

MV-CL166-B0F2C

16 K XoFLink Line Scan Camera



GEN*i*CAM

XoFLink

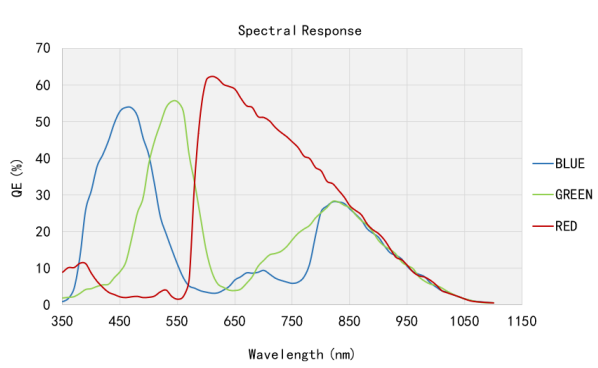
Introduction

MV-CL166-B0F2C camera adopts 16384×12 CMOS sensor and supports dual-channel XoFLink data transmission, and its max. line rate reaches 40 kHz under 4-TDI mode. It integrates multiple advanced ISP image processing technologies, and is featured with high speed, high accuracy, and high performance.

Applicable Industry

PCB, printing, stone/wood surface defect inspection, etc.

Sensor Quantum Efficiency



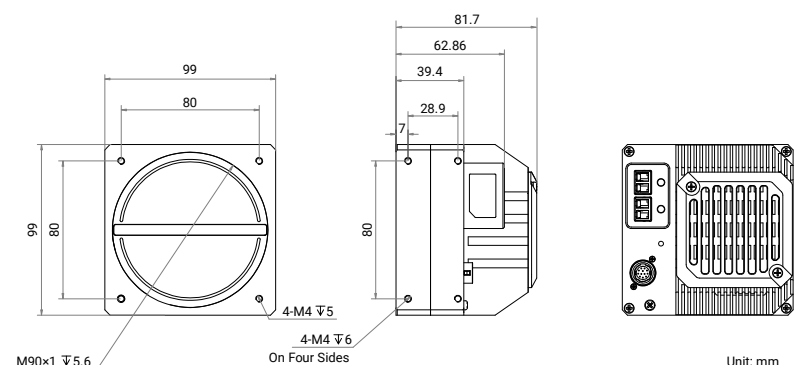
Key Feature

- Adopts multiple ISP image processing technologies, such as Gamma correction, flat field correction, LUT, color correction, etc.
- Supports RGB true color and multiple exposure and acquisition modes.
- Supports image modes of 1-Line, 2-TDI, and 4-TDI.
- Supports dual-channel XoFLink data transmission, and its max. line rate reaches 40 kHz.
- Supports combination of frame grabber for high-speed data transmission and flexible control of image acquisition and light source.
- Compact design and flexible installation.

Available Model

MV-CL166-B0F2C

Dimension



Accessories

- Frame Grabber: MV-GS1002F, MV-GS1004F, MV-GS1104F (without SFP+ module)
- SFP+ Module: MV-AC10G-SFP
- Fiber Patch Cord: MV-AC10G-2LC-2LC-ST

Specification

Model	MV-CL166-B0F2C
Performance	
Sensor type	CMOS
Pixel size	5 μm $\times$ 5 μm
Resolution	16384 $\times$ 12
Image mode	1-Line, 2-TDI, 4-TDI
Max. line rate	40 kHz
Transmission mode	2 Link
Dynamic range	62.6 dB
SNR	39.3 dB
Gain	1.0 $\times$, 1.3 $\times$, 2.0 $\times$, 4.0 $\times$
Exposure time	3 μs to 10 ms
Exposure mode	Off/ Once/ Continuous exposure mode, and supports fixed exposure time and trigger-width exposure time
Mono/color	Color
Pixel format	RGB 8, BGR 8, Mono 8/10/12, Bayer RG 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	2LC fiber connector
Digital I/O	Not supported
Power supply	24 VDC
Power consumption	Typ. 23.8 W @ 24 VDC
Mechanical	
Lens mount	M90*1.0, flange back length 12 mm, applicable to F-mount via lens adapter
Dimension	99 mm $\times$ 99 mm $\times$ 81.7 mm (3.9" $\times$ 3.9" $\times$ 3.2")
Weight	Approx. 870 g (1.9 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	5% RH to 90% RH (no condensation)
General	
Client software	MVS
Operating system	32/64-bit Windows 7/10, 64-bit Windows 11, 32/64-bit Linux
Compatibility	XoFLink, GenICam
Certification	CE, RoHS, KC