

MV-CL161-B1Y4M

16384 P CoaXPress Mono Line Scan Camera



GEN< i >CAM

Introduction

MV-CL161-B1Y4M line scan camera adopts 16384 × 1 CMOS sensor and supports transmission via CoaXPress interfaces. Its max. line rate reaches 200 kHz. It adopts multiple ISP image processing technologies, featured with high speed, high accuracy, and high performance.

Key Features

- Supports multi-light control, multi exposure modes, TDI, etc.
- Adopts multiple ISP like Gamma, flat field correction, LUT, black level, etc.
- Adopts bi-directional I/O connection, flexible configuration for input/output.
- Provides CXP-12 interface to transmit data.
- Compact design and flexible installation.
- Compatible with CoaXPress protocol and GenICam standard.

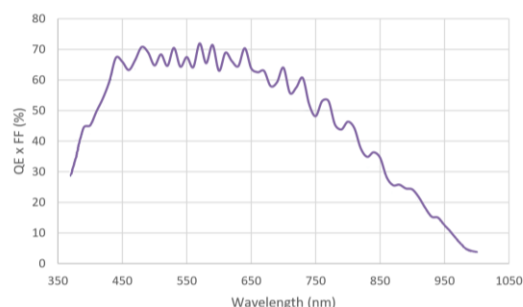
Available Model

MV-CL161-B1Y4M

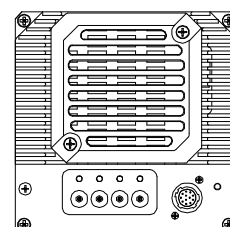
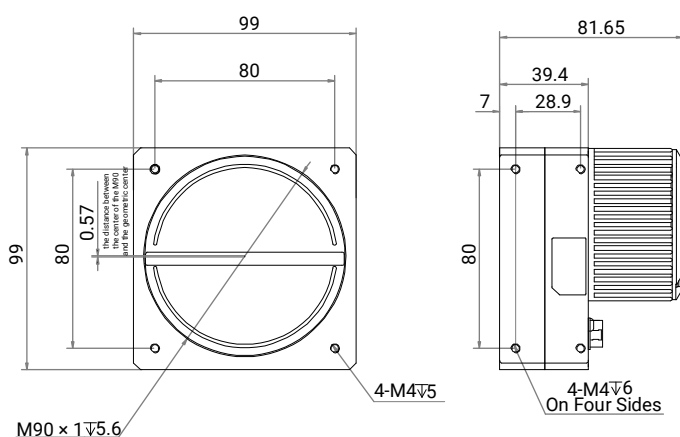
Applicable Industry

Display panel, new energy, consumer electronics, PCB, etc.

Sensor Quantum Efficiency



Dimension



Unit: mm

Model	MV-CL161-B1Y4M
Performance	
Sensor type	CMOS
Pixel size	5 μm $\times$ 5 μm
Resolution	16384 $\times$ 1
Image mode	1-Line
Max. line rate	200 kHz @ Mono 8/10, 197.3 kHz @ Mono 12
Transmission mode	1 Link, 2 Link, 3 Link, 4 Link
Dynamic range	61.3 dB
SNR	38.8 dB
Gain	1.0 $\times$, 2.0 $\times$
Exposure time	3 μs to 10 ms
Exposure mode	Off/Once/Continuous exposure mode, and supports trigger-width exposure
Mono/color	Mono
Pixel format	Mono 8/10/12
Binning	Supports 1 $\times$ 1, 1 $\times$ 2, 1 $\times$ 4, 2 $\times$ 1, 2 $\times$ 2, 2 $\times$ 4, 4 $\times$ 1, 4 $\times$ 2, 4 $\times$ 4
Reverse image	Supports horizontal reverse image output
Trigger mode	External trigger, internal trigger
External trigger mode	Line trigger
Electrical feature	
Data interface	CoaXPress-12 with Micro-BNC interfaces
Digital I/O	12-pin P10 connector provides power and I/O, including configurable input/output $\times$ 4 (Line 0/1/3/4), and single-ended/differential is supported.
Power supply	12 VDC to 24 VDC, CXP-0, CXP-1, and CXP-2 support PoCXP
Power consumption	Typ. 16.3 W @ 24 VDC
Mechanical	
Lens mount	M90*1, flange back length 12 mm, applicable to F-mount lens via adapter ring
Dimension	99 mm $\times$ 99 mm $\times$ 81.65 mm (3.9" $\times$ 3.9" $\times$ 3.2")
Weight	Approx. 780 g (1.7 lb.)
Ingress protection	IP40 (under proper lens installation and wiring)
Temperature	Working temperature: -20 $^{\circ}\text{C}$ to 50 $^{\circ}\text{C}$ (-4 $^{\circ}\text{F}$ to 122 $^{\circ}\text{F}$) Storage temperature: -30 $^{\circ}\text{C}$ to 80 $^{\circ}\text{C}$ (-22 $^{\circ}\text{F}$ to 176 $^{\circ}\text{F}$)
Humidity	20% RH to 95% RH (no condensation)
General	
Client software	MVS or other frame grabber software corresponding to CoaXPress protocol
Operating system	32/64-bit Windows 7/10, 64-bit Windows 11, 32/64-bit Linux
Compatibility	CoaXPress, GenICam
Certification	CE, RoHS, KC