VC-25MC-M/C 31 I

25 Megapixel High Speed CMOS Digital Camera



The VC-25MC-31 I, the latest model of the industrial proven VC series, is a new 25 megapixel resolution CMOS camera with the Camera Link interface. The VC-25MC-31 I uses the latest CMOS global shutter image sensor (GMAX0505) technology from Gpixel and offers up to 31.7 frames per second at 5120 × 5120 resolution. These combinations of high resolution, high speed and global shutter set a new standard for industrial, scientific and surveillance digital imaging applications. Equipped with the Vieworks' innovative technologies proved by world's top FPD manufacturers, the VC-25MC-31 I camera offers not only highly uniformed images but also high speed image processing capabilities. Featured with high quality image uniformity and high resolution, this camera is ideal for wide range of demanding applications such as FPD, PCB and semiconductor inspections.



Main Features

- 25 Megapixel Resolution
- Camera Link Full Interface up to 31.7 fps
- Global Shutter CMOS Technology
- DSNU and PRNU Correction
- Flat Field Correction
- GenlCam Compatible XML based Control

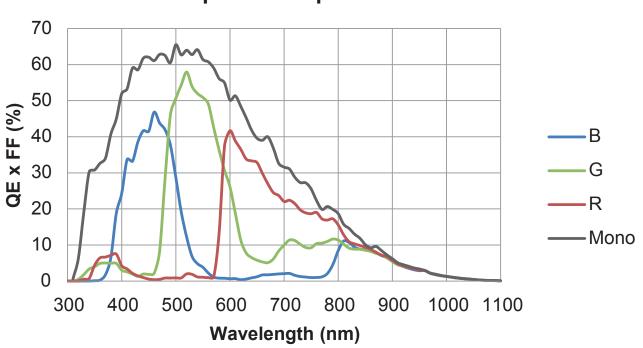
Applications

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

Specifications

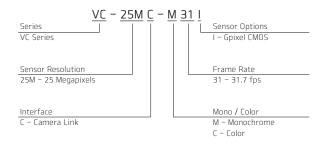
| Model | | VC-25MC-M/C 31 I |
|--------------------------------|-------------|---|
| Resolution (H $	imes$ V) | | 5120 × 5120 |
| Sensor | | Gpixel GMAX0505 |
| Sensor Size (Diagonal) | | 12.8 mm $	imes$ 12.8 mm (18.1 mm) |
| Pixel Size | | 2.5 μ m $	imes$ 2.5 μ m |
| Interface | | Camera Link Base / Medium / Full / 10 Tap, 26-pin SDR Connector |
| Max. Frame Rate | | 2 Tap: 6.4 fps |
| | | 4 Tap: 12.7 fps |
| | | 8 Tap: 25.2 fps |
| | | 10 Tap: 31.7 fps |
| Exposure Time (1 μ s step) | | 1 µs - 60 s |
| Partial Scan (Max. Speed) | | 546.4 fps at 64 $	imes$ 2 |
| Pixel Data Format | Mono | Mono 8 / Mono 10 / Mono 12 |
| | Color | GB Bayer 8 / GB Bayer 10 / GB Bayer 12 |
| Electronic Shutter | | Global Shutter |
| Trigger Synchronization | | Free-Run, Hardware Trigger or CC1 |
| External Trigger | | 3.3 V \sim 24.0 V, 10 mA, Logical Level Input, Optically Isolated |
| Dynamic Range | | 65 dB |
| Gain Control | | 1×~32× |
| Black Level Control | | 0 ~ 255 LSB at 12 bit |
| Dimension / Weight | | 50 mm $	imes$ 50 mm $	imes$ 54 mm, 215 g (with C mount) |
| Temperature | | Operating: 0°C ~ 40°C, Storage: −40°C ~ 70°C |
| Lens Mount | | C-mount, Custom mount available upon request |
| Power | External | 11 ~ 24 V DC |
| | Dissipation | Typ. 6.0 W |
| Compliance | | CE, FCC, KC |
| | | |

Spectral Response



Spectral response

Ordering Scheme



Connector Specification

Power / Control



 1: DC Ground
 2: +12 V DC

 3: I/O Output 4: I/O Output+

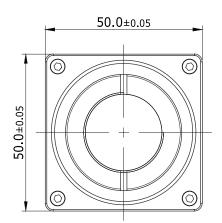
 5: Trigger IN 6: Trigger IN+

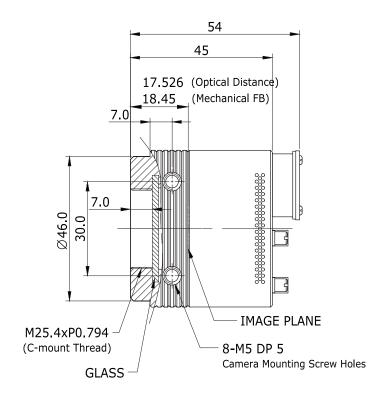
 7~12: Not Connected
 (HR10A-10R-12PB)

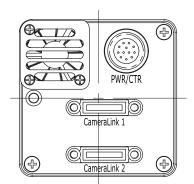
Connectors on camera body

Mechanical Dimensions

Unit: mm







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