

# VC-12MC-M/C 65 VC-25MC-M/C 30

### UP TO 25 MEGAPIXELS RESOLUTIONS, GLOBAL ELECTRONIC SHUTTER, HIGH-SPEED CMOS DIGITAL CAMERA



The VC-12MC and VC-25MC, the latest members of the CMOS-based VC series, are our new high resolution CMOS cameras with Camera Link interface. The VC-12MC uses the latest 12 megapixel CMOS sensor (CMV12000) technology from CMOSIS, and performs as fast as 64 fps with high quality image. The VC-25MC is based on ON Semiconductor VITA-25K CMOS sensor delivering high quality 25 megapixel images at 30 fps. With their high resolution and fast speed, these cameras are ideal for applications such as PCB inspection, AOI machines, 3D inspection and many others.

#### **Main Features**

- \* Resolutions from 12MP up to 25MP
- \* 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 and Heat Treatment
- \* Field Upgradable Firmware
- \* Pixel Defect Correction

### **Applications**

- \* PCB Inspection
- \* Semiconductor Inspection
- \* 3D Inspection
- \* Scientific Research Imaging

## machinevision.vieworks.com



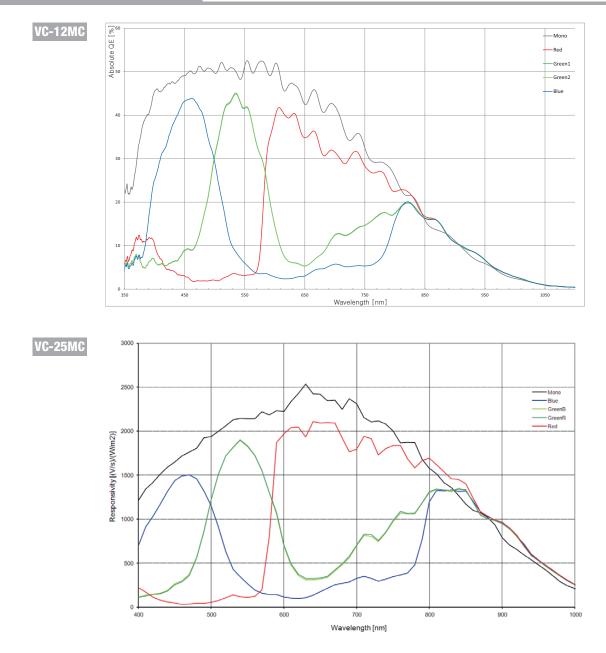
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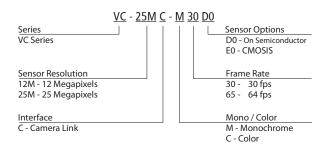
## **Specifications**

ModelVC-12MC-M/C 65VC-25MC-M/C 30Resolution (H×V)4096 × 30725120 × 5120SensorCMOSIS CMV 12000On Semiconductor VITA-25KSensor Size22.5 mm × 16.9 mm23.04 mm × 23.04 mm(Optical Format)(Diagonal: 28.14 mm, APS-like)(35 mm)Sensor TypeHigh Speed CMOSIS(35 mm)Pixel Size5.5 μm × 5.5 μm4.5 μm × 4.5 μmInterfaceCamera LinkCamera LinkMax. Frame Rate8 Tap: 51.7 fps8 Tap: 25.3 fps10 Tap: 64.3 fps10 Tap: 30.8 fps	
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10 Tap: 64.3 fps 10 Tap: 30.8 fps	
8 Tap: 19.4 ms 8 Tap: 39.42 ms	
Transfer Time10 Tap: 15.6 ms10 Tap: 32.47 ms	
Pixel Data Format 8 bit (8/10 Tap)	
Pixel Data Format 10 bit (8 Tap)	
Electronic Shutter Global Shutter	
Data Output 85 Mb	
Pixel Clock Speed	
Trigger Mode	
Programmable Exposure Time and Trigger Polarity	
Dynamic Range 60 dB 54 dB	
Dimension / Weight 68 mm × 68 mm × 54 mm, 420 g (F-mount) 68 mm × 68 mm × 80 mm, 430 g (F-mount)	unt)
Temperature Operating: 0°C ~ 40°C, Storage: -30°C ~ 65°C	
Lens Mount C or F-mount	
Power 10 ~ 14 V DC, MAX. 6 W	
Configuration Configurator	

## **Quantum Efficiency Curves**



## **Ordering Scheme**



## **Connector Specification**

#### Power



#### Control



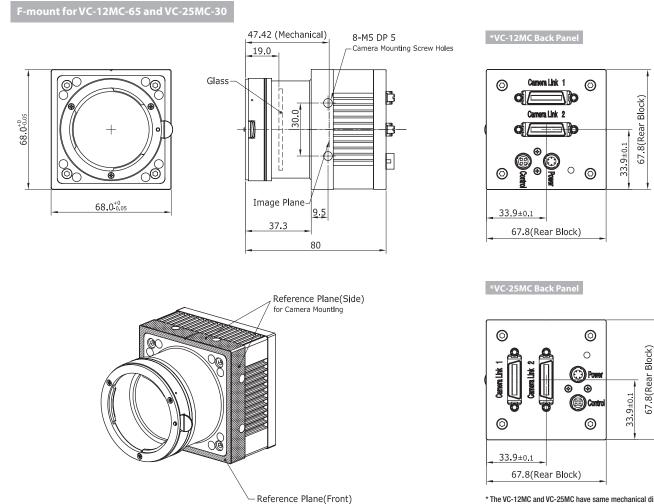
1 2 3:+12V DC, 4 5 6:GND (HR10A-7R-6PB)

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

Connectors on camera body

## Mechanical Dimensions

#### Unit : mm



for Camera Mounting

\* The VC-12MC and VC-25MC have same mechanical dimension but the directions of the connectors on the back panel are different.

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#### ISO-9001, ISO-13485

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