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 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 GenlCam Standard.
- Compact structure design, with mounting holes on back and side panels for flexible mounting.
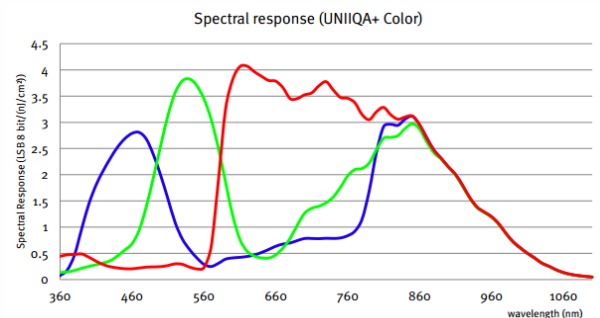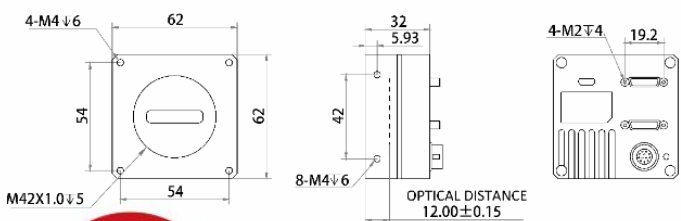
Available Model

Color camera: MV-CL042-70CC

Applicable Industry

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

Sensor Quantum Efficiency

Spectral response (UNIIQA+ Color)

Dimension

Unit: mm

Specification

Model	MV-CL042-70CC	
Camera		
Sensor type	CMOS	
Pixel size	5 μm	
Resolution	4096 × 2	
Pixel clock	85 MHZ	
Configuration mode	Base	Medium
Max. line rate	20 kHz (RGB 8) @4096 × 2	40 kHz (RGB 8)@4096 × 2
Tap geometry	1X	2X
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	
Exposure mode	Off/Once/Continuous exposure mode; supports fixed exposure time	
Mono/color	Color	
Reverse image	Supports horizontal reverse image output	
Binning	Not support	
Trigger mode	External trigger, internal trigger	
External trigger mode	Line trigger, frame trigger, line + frame trigger	
Electrical features		
Data interface	Camera Link, USB (only for firmware upgrade)	
Digital I/O	12-pin Hirose connector provides power and I/O: differential signal input × 2 (Line 0, Line 3), differential signal output × 2 (Line 1, Line 4) Camera Link interface provides I/O	
Power supply	12 VDC to 24 VDC	
Power consumption	Typ. 4 W@12 VDC	
Mechanical		
Lens mount	M42 × 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 × 62 mm × 32 mm (2.4" × 2.4" × 1.3")	
Weight	Approx. 150 g (0.3 lb.)	
Ingress protection	IP40 (under proper lens installation and wiring)	
Temperature	Working temperature: -20 °C to 50 °C (-4 °F to 122 °F) Storage temperature: -30 °C to 70 °C (-22 °F to 158 °F)	
Humidity	20% to 80% RH, non-condensing	
General		
Client software	MVS and the frame grabber software meeting with GenlCam standard	
Operating system	32/64-bit Windows XP/7/10	
Compatibility	Camera Link V1.2, GenICam	
Certification	CE, FCC, KC, RoHS	