VC-12MX-M/C 180 VC-25MX-M/C 72

HIGH SPEED & HIGH RESOLUTION CMOS DIGITAL CAMERA WITH COAXPRESS INTERFACE



Coa Press[®]

The VC-12MX and VC-25MX, the latest members of industrial proven VC series, are based on the latest CMOS global shutter imagers. The VC-12MX features 12 megapixel resolutions with frame rate up to 180 fps and the VC-25MX features 25 megapixel resolutions with frame rate up to 72 fps. These combinations of resolution, frame rate, and global shutter set a new standard for Industrial, Scientific, and Surveillance digital imaging applications. Customers in the industrial market can take advantage of common coax cabling to transmit images at rates and distance above and beyond previous standards. With these cameras, image data can be transmitted at up to 6.25 Gbps using a single coaxial cable and up to 25 Gbps using four cables. This high speed and high resolution model is ideal for wide range of demanding applications including PCB and semiconductor inspections.



Main Features

- * 12 & 25 Megapixels Resolution
- * High-Speed Progressive Scan CMOS Imager
- * Global Shutter CMOS Technology
- CoaXPress Interface up to 180 fps at 25 Gbps using 4 CH (VC-12MX)
- * Flat Field Correction
- * DSNU and PRNU Correction (VC-25MX)
- * Low Noise with Optimized Heat Treatment

Specifications

Model VC-12MX-M/C 180 VC-25MX-M/C 72 Resolution ($H \times V$) 4096×3072 5120×5120 Sensor CMOSIS CMV 12000 On Semiconductor VITA-25K 23.04 mm \times 23.04 mm Sensor Size $22.5 \text{ mm} \times 16.9 \text{ mm}$ (Optical Format) (Diagonal: 28.14 mm, APS-like) (35 mm) Sensor Type High Speed CMOS Image Sensor Pixel Size $5.5 \mu m \times 5.5 \mu m$ $4.5 \ \mu m \times 4.5 \ \mu m$ CoaXPress Interface 1 CH: 45 fps @ 6.25 Gbps 1 CH: N/A 2 CH: 90 fps @ 6.25 Gbps 2 CH: 46 fps @ 6.25 Gbps Max. Frame Rate 4 CH: 180 fps @ 6.25 Gbps 4 CH: 72 fps @ 6.25 Gbps Exposure Time⁺ (1 μ s step) 43 µs - 60 s 1 µs - 60 s Partial Scan (Max. Speed) 11494 fps at 4 Lines 7692 fps at 4 Lines (H: 256) Pixel Data Format 8 bit 8 bit, 10 bit Electronic Shutter Global Shutter ×1 ~ ×4 Gain Control Black Level Control 0 - 16 LSB at 8 bit, 0 -64 LSB at 10 bit Exposure Mode Free-Run, Timed, Trigger Width Dynamic Range 54 dB Dimension / Weight 80 mm × 80 mm × 101 mm, 620 q (F-mount) 80 mm × 80 mm × 101 mm, 630 q (F-mount) Temperature Operating: -5℃ ~ 40℃, Storage: -40℃ ~ 70℃ Lens Mount F-mount Adapter 10 ~ 38 V DC, Typ. 12 W 10 ~ 38 V DC, Typ. 10.5 W Power PoCXP 24 V DC, Minimum of two PoCXP cables required Compliance CE, FCC, KC API SDK Vieworks Imaging Solution 7.X

† The minimum actual exposure time varies depending on the camera model.

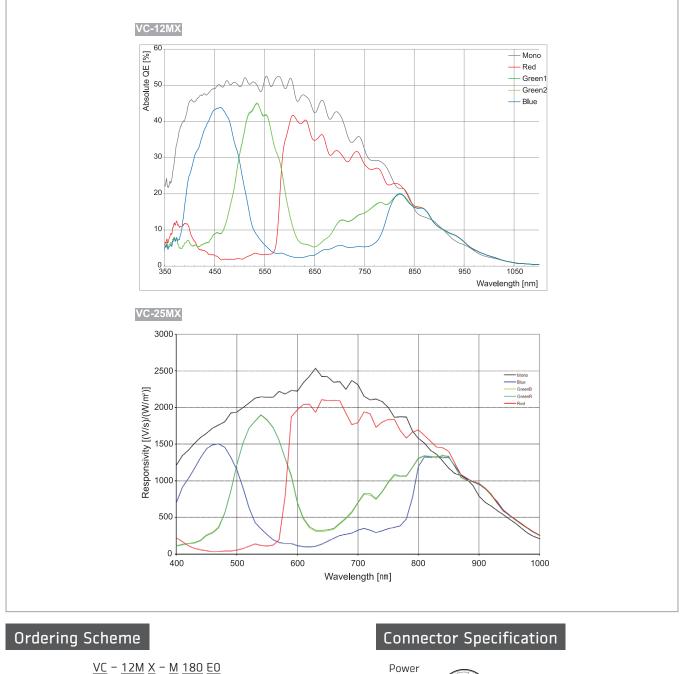
Applications

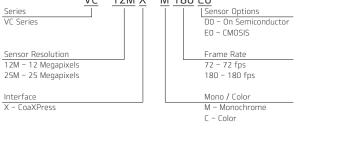
- * PCB Inspection
- * Semiconductor Inspection
- * 3D Inspection
- * High–end Surveillance

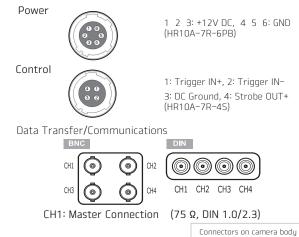
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Quantum Efficiency Curves



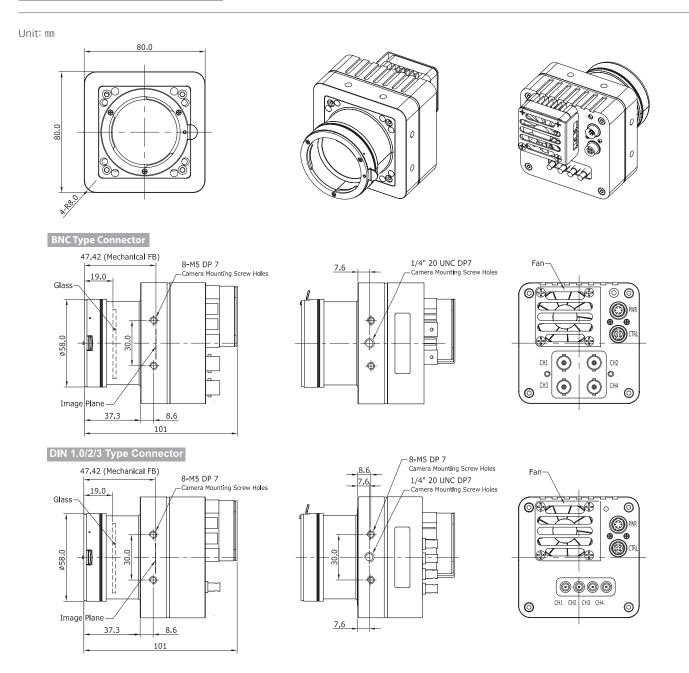




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Mechanical Dimensions



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