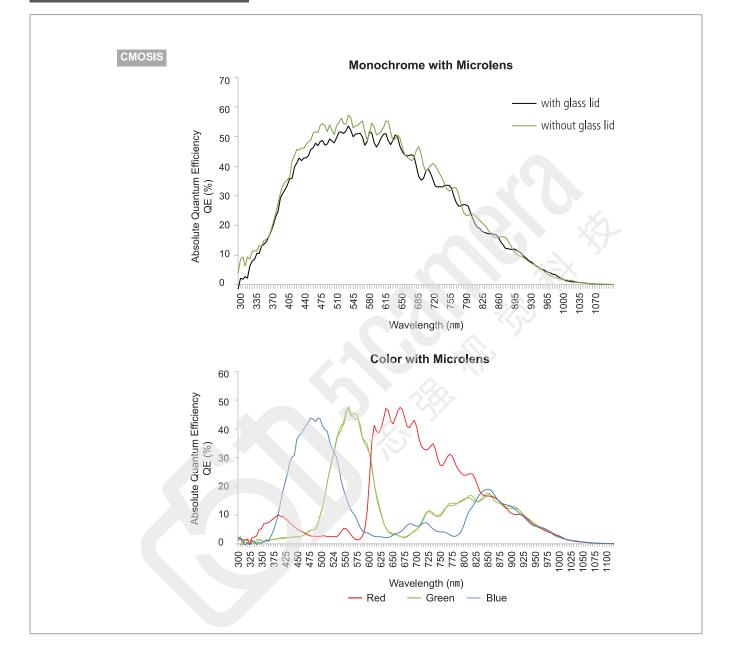
- * Machine Vision Inspection
- * Research and Scientific Imaging
- * Microscopy and Metrology

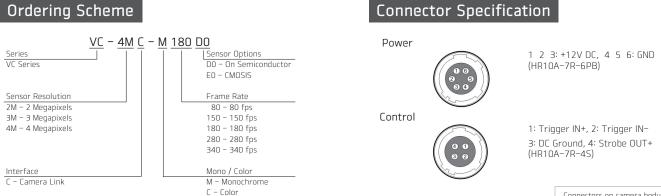
Model	VC-2MC-M/C 150	VC-2MC-M/C 340	VC-3MC-M/C 280		VC-4MC-M/C 180	
Resolution (H $ imes$ V)	2048	× 1088	1696 × 1710	2048	8 × 2048	
Sensor	CMOSIS CMV 2000		On Semiconductor LUPA 3000	CMOSIS CMV 4000		
Sensor Size (Optical Format)	11.26 mm $ imes$ 5.98 mm (2/3")		13.57 mm × 13.68 mm (1")	11.26 mm $ imes$ 11.26 mm (1")		
Sensor Type	High Speed CMOS Image Sensor					
Pixel Size	5.5 μ m $ imes$ 5.5 μ m		$8.0~\mu\mathrm{m} imes 8.0~\mu\mathrm{m}$	5.5 μ m $ imes$ 5.5 μ m		
Interface	Camera Link					
Max. Frame Rate	2 Tap: 74.4 fps		2 Tap: N/A	2 Tap: 39.6 fps		
	4 Tap: 148.5 fps		4 Tap: N/A	4 Tap: 78.9 fps		
	8 Tap: N/A	8 Tap: 295.4 fps	8 Tap: 227 fps	8 Tap: N/A	8 Tap: 157.1 fps	
	10 Tap: N/A	10 Tap: 337.6 fps	10 Tap: 284 fps	10 Tap: N/A	10 Tap: 179.5 fps	
Transfer Time	2 Tap: 13.44 ms		2 Tap: N/A	2 Tap: 25.3 ms		
	4 Tap: 6.73 ms		4 Tap: N/A	4 Tap: 12.67 ms		
	8 Tap: N/A	8 Tap: 3.38 ms	8 Tap: 4.41 ms	8 Tap: N/A	8 Tap: 6.37 ms	
	10 Tap: N/A	10 Tap: 2.96 ms	10 Tap: 3.51 ms	10 Tap: N/A	10 Tap: 5.58 ms	
Pixel Data Format	8 bit (2/4 Tap) 10 bit (2/4 Tap)	8 bit (2/4/8/10 Tap) 10 bit (2/4/8 Tap)	8 bit (8/10 Tap)	8 bit (2/4 Tap) 10 bit (2/4 Tap)	8 bit (2/4/8/10 Tap) 10 bit (2/4/8 Tap)	
Electronic Shutter	Global Shutter					
Data Output Pixel Clock Speed	85 MHz					
Trigger Mode	Free-Run, Trigger Programmable Exposure Time and Trigger Polarity					
Dynamic Range	60 dB					
Dimension / Weight	68 mm $ imes$ 68 mm $ imes$ 54 mm, 373 g (with C-mount)					
Temperature	Operating: 0°C ~ 40°C, Storage: −40°C ~ 70°C					
Lens Mount	C or F-mount					
Power	10 ~ 14 V DC Typ. 4 W	10 ~ 14 V DC Typ. 4 W	10 ~ 14 V DC Typ. 5 W	10 ~ 14 V DC Typ. 4 W	10 ~ 14 V DC Typ. 4 W	
Compliance		CE, FCC, KC (Application of VC-3MC in preparation)				
Configuration Software	Configurator					

VC-2MC / VC-3MC / VC-4MC

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Quantum Efficiency Curves



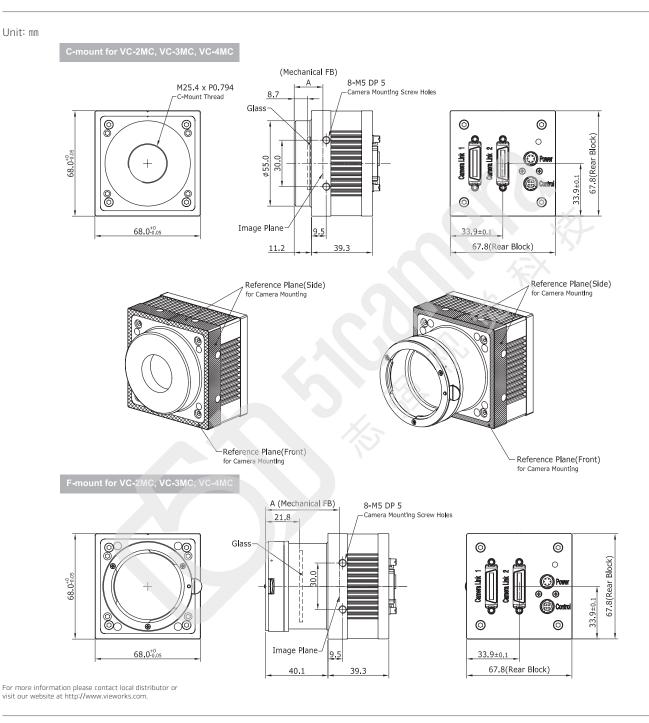


Connectors on camera body

VC-2MC / VC-3MC / VC-4MC

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Mechanical Dimensions



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