

MV-CH050-10CM/CC

5 MP 2/3" CMOS Camera Link Area Scan Camera









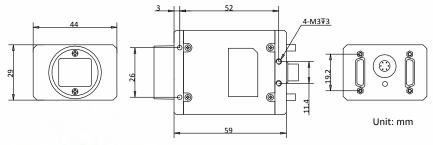
Introduction

MV-CH050-10CM/CC camera adopts Sony® IMX250 sensor to provide high-quality image. It uses Camera Link interface to transmit non-compressed images in real time with max. frame rate reaching 140 fps.

Key Feature

- Adopts global shutter CMOS sensor providing high signal-to-noise ratio, wide dynamic range, and highquality image.
- Resolution of 2432 × 2048, pixel size of 3.45 μ m × 3.45 μ m.
- Supports configuration modes of Base, Medium, Full and 80-bit via the Camera Link interface.
- Adopts compact design with mounting holes for flexible mounting.

Dimension



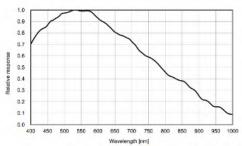
Available Model

- Mono camera: MV-CH050-10CM
- Color camera: MV-CH050-10CC

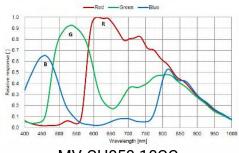
Applicable Industry

SMT/ PCB AOI, FPD, railway related applications, high-accuracy measurement, etc.

Sensor Quantum Efficiency



MV-CH050-10CM



MV-CH050-10CC



Specification

Camera Sensor type CMOS, global shutter Sensor model Sony® IMX250 Pixel size 3.45 μm × 3.45 μm Sensor size 2/3" Resolution 2432 × 2048 Max. frame rate 140 fps @2432 × 2048 Configuration mode Base, Medium, Full, 80-bit Tap geometry 1X2_1Y, 1X4_1Y, 1X8_1Y, 1X10_1Y Tap number 2 Taps, 4 Taps, 8 Taps, 10 Taps Pixel clock 60 MHz, 70 MHz, 85 MHz Dynamic range 75.4 dB SNR 40 dB Gain 0 dB to 20 dB 0 dB to 17 dB Exposure time 15 μs to 10 sec Exposure mode Off/Once/Continuous exposure mode Mono/color Mono Color Pixel format Mono 8/10/12 Bayer RG 8/10/12, RGB 8 Binning Supports 1 × 1, 1 × 2, 1 × 4, 2 × 1, 2 × 2, 2 × 4, 4 × 1, 4 × 2, 4 × 4 Not support Decimation Not support Reverse image Supports horizontal and vertical reverse image output Electrical feature Data interface Camera Link with SDR interface Digital I/O 6-pin P7 connector provides power and I/O, inc	
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	(Line
Power supply 9 VDC to 24 VDC	2).
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Power consumptionTyp. 3.3 W@12 VDCTyp. 3.41 W@12 VDC	
Mechanical	
Lens mount C-mount	
Dimension 44 mm × 29 mm × 59 mm (1.7" × 1.1" × 2.3")	
Weight Approx. 100 g (0.2 lb.)	
Ingress protection IP30 (under proper lens installation and wiring)	
Temperature Working temperature: 0 °C to 50 °C (32 °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 or frame grabber software meeting with GenlCam Protocol	
Operating system 32/64-bit Windows XP/7/10	
Compatibility Camera Link V2.0, GenlCam	
Certification CE, RoHS, KC	10.0



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