

# MV-CL081-41CM

8192 P Camera Link Line Scan Camera



GEN*i*CAM



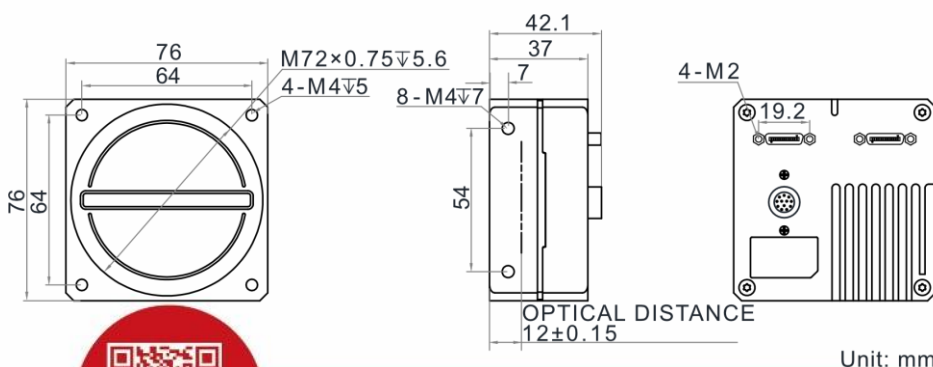
## Introduction

MV-CL081-41CM adopts 8192 × 1 CMOS sensor, uses Camera Link interface to transmit images, and its max. line rate reaches 80 kHz. It integrates multiple ISP technologies, and supports different trigger modes like line trigger, frame trigger, and trigger-width exposure.

## Key Feature

- Integrates multiple ISP technologies, and supports manual adjustment of Gamma correction, FFC correction, LUT, black level, etc.
- Supports multiple exposure and acquisition modes.
- Adopts configurable bi-directional I/O hardware design.
- Compact design and flexible installation.
- Compatible with Camera Link Protocol and GenICam Standard.

## Dimension



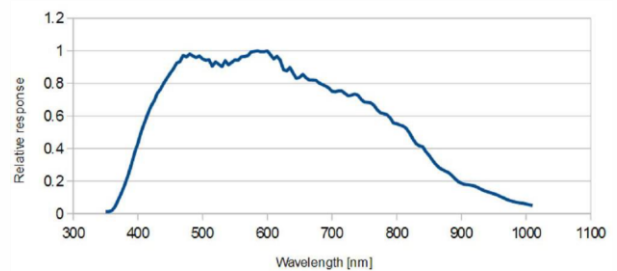
## Available Model

MV-CL081-41CM

## Applicable Industry

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

## Sensor Quantum Efficiency



# Specification

<b>Model</b>	<b>MV-CL081-41CM</b>
<b>Camera</b>	
<b>Sensor type</b>	CMOS
<b>Pixel size</b>	7 $\mu$ m
<b>Resolution</b>	8192 $\times$ 1
<b>Image mode</b>	1-line
<b>Max. line rate</b>	20 kHz (Base), 40 kHz (Medium), 80 kHz (Full)
<b>Configuration mode</b>	Base, Medium, Full
<b>Tap geometry</b>	1 $\times$ 2, 1 $\times$ 4, 1 $\times$ 8
<b>Tap number</b>	2 Taps, 4 Taps, 8 Taps
<b>Pixel clock</b>	40 MHz, 66 MHz, 80 MHz, 85 MHz
<b>Dynamic range</b>	64.7 dB
<b>SNR</b>	44.3 dB
<b>Gain</b>	Supports 1 $\times$ , 2 $\times$ , 4 $\times$ , 8 $\times$
<b>Exposure time</b>	2 $\mu$ 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, 2 $\times$ 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 features</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>	12 VDC to 24 VDC
<b>Power consumption</b>	Typ. 5.8 W@12 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>	76 mm $\times$ 76 mm $\times$ 42.1 mm (3.0" $\times$ 3.0" $\times$ 1.7")
<b>Weight</b>	Approx. 320 g (0.7 lb.)
<b>Ingress protection</b>	IP40 (under proper lens installation and wiring)
<b>Temperature</b>	Working temperature: 0 $^{\circ}$ C to 55 $^{\circ}$ C (32 $^{\circ}$ F to 131 $^{\circ}$ 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
<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 V1.2, GenICam
<b>Certification</b>	CE, FCC, RoHS, KC

**HIKROBOT**

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