

# VC-12MC-M/C 65

# VC-25MC-M/C 30

# VC-25MC-M/C 30 D

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



The VC-12MC-65, VC-25MC-30 and VC-25MC-30 D, 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-30 is based on ON Semiconductor VITA-25K CMOS sensor delivering high quality 25 megapixel images at 30 fps. The VC-25MC-30 D uses the latest 25 megapixel CMOS image sensor (PYTHON-25K) technology from On Semiconductor, and delivers high quality 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.

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# VC-12MC-65 / VC-25MC-30 / VC-25MC-30 D

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## 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

## Specifications

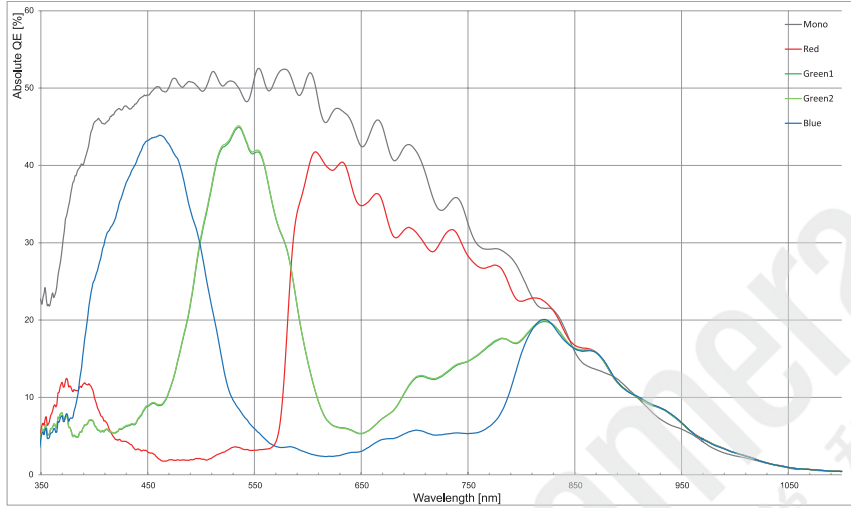
Model	VC-12MC-M/C 65	VC-25MC-M/C 30	VC-25MC-M/C 30 D
Resolution (H × V)	4,096 × 3,072	5,120 × 5,120	5,120 × 5,120
Sensor	CMOSIS CMV 12000	On Semiconductor VITA-25K	On Semiconductor PY-THON-25K
Sensor Size (Diagonal)	22.5 mm × 16.9 mm (28.1 mm)	23.04 mm × 23.04 mm	23.04 mm × 23.04 mm (32.6 mm)
Sensor Type	High Speed CMOS Image Sensor		
Pixel Size	5.5 μm × 5.5 μm	4.5 μm × 4.5 μm	
Interface	Camera Link		
Max. Frame Rate	2 Tap: 13.0 fps 4 Tap: 26.0 fps 8 Tap: 51.7 fps 10 Tap: 64.3 fps	2 Tap: N/A 4 Tap: N/A 8 Tap: 25.0 fps 10 Tap: 30.9 fps	2 Tap: N/A 4 Tap: N/A 8 Tap: 25.3 fps 10 Tap: 30.1 fps
Transfer Time	2 Tap: 76.9 ms 4 Tap: 38.5 ms 8 Tap: 19.4 ms 10 Tap: 15.6 ms	2 Tap: N/A 4 Tap: N/A 8 Tap: 40.0 ms 10 Tap: 32.3 ms	2 Tap: N/A 4 Tap: N/A 8 Tap: 39.5 ms 10 Tap: 33.2 ms
Pixel Data Format	8 bit (2/4/8/10 Tap), 10 bit (2/4/8 Tap)		
Electronic Shutter	Global Shutter		
Digital Gain	1 × ~ 32 ×		
Black Level Control	0 – 255 LSB at 12 bit (1 LSB step)		
Trigger Mode	Free-Run, Trigger, Programmable Exposure Time and Trigger Polarity		
Data Output Pixel Clock Speed	85 MHz		
Dynamic Range	60 dB	54 dB	59 dB
Dimension / Weight	68 mm × 68 mm × 80 mm, 432 g (F-mount)		
Temperature	Operating: 0°C ~ 40°C, Storage: -40°C ~ 70°C		
Lens Mount	F-mount, Custom mount available upon request		
Power	10 ~ 14 VDC, Typ. 5 W	10 ~ 14 VDC, Typ. 6 W	10 ~ 14 VDC, Typ. 7 W
Compliance	CE, FCC, KC, UL	CE, FCC, KC	

# VC-12MC-65 / VC-25MC-30 / VC-25MC-30 D

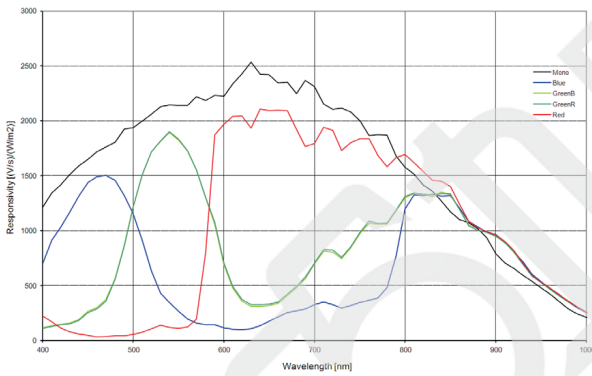
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## Spectral Response

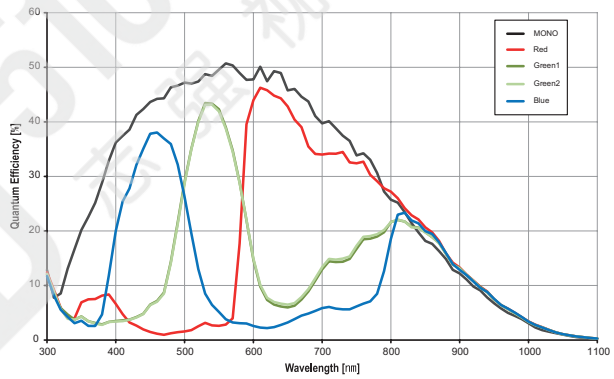
VC-12MC-65



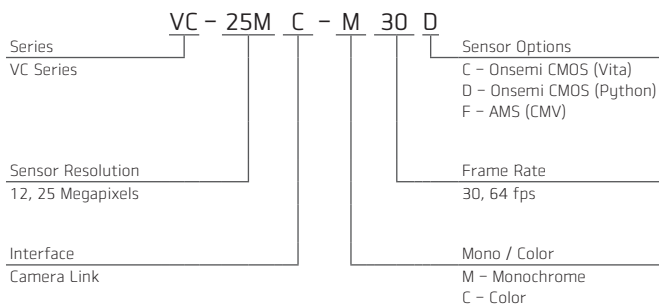
VC-25MC-30



VC-25MC-30 D



## 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: DC Ground, 4: Strobe OUT+  
(HR10A-7R-4S)

Connectors on camera body

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## Mechanical Dimensions

Unit: mm

F-mount for VC-12MC-65, VC-25MC-30 and VC-25MC-30 D

