MV-CH1510-10XM/C-M72-NF

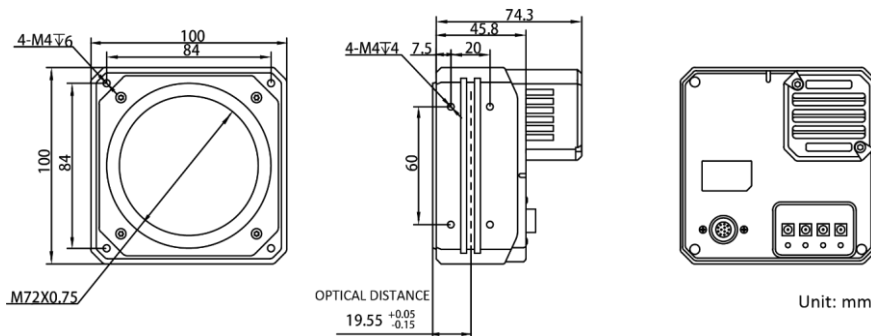## 151 MP CMOS CoaXPress Area Scan Camera

Introduction

MV-CH1510-10XM/C-M72-NF camera adopts Sony® IMX411 sensor to provide high-quality image. It uses the CoaXPress interface to transmit non-compressed images in real time, and its max. frame rate can reach 6.2 fps in full resolution.

Key Feature

- Resolution of 14208 × 10640, and pixel size of 3.76 μm × 3.76 μm.
- Adopts rolling shutter CMOS to provide high dynamic range, SNR, and high-quality image.
- Adopts CoaXPress interface to transmit data.
- Supports the flat field correction.
- Compatible with CoaXPress Protocol, GenlCam Standard, third-party software based on the protocol and standard.
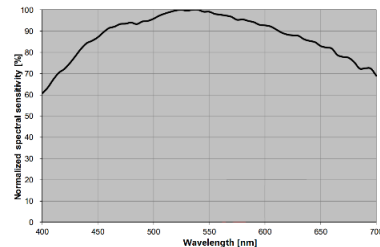
Dimension

Available Model

- Mono camera: MV-CH1510-10XM-M72-NF
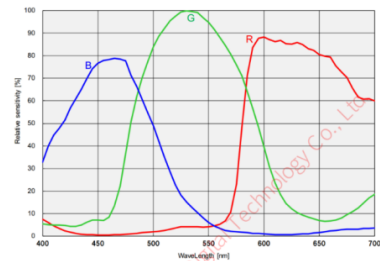- Color camera: MV-CH1510-10XC-M72-NF

Applicable Industry

PCB AOI, FPD, high-accuracy measurement, etc.

Sensor Quantum Efficiency

MV-CH1510-10XM-M72-NF

MV-CH1510-10XC-M72-NF

Specification

Model	MV-CH1510-10XM-M72-NF	MV-CH1510-10XC-M72-NF
Camera		
Sensor type	Rolling shutter CMOS	
Sensor model	Sony® IMX411	
Pixel size	3.76 μm × 3.76 μm	
Sensor size	66.7 mm	
Resolution	14208 × 10640	
Max. frame rate	6.2 fps @14208 × 10640 Mono 8	6.2 fps @14208 × 10640 Bayer RG 8
Dynamic range	78.7 dB	
SNR	46.4 dB	
Gain	0 dB to 30 dB	0 dB to 36 dB
Exposure time	15 μs to 10 s	
Exposure mode	Off/Once/Continuous exposure mode	
Sensor shutter mode	Supports Global Reset, Rolling	
Mono/color	Mono	Color
Pixel format	Mono 8/10/12/16	Mono 8/10/12/16, Bayer RG 8/10/12/16, RGB 8
Binning	Supports 1 × 1, 1 × 2, 1 × 4, 2 × 1, 2 × 2, 2 × 4, 4 × 1, 4 × 2, 4 × 4	
Decimation	Not support	
Reverse image	Supports horizontal reverse image output	
Electrical features		
Data interface	CoaXPress with DIN interface	
Digital I/O	12-pin Hirose connector provides I/O, including opto-isolated input × 1 (Line 0), opto-isolated output × 1(Line 1), bi-directional non-isolated I/O × 1 (Line 2), and RS-232 × 1.	
Power supply	12 VDC to 24 VDC	
Power consumption	Typ. 18 W@24 VDC	Typ. 21 W@24 VDC
Structure		
Lens mount	M72*0.75, optical back focal length 19.55 mm (0.8")	
Dimension	100 mm × 100 mm × 74.3 mm (3.9" × 3.9" × 2.9")	
Weight	Approx. 1 kg (2.2 lb.)	
Ingress protection	IP40 (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 95% RH, non-condensing	
General		
Client software	Frame grabber software meeting with CoaXPress Protocol	
Operating system	32/64-bit Windows 7/10 with 8 GB memory or above	
Compatibility	CoaXPress, GenlCam	
Certification	CE, FCC, RoHS, KC	