

MV-CL166-B0F2C-Base

16384 P XoFLink Line Scan Camera


GEN< i >CAM
XoFLink

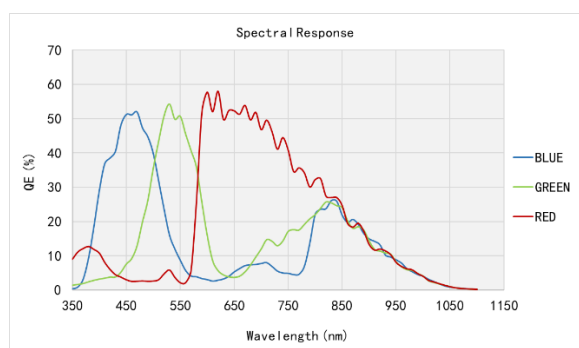
Introduction

MV-CL166-B0F2C-Base camera adopts 16384 × 6 CMOS sensor and supports dual-channel XoFLink data transmission, and its max. line rate reaches 48.3 kHz. 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



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

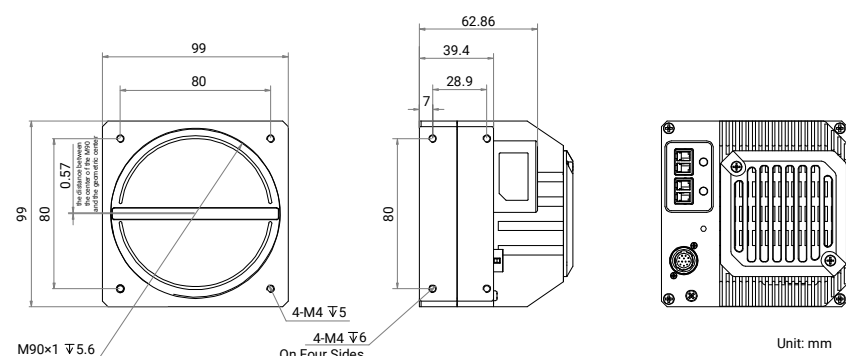
Key Features

- 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 and 2-TDI.
- Supports dual-channel XoFLink data transmission, and its max. line rate reaches 48.3 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-Base

Dimension



Specification

Model	MV-CL166-B0F2C-Base
Performance	
Sensor type	CMOS
Pixel size	5 μm $\times$ 5 μm
Resolution	16384 $\times$ 6
Image mode	1-Line, 2-TDI
Max. line rate	1 Link mode: 24.2 kHz (1-Line & 2-TDI) @ RGB 8/BGR 8, 48.3 kHz (1-Line) @ other pixel formats, 40 kHz (2-TDI) @ other pixel formats 1 Link mode (after ROI): 48.3 kHz (1-Line) @ RGB 8/BGR 8, 40 kHz (2-TDI) @ RGB 8/BGR 8 2 Link mode: 48.3 kHz (1-Line), 40 kHz (2-TDI)
Transmission mode	1 Link, 2 Link
Dynamic range	72 dB
SNR	40.7 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 time
Mono/color	Color
Pixel format	Mono 8/10/12 Bayer RG 8/10/12 RGB 8, BGR 8
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	12 VDC to 24 VDC (12-pin P10 connector)
Power consumption	Typ. 16 W @ 12 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