

MV-CL042-70CC

4096P CMOS CameraLink Line Scan Camera



GEN*i*CAM



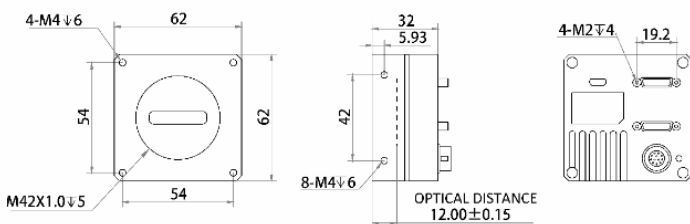
Introduction

MV-CL042-70CC camera adopts CameraLink interface to 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

- CameraLink 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 CameraLink Protocol and GenCam Standard
- Compact structure design, with mounting holes on back and side panels for flexible mounting

Dimension



Unit: mm

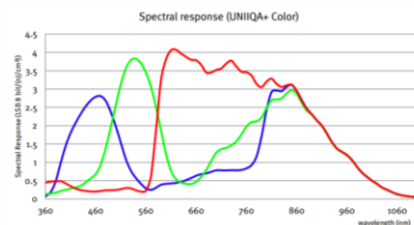
Available Model

Color Camera: MV-CL042-70CC

Applicable Industry

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

Sensor Quantum Efficiency



Specification

Model	MV-CL042-70CC	
Camera		
Sensor type	CMOS	
Pixel size	5 μm \times 5 μm	
Resolution	4096 \times 2	
Pixel clock	85 MHZ	
Configuration mode	Base	Medium
Max. line rate	20 kHz (RGB 8) @4096 \times 2	40 kHz (RGB 8)@4096 \times 2
Tap number	1 Tap	2 Taps
Pixel format	RGB 8	
Dynamic range	56 dB	
SNR	39.5 dB	
Gain	Supports 1x /2x /4x	
Exposure time	2 μs to 10 ms	
Shutter mode	Off/Once/Continuous exposure mode; supports fixed exposure time	
Reverse image	Supports horizontal reverse image output	
Electrical features		
Data interface	CameraLink, USB (only for firmware upgrade)	
Digital I/O	12-pin Hirose connector provides power and I/O: differential input x 2 (Line 0, Line 3), differential output x 2 (Line 1, Line4); CameraLink interface provides I/O (CC1/CC2/CC3/CC4)	
Power supply	12 VDC to 24 VDC, 12 VDC under heating mode	
Power consumption	< 4 W@12 VDC	
Structure		
Lens mount	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	
Dimension	62 mm \times 62 mm \times 32 mm (2.4" \times 2.4" \times 1.3")	
Weight	Approx. 150g (0.3 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 70 $^{\circ}\text{C}$ (-22 $^{\circ}\text{F}$ to 158 $^{\circ}\text{F}$)	
Humidity	20% to 80% RH, without condensation	
General		
Client software	MVS and the frame grabber software meeting with GenICam standard	
Operating system	Windows XP/7/10 32/64-bit	
Compatibility	CameraLink V1.2 protocol, GenICam standard	
Certification	CE, FCC, KC, RoHS	

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