

# MV-CL084-91CM-PRO

## 8192 P Camera Link Line Scan Camera



GEN<i>i</i>CAM



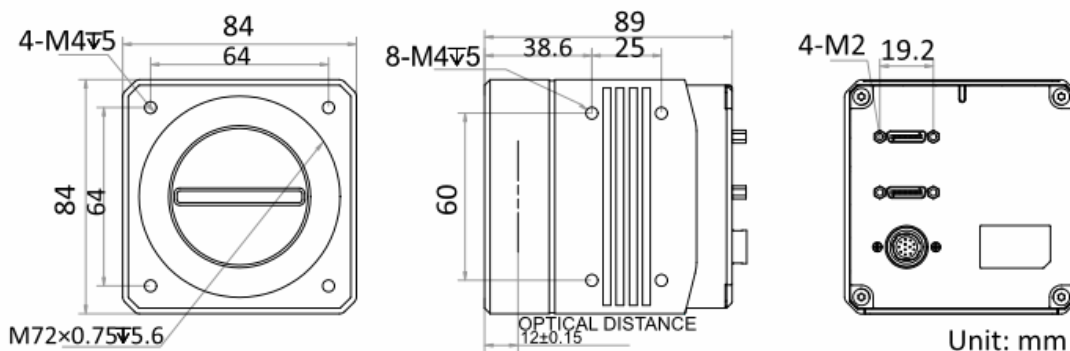
### Introduction

MV-CL084-91CM-PRO uses Camera Link interface to transmit images, and its max. line rate reaches 100 kHz. It supports multiple lights control function and different image modes, and is applicable to printing, panel, semiconductor, new energy, and other industries.

### Key Feature

- Supports configuration modes of Base, Medium, Full and 80-bit via the Camera Link interface.
- Supports multiple lights control function and TDI function to select different lamp modes and image modes.
- Supports exposure time and gain adjustment, PRNUC correction, LUT, Gamma correction, etc.
- Compatible with Camera Link Protocol and GenICam Standard.

### Dimension



### Available Model

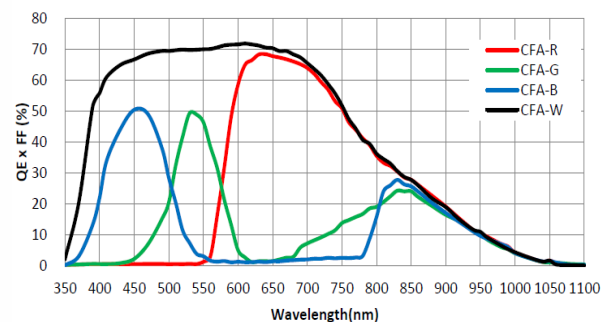
MV-CL084-91CM-PRO

### Applicable Industry

Printing, panel, semiconductor, new energy, PCB, etc.

### Sensor Quantum

### Efficiency



## Specification

<b>Model</b>	<b>MV-CL084-91CM-PRO</b>
<b>Camera</b>	
<b>Sensor type</b>	CMOS
<b>Pixel size</b>	5 $\mu$ m
<b>Resolution</b>	8192 $\times$ 16
<b>Image mode</b>	Supports 1-line, 2-TDI, and 4-TDI Supports multiple lights control: 2-lamp/3-lamp/4-lamp
<b>Max. line rate</b>	Multiple lights control disabled or 1-lamp: 20 kHz (Base), 40 kHz (Medium), 75 kHz (Full), 75 kHz (80-bit) 2-lamp: 10 kHz (Base), 20 kHz (Medium), 40 kHz (Full), 50 kHz (80-bit) 3-lamp: 6 kHz (Base), 13 kHz (Medium), 27 kHz (Full), 33 kHz (80-bit) 4-lamp: 5 kHz (Base), 10 kHz (Medium), 20 kHz (Full), 25 kHz (80-bit)
<b>Configuration mode</b>	Base, Medium, Full, 80-bit
<b>Tap geometry</b>	1 $\times$ 2, 1 $\times$ 4, 1 $\times$ 8, 1 $\times$ 10
<b>Tap number</b>	2 Taps, 4 Taps, 8 Taps, 10 Taps
<b>Pixel clock</b>	40 MHz, 66 MHz, 80 MHz, 85 MHz
<b>Dynamic range</b>	57.8 dB
<b>SNR</b>	41.3 dB
<b>Gain</b>	Supports 1.2 $\times$ , 2.7 $\times$ , and 4.6 $\times$
<b>Exposure time</b>	3 $\mu$ s to 10 ms
<b>Exposure mode</b>	Off/ Once/ Continuous exposure mode; supports fixed exposure time, trigger-width exposure
<b>Mono/color</b>	Mono
<b>Pixel format</b>	Mono 8/10/12
<b>Binning</b>	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
<b>Reverse image</b>	Supports horizontal reverse image output
<b>Trigger mode</b>	External trigger, internal trigger
<b>External trigger mode</b>	Line trigger, frame trigger, line + frame trigger
<b>Electrical feature</b>	
<b>Data interface</b>	Camera Link (SDR connector); USB interface for updating firmware
<b>Digital I/O</b>	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).
<b>Power supply</b>	24 VDC
<b>Power consumption</b>	Typ. 22.9 W@24 VDC
<b>Mechanical</b>	
<b>Lens mount</b>	M72*0.75, optical back focal length: 12 mm (0.5"), applicable to F-mount via lens adapter
<b>Dimension</b>	84 mm $\times$ 84 mm $\times$ 89 mm (3.3" $\times$ 3.3" $\times$ 3.5")
<b>Weight</b>	Approx. 883 g (1.9 lb.)
<b>Ingress protection</b>	IP40 (under proper lens installation and wiring)
<b>Temperature</b>	Working temperature: -20 $^{\circ}$ C to 60 $^{\circ}$ C (-4 $^{\circ}$ F to 140 $^{\circ}$ F) Storage temperature: -30 $^{\circ}$ C to 80 $^{\circ}$ C (-22 $^{\circ}$ F to 176 $^{\circ}$ F)
<b>Humidity</b>	5% to 90% RH, non-condensing

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<b>General</b>	
<b>Client software</b>	MVS and frame grabber software meeting with Camera Link Protocol
<b>Operating system</b>	32/64-bit Windows 7/10
<b>Compatibility</b>	Camera Link V2.0, GenICam
<b>Certification</b>	CE, RoHS, KC

**HIKROBOT**

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