VC-65MX-M/C 35 I
VC-65MX-M/C 31 I

65 Megapixel High Speed CMOS Digital Camera

The VC-65MX-31 I and VC-65MX-35 I, the latest models of the industrial proven VC series, are new 65 megapixel CoaXPress cameras and based on the latest CMOS image sensor technology (GMAX3265) from Gpixel. The VC-65MX-31 I offers up to 31.6 frames per second at 9344 × 7000 resolution. For high speed applications, the VC-65MX-35 I offers up to 35.5 frames per second at 9344 × 7000 resolution.

Equipped with the Vieworks' innovative technologies proved by world's top FPD manufacturers, the VC-65MX cameras offer not only highly uniformed images but also high speed image processing capabilities. Featured with high quality image uniformity and high resolution, these cameras are ideal for demanding applications such as FPD, PCB and semiconductor inspections.

VC-65MX-M/C 35 I / VC-65MX-M/C 31 I

65 Megapixel High Speed CMOS Digital Camera

Main Features

- 65 Megapixel Resolution
- CoaXPress Interface up to 35.5 fps at 25 Gbps using 4 CH
- Global Shutter CMOS Technology
- DSNU and PRNU Correction
- Flat Field Correction
- Defective Pixel Correction
- Hot Pixel Correction
- GenICam Compatible – XML based Control

Applications

- Flat Panel Display Inspection
- Electronics Inspection
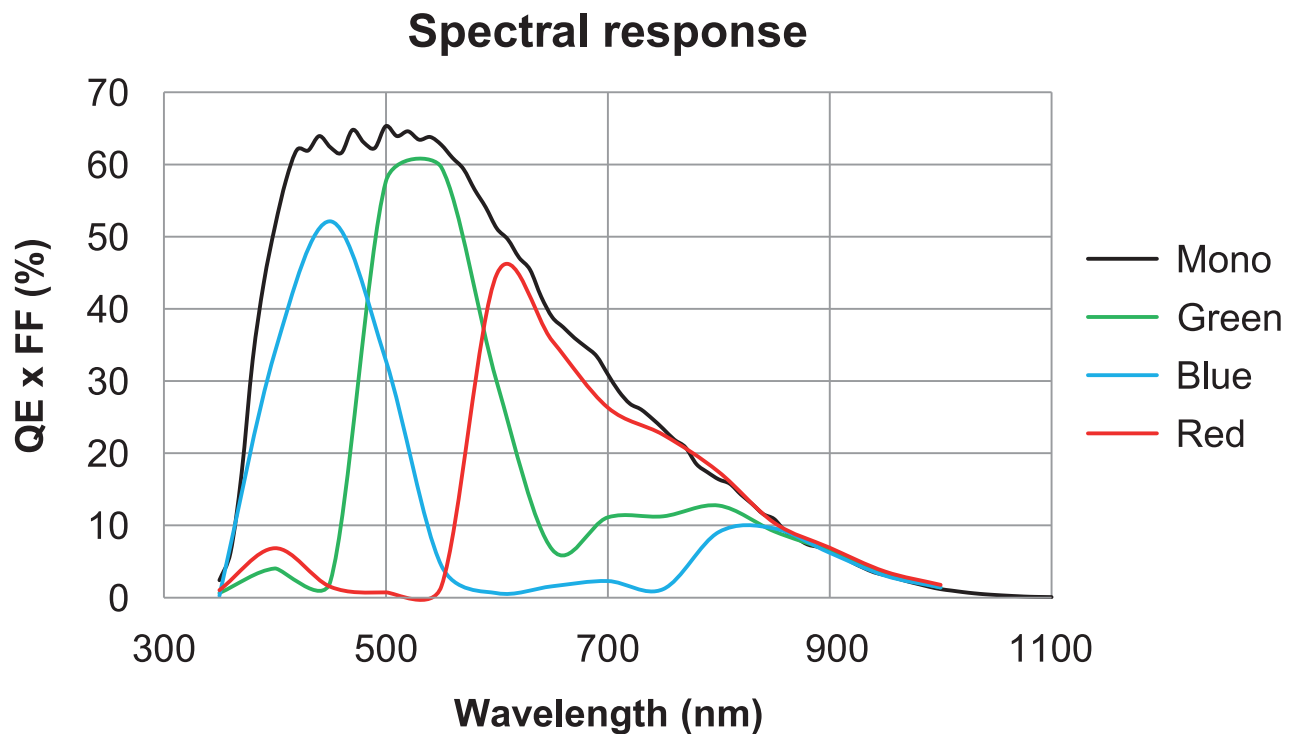- Semiconductor Inspection
- Document / Film Scanning

Specifications

Model		VC-65MX-M/C 31 I	VC-65MX-M/C 35 I
Resolution (H × V)		9344 × 7000	
Sensor		Gpixel GMAX3265 – Normal Speed	Gpixel GMAX3265 – High Speed
Sensor Size (Diagonal)		29.9 ㎜ × 22.4 ㎜ (37.4 ㎜)	
Pixel Size		3.2 ㎛ × 3.2 ㎛	
Interface		CoaXPress	
Max. Frame Rate		4 CH: 31.6 fps @ 8 bit	4 CH: 35.5 fps @ 8 bit
		4 CH: 27.3 fps @ 10 bit	4 CH: 27.5 fps @ 10 bit
		4 CH: 24.1 fps @ 12 bit	N/A @ 12 bit
		4 CH: 31.6 fps @ 8 bit (2×2 Binning)	4 CH: 71.1 fps @ 8 bit (2×2 Binning)
Exposure Time (1 ㎲ step)		14 ㎲ – 60 s	12 ㎲ – 60 s
Partial Scan (Max. Speed)		6349.2 fps at 4 Lines	7142.8 fps at 4 Lines
Binning		2 × 2 Binning	
Pixel Data Format	Mono	Mono 8 / Mono 10 / Mono 12	Mono 8 / Mono 10
	Color	GB Bayer 8 / GB Bayer 10 / GB Bayer 12	GB Bayer 8 / GB Bayer 10
Electronic Shutter		Global Shutter	
Trigger Synchronization		Free-Run, Hardware Trigger, Software Trigger or CXP	
External Trigger		3.3 V ~ 24.0 V, 10 ㎃, Logical Level Input, Optically Isolated	
Software Trigger		Asynchronous, Programmable via Camera API	
Dynamic Range		66 dB @ 12 bit	62 dB @ 10 bit
Gain Control		1× ~ 32×	
Black Level Control		0 ~ 255 LSB at 12 bit	0 ~ 63 LSB at 10 bit
Dimension / Weight		80 ㎜ × 80 ㎜ × 103 ㎜, 750 g (with F-mount)	
Temperature		Operating: 0℃ ~ 40℃, Storage: -40℃ ~ 70℃	
Lens Mount		F-mount, Custom mount available upon request	
Power	External	11 ~ 24 V DC	
	Dissipation	Typ. 13.5 W	Typ. 17.5 W
	PoCXP	24 V DC, Minimum of two PoCXP cables required	
Compliance		CE, FCC, KC	
API SDK		Vieworks Imaging Solution 7.X	

Spectral Response

Spectral response

Ordering Scheme

VC – 65M X – M 35 I

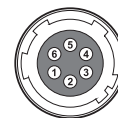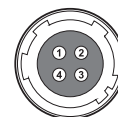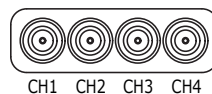|		
Series		Sensor Options
VC Series		I – Gpixel CMOS
Sensor Resolution		Frame Rate
65M – 65 Megapixels		35 – 35.5 fps
		31 – 31.6 fps
Interface		Mono / Color
X – CoaXPress		M – Monochrome
		C – Color
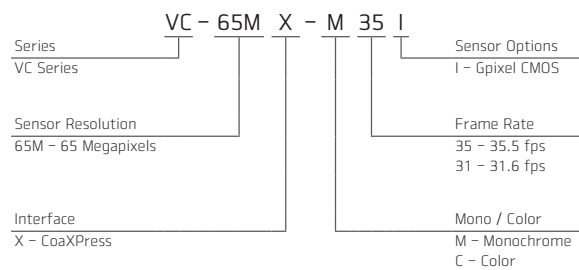
Connector Specification

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)

Data Transfer / Communications

CH1: Master Connection
75 Ω, DIN 1.0/2.3

CH1 CH2 CH3 CH4

Connectors on camera body

Mechanical Dimensions

Unit: ㎜

80.0$^{+0.08}_{+0.02}$

68.0

4-R3.5

80.0$^{+0.08}_{+0.02}$

68.0

8-M5 DP 7
Camera Mounting Screw Holes

103

46.5 (Optical FB)

47.49±0.2 (Mechanical FB)

8.6

36.6

55.0

Glass

Image Plane

8-M5 DP 7
Camera Mounting Screw Holes

PWR   CTRL

CH4
CH3
CH2
CH1

FAN

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