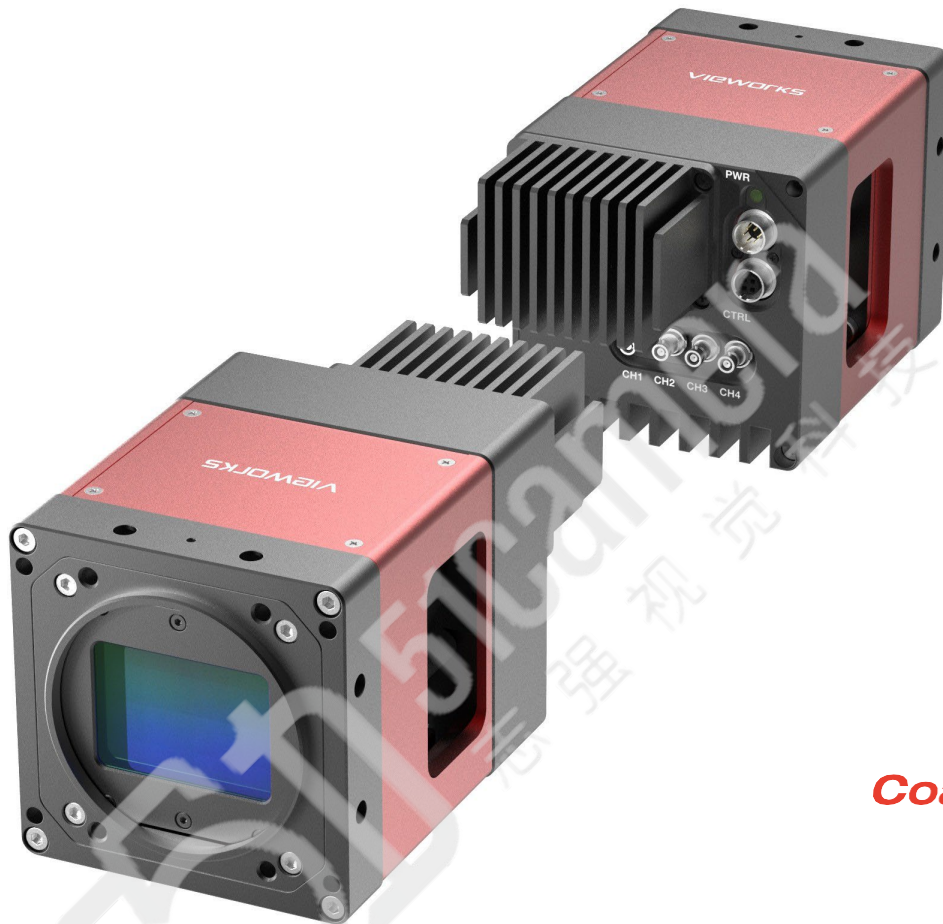


VP-51MX2-M/C30I00

51-Megapixel Thermoelectric Peltier Cooled Camera
with COaXPress 2.0 Interface



CoaXPress®

The VP-51MX2-M/C30I00 is a new 51-megapixel CoaXPress camera based on GMAX4651, the latest CMOS image sensor technology, from Gpixel. It offers up to 30 frames per second at $8,416 \times 6,032$ resolution. The Thermoelectric Peltier Cooling (TEC) technology, featured in this camera, is designed for use in various medical fields and maintains the image sensor's operating temperature at up to 15°C below ambient temperature. It provides a stable operating capability and high resolution that are ideal for demanding applications such as FPD, PCB, and semiconductor inspections.

VIEWWORKS

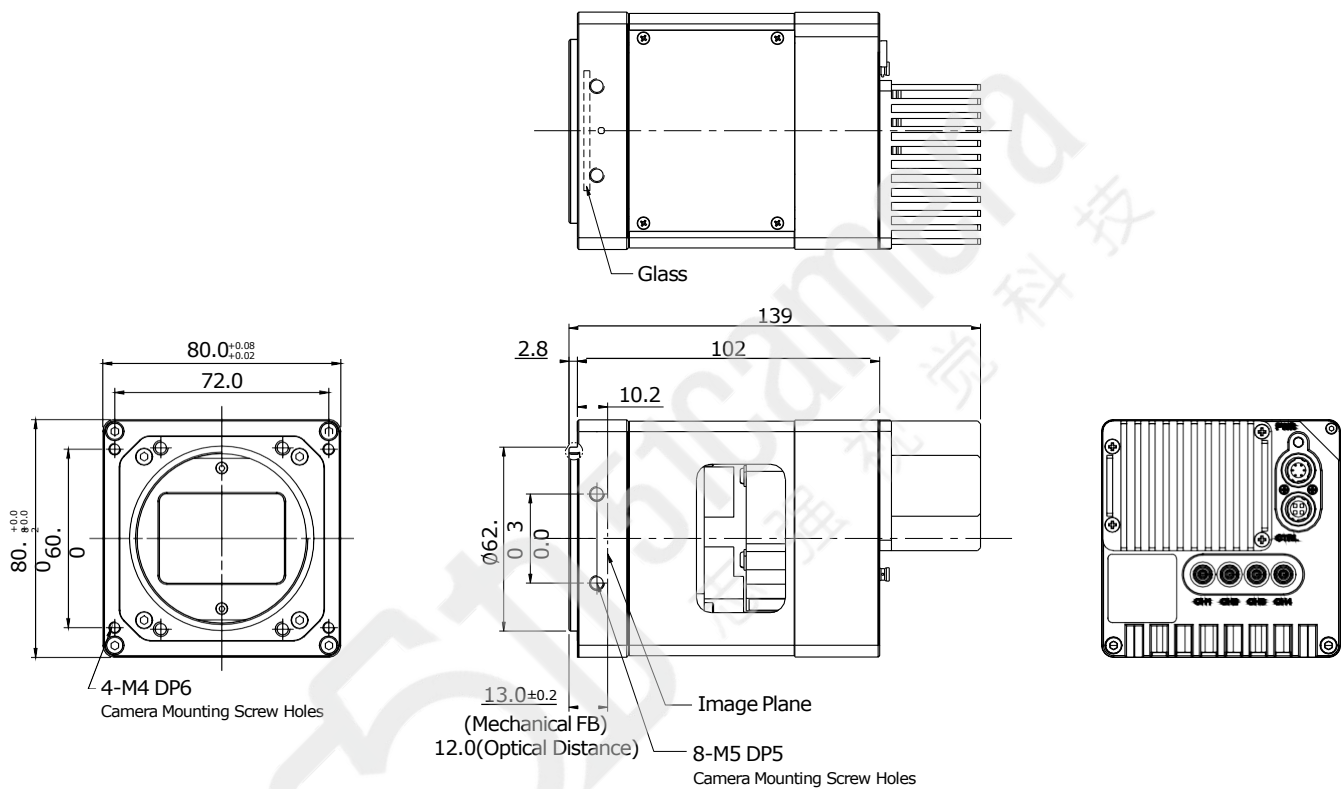
vision.vieworks.com

VP-51MX2-M/C30I00

Ultra High Resolution CMOS Digital Camera

Mechanical Dimensions

Unit: mm



VP-51MX2-M/C30I00

Ultra High Resolution CMOS Digital Camera

Main Features

- ☑ Thermoelectric Peltier Cooled – 15°C below
- ☑ 51-Megapixel Resolution
- ☑ CoaXPress 2.0 Interface up to 30 fps at 50 Gbps using 4 Channels
- ☑ Global Shutter CMOS Technology
- ☑ DSNU and PRNU Correction
- ☑ Flat Field Correction
- ☑ Defective Pixel Correction

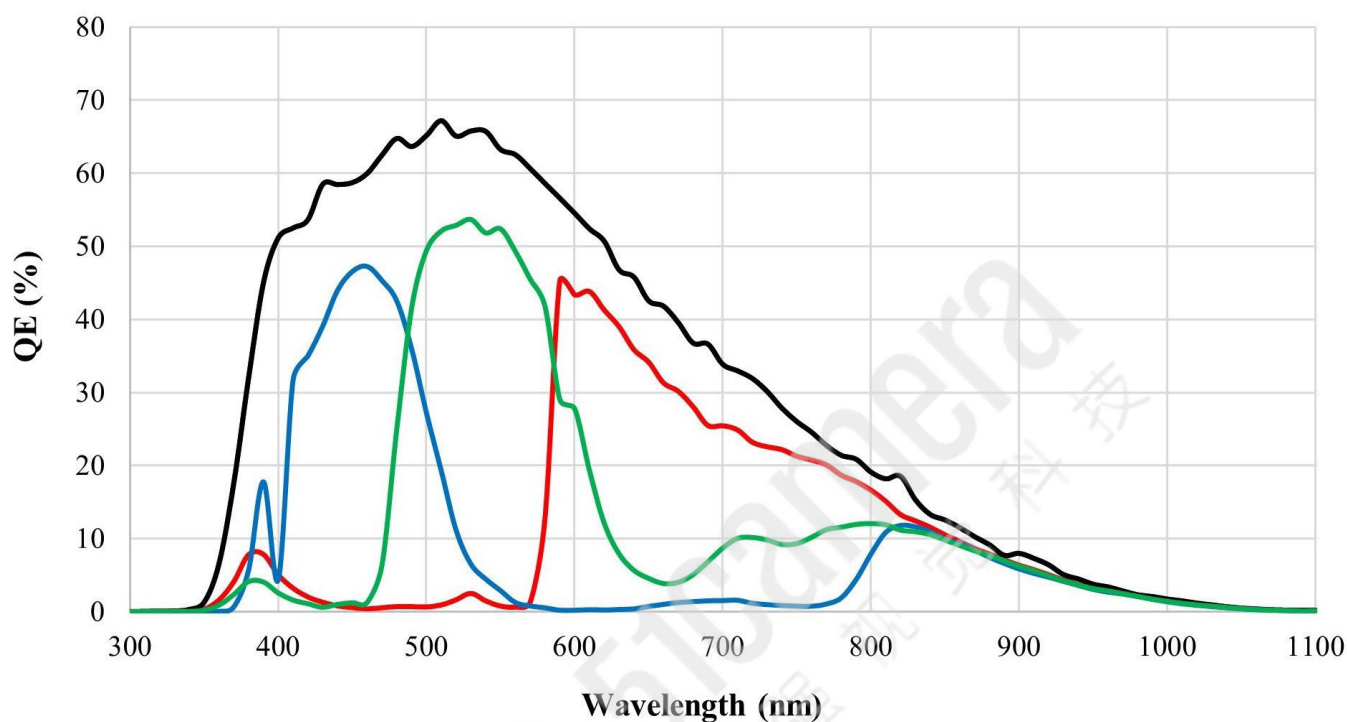
Applications

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

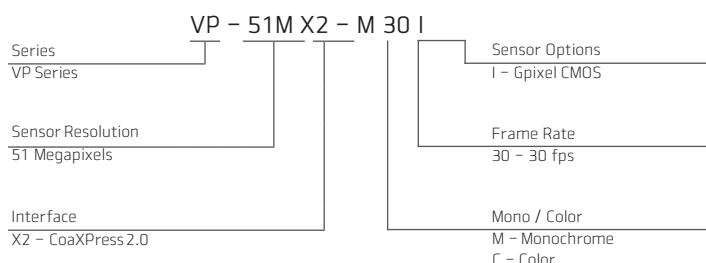
Specifications

Model		VP-51MX2-M/C30I00
Resolution (H × V)		8,416 × 6,032
Sensor		GMAX4651
Sensor Size (Diagonal)		38.8 mm × 27.8 mm (47.63 mm)
Pixel Size		4.6 μm × 4.6 μm
Interface		CoaXPress 2.0 (CXP-6/10/12)
Max. Frame Rate (8 bit)		30.3 fps
Exposure Time (1 μs step)		1 μs to 20 s
Binning		Horizontal and Vertical Independent: ×1, ×2, and ×4(Mono Only)
Pixel Data	Monochrome	8/10/12 bit
Format	Color	RG Bayer 8/10/12 bit
Electronic Shutter		Global Shutter
Exposure Mode		Timed, Trigger Width
Dynamic Range		65 dB at 12 bit
Gain Control	Analog	×3.5 to ×5
	Digital	×1 to ×32
Black Level Control		0 to 256 LSB at 12 bit
Dimension / Weight		80 mm × 80 mm × 139 mm, 1.08kg
Temperature		Operating: 0°C to 40°C, Storage: -40°C to 70°C
Trigger Synchronization		Free-Run, Hardware Trigger, Software Trigger, and CXP
External Trigger		3.3 V to 24.0 V, 10 mA, Logical Level Input, Optically Isolated
Software Trigger		Asynchronous, Programmable via Camera API
Lens Mount		M58 mount, F-mount adapter, or custom mount available upon request
Power	External	11 to 24 V DC
	Dissipation	Typ.23 W
	PoCXP	24 V DC, Minimum 2 of PoCXP cables required
Compliance		CE, FCC, KC
API SDK		Viewworks Imaging Solution 7.X

Spectral Response

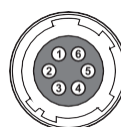


Ordering Scheme



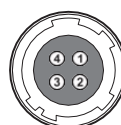
Connector Specification

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

Micro-BNC



CH1 CH2 CH3 CH4

CH1: Master Connection
75 Ω , Micro-BNC (HD-BNC)

Connectors on camera body