

MV-CL084-91F2M

8192 P XoF Mono Line Scan Camera



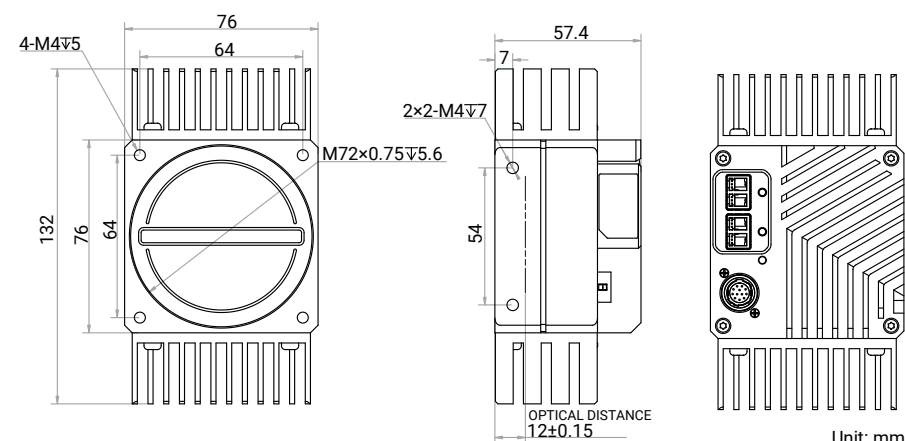
Introduction

MV-CL084-91F2M camera adopts 8192 × 4 CMOS sensor and supports transmission protocol of XoFLink, and its max. line rate reaches 200 kHz. It supports multi-light control, multi-exposure, TDI, etc., and it adopts multiple ISP image processing technologies, and is featured with high speed, high accuracy, and high performance.

Key Feature

- Supports multi-light control, multi-exposure, TDI, etc.
- Adopts multiple ISP like Gamma correction, flat field correction, LUT, black level offset, etc.
- Provides dual XoF fiber ports with high-speed.
- Adopts bi-directional configurable I/O hardware design.
- Compact design and flexible installation.

Dimension



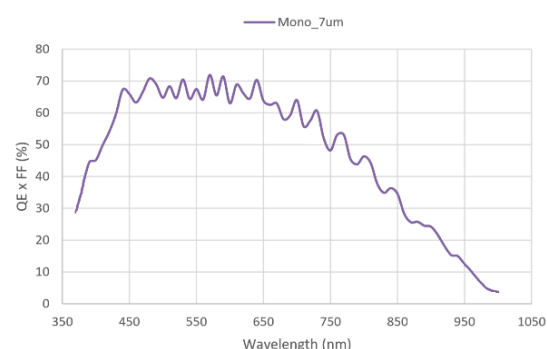
Available Model

MV-CL084-91F2M

Applicable Industry

New energy, screen detection, consumer electronics, PCB, etc.

Sensor Quantum Efficiency



Accessories

- XoF Frame Grabber: MV-GS1002F, MV-GS1004F
- XoF SFP+ Module: MV-AC10G-SFP-850-LC
- XoF Fiber Patch Cable: MV-AC10G-2LC-2LC-ST

Specification

Model	MV-CL084-91F2M
Performance	
Sensor type	CMOS
Pixel size	7 μm $\times$ 7 μm
Resolution	8192 $\times$ 4
Image mode	Supports multi-light control: 1/2/3/4 light(s) Supports 1-Line, 2-TDI, 4-TDI
Max. line rate	1-light mode: 200 kHz (1-Line), 100 kHz (2-TDI), 50 kHz (4-TDI) 2-light mode: 52 kHz (1-Line), 26 kHz (2-TDI) 3-light mode: 34.6 kHz (1-Line) 4-light mode: 26 kHz (1-Line)
Transmission mode	1 Link, 2 Link
Dynamic range	63.4 dB
SNR	40.8 dB
Gain	1.0 $\times$
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, frame trigger, line + frame trigger
Electrical feature	
Data interface	2LC fiber connector
Digital I/O	12-pin P10 connector provides power and I/O: Configurable input/output $\times$ 4 (Line 0/1/3/4) and single-ended/differential is supported.
Power supply	12 VDC to 24 VDC
Power consumption	Typ. 15.4 W @ 24 VDC
Mechanical	
Lens mount	M72*0.75, flange back length 12 mm, applicable to F-mount via lens adapter
Dimension	132 mm $\times$ 76 mm $\times$ 57.4 mm (5.2" $\times$ 3.0" $\times$ 2.3")
Weight	Approx. 600 g (1.3 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
Compatibility	XoFLink, GenICam
Certification	CE, RoHS, KC, UL