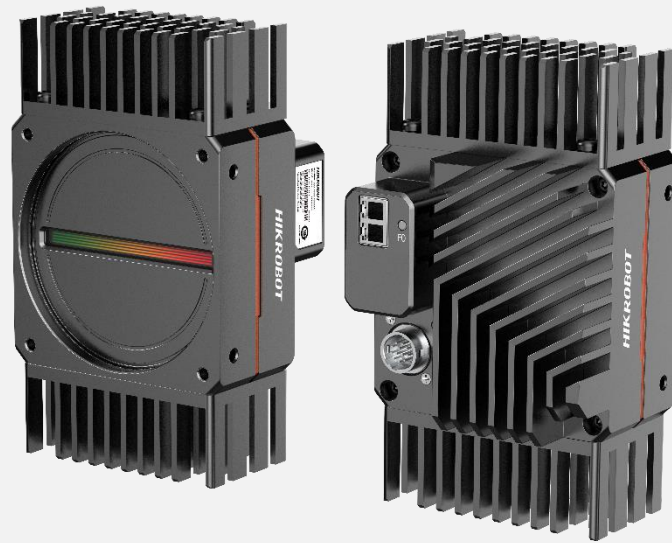


MV-CL082-91F1M V2.0

8192 P XoF Mono Line Scan Camera



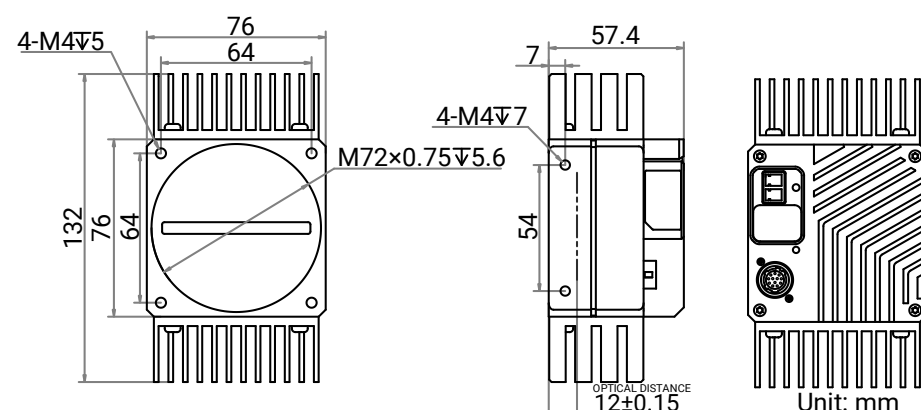
Introduction

MV-CL082-91F1M V2.0 camera adopts 8192 × 2 CMOS sensor and supports transmission protocol of XoFLink, and its max. line rate reaches 146 kHz. It adopts multiple ISP image processing technologies, and is featured with high speed, high accuracy, and high performance.

Key Features

- Adopts multiple ISP like Gamma correction, flat field correction, LUT, black level offset, etc.
- Provides one XoF fiber port with 10 GB bandwidth.
- Supports multiple exposure and acquisition methods.
- Supports 2-TDI with max. line rate of 146 kHz.
- Adopts bi-directional configurable I/O hardware design.
- Compact design and flexible installation.

Dimension



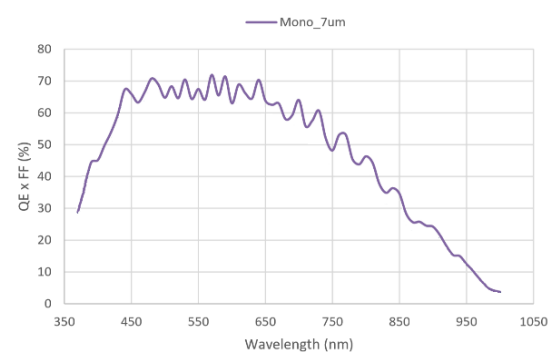
Available Model

MV-CL082-91F1M V2.0

Applicable Industry

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

Sensor Quantum Efficiency



Accessories

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

Specification

Model	MV-CL082-91F1M V2.0
Performance	
Sensor type	CMOS
Pixel size	7 μm $\times$ 7 μm
Resolution	8192 $\times$ 2
Image mode	Supports 1-Line, 2-TDI
Max. line rate	146 kHz (1-Line), 100 kHz (2-TDI)
Transmission mode	1 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	LC 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. 11.1 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