

MV-CL084-91CM

8192 P Camera Link Line Scan Camera



GEN*i*CAM



Introduction

MV-CL084-91CM camera uses Camera Link interface to transmit images, and its max. line rate can reach 100 kHz. It supports TDI, ISP image signal processing technology, and different image modes. It is applicable to new energy, consumer electronics, screen detection, metallurgy, and other industries.

Key Feature

- Supports configuration modes of Base, Medium, Full and 80-bit via the Camera Link interface.
- Supports TDI function to select different image modes.
- Supports exposure time and gain adjustment, PRNUC correction, LUT, Gamma correction, etc.
- Adopts compact design and supports flexible installation.
- Compatible with Camera Link Protocol and GenICam Standard.

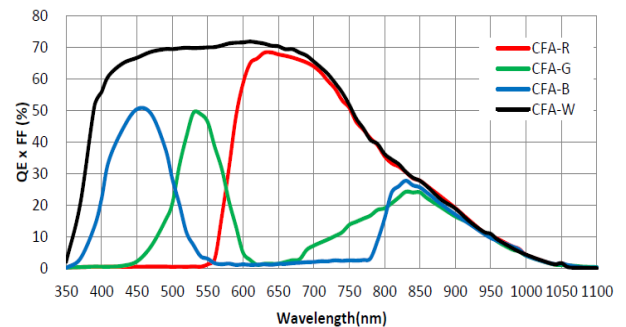
Available Model

MV-CL084-91CM

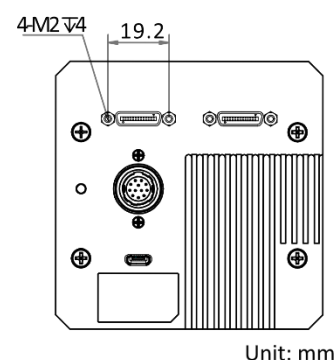
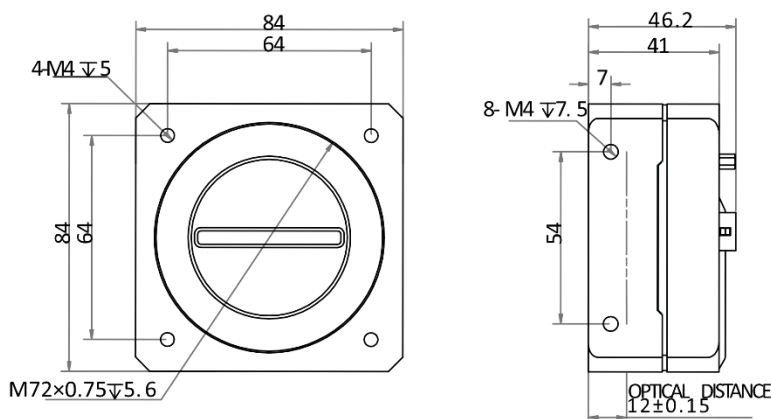
Applicable Industry

New energy, 3C, screen detection, metallurgy, etc.

Sensor Quantum Efficiency



Dimension



Specification

Model	MV-CL084-91CM
Camera	
Sensor type	CMOS
Pixel size	5 μ m
Resolution	8192 $\times$ 4
Image mode	Supports 1-line, 2-TDI, 4-TDI
Max. line rate	20 kHz (Base), 40 kHz (Medium), 80 kHz (Full), 100 kHz (80-bit)
Configuration mode	Base, Medium, Full, 80-bit
Tap geometry	1 $\times$ 2, 1 $\times$ 4, 1 $\times$ 8, 1 $\times$ 10
Tap number	2 Taps, 4 Taps, 8 Taps, 10 Taps
Pixel clock	40 MHz, 66 MHz, 80 MHz, 85 MHz
Dynamic range	62 dB
SNR	42 dB
Gain	1.2 $\times$, 2.7 $\times$, 3.0 $\times$, 3.5 $\times$, 4.6 $\times$, 6.2 $\times$
Exposure time	3 μ s to 10 ms
Exposure mode	Off/Once/Continuous exposure mode; supports fixed exposure time, trigger-width exposure
Mono/color	Mono
Pixel format	Mono 8/10/12
Binning	Supports 1 $\times$ 1, 2 $\times$ 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 features	
Data interface	Camera Link (SDR connector); USB interface for updating firmware
Digital I/O	12-pin P10 connector provides power and I/O: configurable input and output $\times$ 4 (Line 0/1/3/4), and support single-end/differential. Camera Link provides I/O (CC1/CC2/CC3/CC4)
Power supply	12 VDC to 24 VDC
Power consumption	Typ. 9.7 W @ 12 VDC
Mechanical	
Lens mount	M72*0.75, flange back length 12 mm, applicable to F-mount via lens adapter
Dimension	84 mm $\times$ 84 mm $\times$ 46.2 mm (3.3" $\times$ 3.3" $\times$ 1.8")
Weight	Approx. 476 g (1.0 lb.)
Ingress protection	IP40 (under proper lens installation and wiring)
Temperature	Working temperature: -20 $^{\circ}$ C to 55 $^{\circ}$ C (-4 $^{\circ}$ F to 131 $^{\circ}$ F) Storage temperature: -30 $^{\circ}$ C to 80 $^{\circ}$ C (-22 $^{\circ}$ F to 176 $^{\circ}$ F)
Humidity	5% RH to 90% RH (no condensation)
General	
Client software	MVS and frame grabber software meeting with Camera Link Protocol
Operating system	32/64-bit Windows 7/10, 64-bit Windows 11
Compatibility	Camera Link V1.2, GenICam
Certification	CE, RoHS2.0, KC