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.



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

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

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

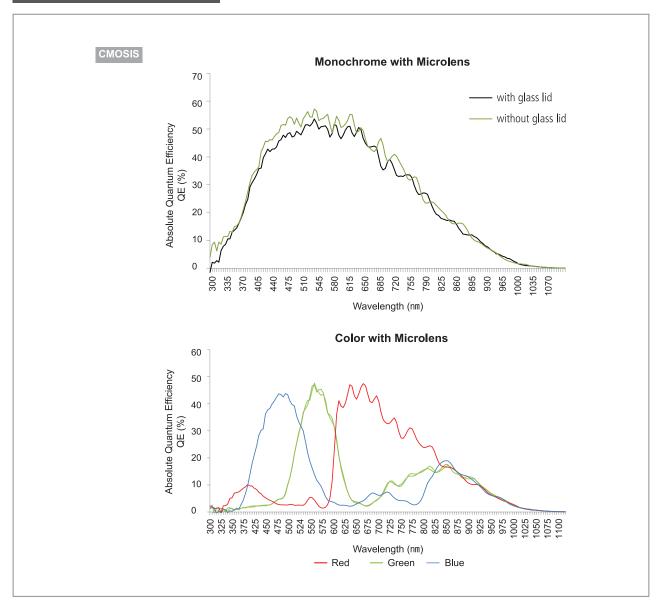
Applications

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

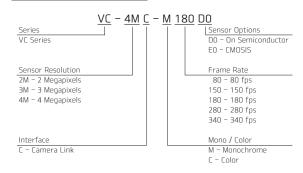
Specifications

Model	VC-2MC-M/C 150	VC-2MC-M/C 340	VC-3MC-M/C 280	VC-4MC-M/C 80	VC-4MC-M/C 180
Resolution (H $ imes$ V)	2048 × 1088		1696 × 1710	2048	× 2048
Sensor	CMOSIS CMV 2000		On Semiconductor LUPA 3000	CMOSIS	5 CMV 4000
Sensor Size (Optical Format)	11.26 mm \times 5.98 mm (2/3")		$13.57 \text{ mm} \times 13.68 \text{ mm}$ (1")		× 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 fp:
	10 Tap: N/A	10 Tap: 337.6 fps	10 Tap: 284 fps	10 Tap: N/A	10 Tap: 179.5 fp
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 Ta 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 \times 68 mm \times 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)				
onfiguration Software	Configurator				

Quantum Efficiency Curves



Ordering Scheme



Connector Specification



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



1: Trigger IN+, 2: Trigger IN-3: DC Ground, 4: Strobe OUT+ (HR10A-7R-4S)

Connectors on camera body

Mechanical Dimensions

Unit: mm

