

# MV-CL042-70CC

4096 P CMOS Camera Link Line Scan Camera



GEN*<i>*CAM

CAMERA  
Link

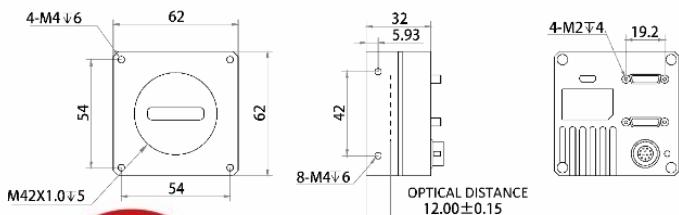
## Introduction

MV-CL042-70CC camera adopts Camera Link interface to Color camera: MV-CL042-70CC transmit non-compressed data in real time with max. line rate reaching 40 kHz. It can work under the low-temperature environment with heating mode enabled. It also supports various triggering modes.

## Key Feature

- Camera Link interface, supporting Base, Medium and Full modes.
- Supports exposure time control and gain adjustment.
- Supports PRNU function.
- Supports custom LUT and Gamma correction, etc.
- Compatible with Camera Link Protocol and GenICam Standard.
- Compact structure design, with mounting holes on back and side panels for flexible mounting.

## Dimension

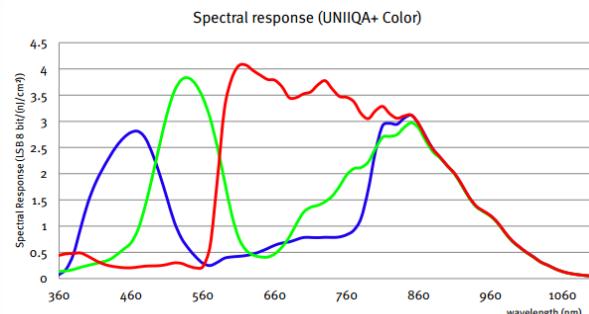


## Available Model

## Applicable Industry

Printing, metallurgy, food, logistics, textiles, railway, material sorting, pharmaceutical manufacturing, etc.

## Sensor Quantum Efficiency



Unit: mm

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## Specification

<b>Model</b>	MV-CL042-70CC	
<b>Camera</b>		
<b>Sensor type</b>	CMOS	
<b>Pixel size</b>	5 $\mu$ m	
<b>Resolution</b>	4096 $\times$ 2	
<b>Pixel clock</b>	85 MHZ	
<b>Configuration mode</b>	Base	Medium
<b>Max. line rate</b>	20 kHz (RGB 8) @4096 $\times$ 2	40 kHz (RGB 8)@4096 $\times$ 2
<b>Tap geometry</b>	1X	2X
<b>Tap number</b>	1 Tap	2 Taps
<b>Pixel format</b>	RGB 8	
<b>Dynamic range</b>	56 dB	
<b>SNR</b>	39.5 dB	
<b>Gain</b>	Supports 1x /2x /4x	
<b>Exposure time</b>	2 $\mu$ s to 10 ms	
<b>Exposure mode</b>	Off/Once/Continuous exposure mode; supports fixed exposure time	
<b>Mono/color</b>	Color	
<b>Reverse image</b>	Supports horizontal reverse image output	
<b>Binning</b>	Not support	
<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, USB (only for firmware upgrade)	
<b>Digital I/O</b>	12-pin Hirose connector provides power and I/O: differential signal input $\times$ 2 (Line 0, Line 3), differential signal output $\times$ 2 (Line 1, Line 4) Camera Link interface provides I/O	
<b>Power supply</b>	12 VDC to 24 VDC	
<b>Power consumption</b>	Typ. 4 W@12 VDC	
<b>Mechanical</b>		
<b>Lens mount</b>	M42 $\times$ 1.0, optical back focal length 12mm (0.5"), applicable to F-mount, C-mount and lens of other types via adapter ring	
<b>Dimension</b>	62 mm $\times$ 62 mm $\times$ 32 mm (2.4" $\times$ 2.4" $\times$ 1.3")	
<b>Weight</b>	Approx. 150 g (0.3 lb.)	
<b>Ingress protection</b>	IP40 (under proper lens installation and wiring)	
<b>Temperature</b>	Working temperature: -20 $^{\circ}$ C to 50 $^{\circ}$ C (-4 $^{\circ}$ F to 122 $^{\circ}$ F) Storage temperature: -30 $^{\circ}$ C to 70 $^{\circ}$ C (-22 $^{\circ}$ F to 158 $^{\circ}$ F)	
<b>Humidity</b>	20% to 80% RH, non-condensing	
<b>General</b>		
<b>Client software</b>	MVS and the frame grabber software meeting with GenICam standard	
<b>Operating system</b>	32/64-bit Windows XP/7/10	
<b>Compatibility</b>	Camera Link V1.2, GenICam	
<b>Certification</b>	CE, FCC, KC, RoHS	

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