

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

65 Megapixel High Speed CMOS Digital Camera



CoaXPress®

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.

VIEWORKS

www.vieworks.com

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

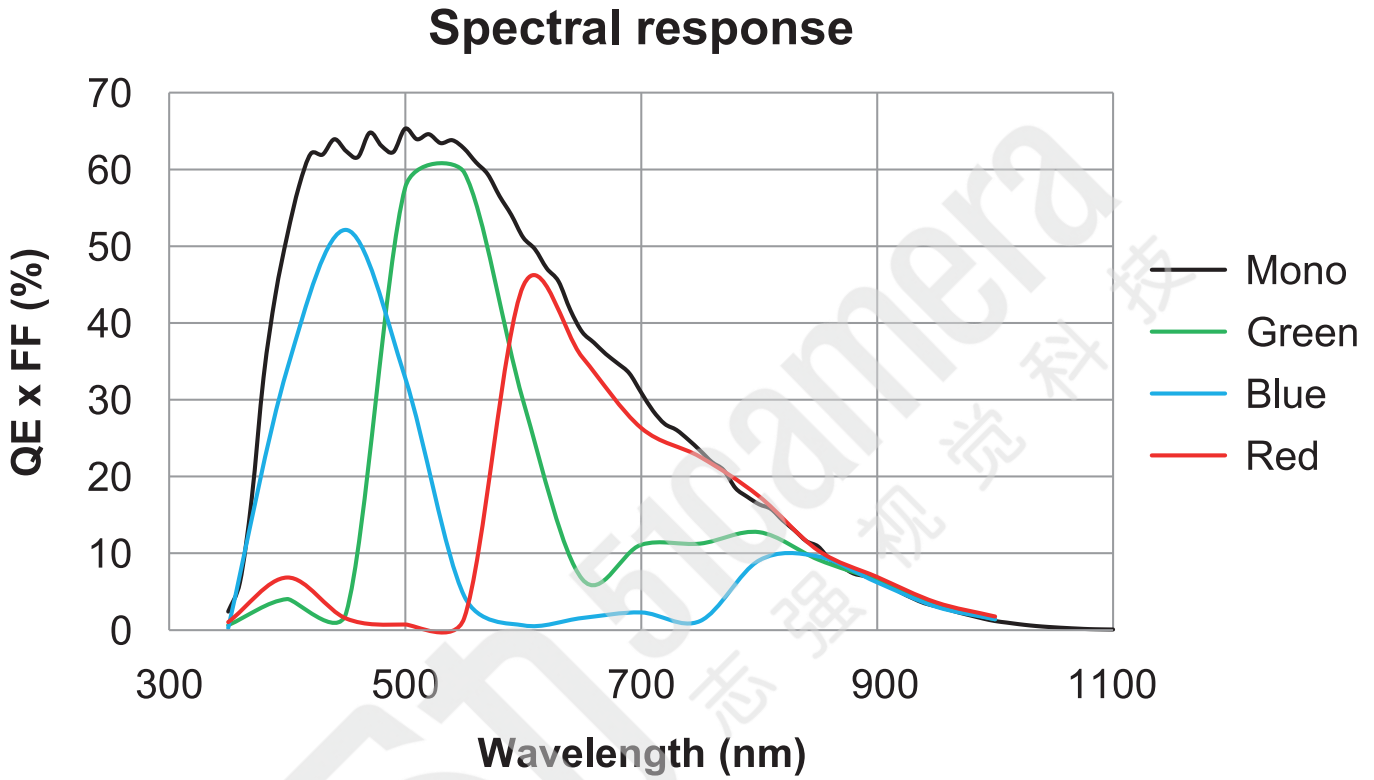
Specifications

| 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 mm × 22.4 mm (37.4 mm) | |
| Pixel Size | | 3.2 μm × 3.2 μm | |
| 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 μs step) | | 14 μs – 60 s | 12 μs – 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 mA, 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 mm × 80 mm × 103 mm, 750 g (with F-mount) | |
| Temperature | | Operating: 0°C ~ 40°C, Storage: -40°C ~ 70°C | |
| 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 | |

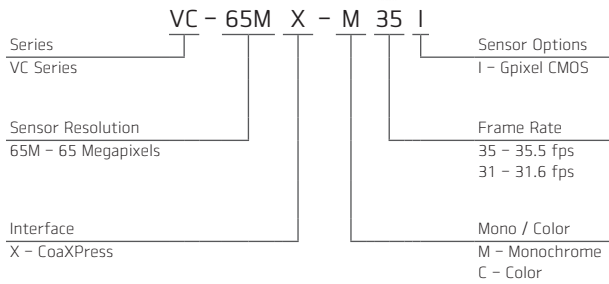
VC-65MX-M/C 35 I / VC-65MX-M/C 31 I

65 Megapixel High Speed CMOS Digital Camera

Spectral Response

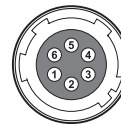


Ordering Scheme



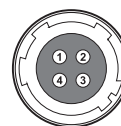
Connector Specification

Power



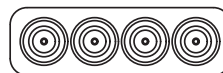
1, 2, 3: +12V DC
4, 5, 6: GND
(HR10A-7R-6PB)

Control



1: Trigger IN+
2: Trigger IN-
3: Strobe Out-(GND)
4: Strobe Out+
(HR10A-7R-4S)

Data Transfer / Communications



CH1 CH2 CH3 CH4

CH1: Master Connection
75 Ω, DIN 1.0/2.3

Connectors on camera body

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

65 Megapixel High Speed CMOS Digital Camera

Mechanical Dimensions

Unit: mm

