

MV-CH1510-10XM/XC V2

151 MP CoaXPress Area Scan Camera



GEN*i*CAM

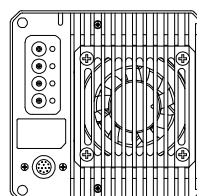
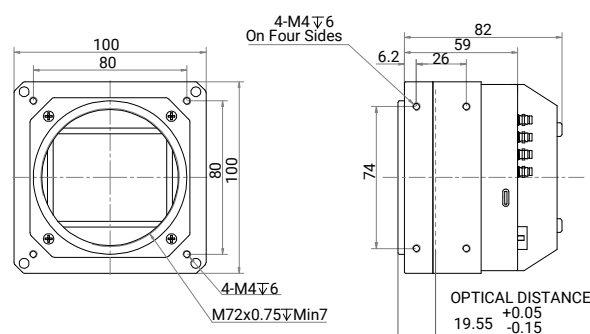
Introduction

MV-CH1510-10XM/XC V2 adopts Sony® IMX411 sensor to provide high-quality images. It uses CXP-6 interface to transmit non-compressed images in real time, and its max. frame rate can reach 6.2 fps in full resolution.

Key Feature

- Supports highly-integrated hardware platform with low power consumption and higher cooling efficiency.
- Adopts a new design with a removable lens adapter ring.
- Supports FFC, CCM, and SuperBayer functions.
- Supports TEC mode, and exposure time of up to 30 seconds.
- Supports 16-bit ADC output with high-precision sampling and high dynamic range.
- Adopts CXP-6 interface to transmit data.
- Compatible with CoaXPress Protocol, GenICam Standard, third-party software based on the protocol and standard.

Dimension



Unit: mm

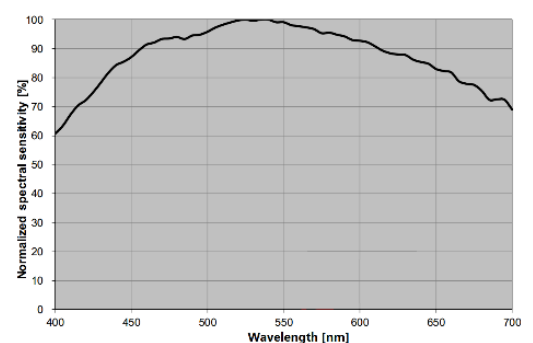
Available Model

- Mono camera:
MV-CH1510-10XM-M72-TF V2
- Color camera:
MV-CH1510-10XC-M72-TF V2

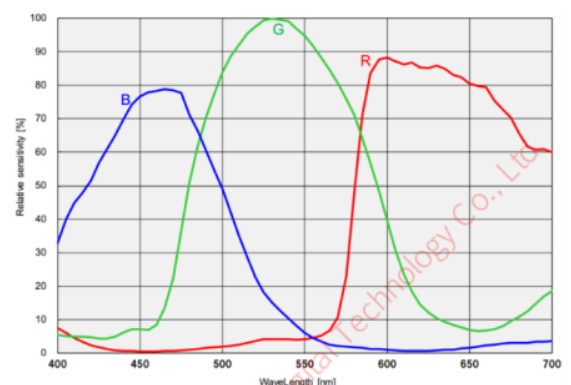
Applicable Industry

PCB AOI, FPD, aerial photography, file scan, etc.

Sensor Quantum Efficiency



MV-CH1510-10XM V2



MV-CH1510-10XC V2

Specification

Model	MV-CH1510-10XM V2		MV-CH1510-10XC V2
Performance			
Sensor type	CMOS, rolling shutter		
Sensor model	Sony® IMX411		
Pixel size	3.76 μm × 3.76 μm		
Sensor size	66.7 mm		
Resolution	14192 × 10640		
Max. frame rate	6.2 fps @14192 × 10640 Mono 8	6.2 fps @14192 × 10640 Bayer RG 8	
Dynamic range	78.8 dB		
SNR	46.4 dB		
Gain	0 dB to 40 dB		
Exposure time	15 μs to 30 sec		
Exposure mode	Off/Once/Continuous exposure mode, supports Rolling and Global Reset		
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 supported		
Reverse image	Supports horizontal reverse image output		
Electrical feature			
Data interface	CoaXPress with DIN interface		
Digital I/O	12-pin P10 connector provides power and 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	24 VDC		
Power consumption	Camera with TEC non-cooling: Typ. 20.8 W @ 24 VDC Camera with TEC cooling: Typ. 34.2 W @ 24 VDC	Camera with TEC non-cooling: Typ. 23.2 W @ 24 VDC Camera with TEC cooling: Typ. 38 .2 W @ 24 VDC	
Mechanical			
Lens mount	M72*0.75, flange back length 19.55 mm		
Dimension	100 mm × 100 mm × 82 mm (3.9" × 3.9" × 3.2")		
Weight	Approx. 1.2 kg (2.6 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 80 °C (−22 °F to 176 °F)		
Humidity	20% RH to 95% RH (no condensation)		
General			
Client software	Frame grabber software meeting with CoaXPress Protocol		
Operating system	32/64-bit Windows 7/10, 64-bit Windows 11, 32/64-bit Linux (8 GB memory or above)		
Compatibility	CoaXPress, GenICam		
Certification	CE, RoHS, KC		