

MV-CH240-10YM

24 MP 1.2" CoaXPress Area Scan Camera



GEN*i*CAM

Introduction

MV-CH240-10YM camera adopts Sony® IMX935 BSI sensor to provide high quality image. It uses CXP-12 interface to transmit non-compressed images in real time, and its max. frame rate can reach 191.7 fps in full resolution.

Key Features

- Resolution of 5312 × 4608, pixel size of 2.74 μm × 2.74 μm.
- Adopts global shutter CMOS sensor to provide high dynamic range, SNR, and high-quality image.
- Adopts fan-less design with low power consumption, ensuring stable capturing.
- Adopts CXP-12 interface to transmit data.
- Compatible with CoaXPress Protocol, GenICam Standard, and third-party software based on the protocol and standard.

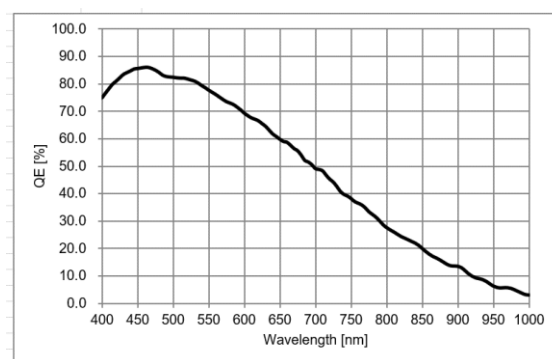
Available Model

MV-CH240-10YM-C-NN

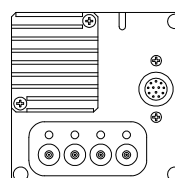
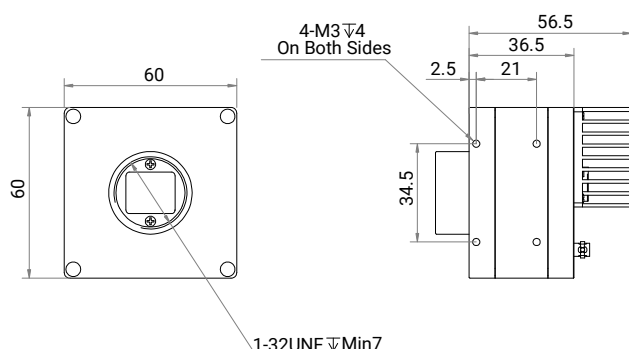
Applicable Industry

Electronic semiconductor, PCB AOI, 3D application, motion capture, etc.

Sensor Quantum Efficiency



Dimension



Unit: mm

Specification

Model	MV-CH240-10YM
Performance	
Sensor type	CMOS, global shutter
Sensor model	Sony® IMX935
Pixel size	2.74 μm × 2.74 μm
Sensor size	1.2"
Resolution	5312 × 4608
Max. frame rate	191.7 fps @ 5312 × 4608 Mono 8
Dynamic range	61.7 dB
SNR	39.4 dB
Gain	0 dB to 42 dB
Exposure time	22 μs to 10 sec
Exposure mode	Off/Once/Continuous exposure mode, and supports Trigger Width
Mono/color	Mono
Pixel format	Mono 8/10/12
Binning	Supports 1 × 1, 1 × 2, 1 × 4, 2 × 1, 2 × 2, 2 × 4, 4 × 1, 4 × 2, 4 × 4
Decimation	Supports 1 × 1, 1 × 2, 1 × 4, 2 × 1, 2 × 2, 2 × 4, 4 × 1, 4 × 2, 4 × 4
Reverse image	Supports horizontal and vertical reverse image output
Electrical features	
Data interface	CoaXPress with Micro-BNC 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	9 VDC to 24 VDC, CXP-0 and CXP-1 support PoCXP
Power consumption	Typ. 11 W @ 12 VDC
Mechanical	
Lens mount	C-mount
Dimension	60 mm × 60 mm × 56.5 mm (2.4" × 2.4" × 2.2")
Weight	Approx. 255 g (0.6 lb.)
Ingress protection	IP40 (under proper lens installation and wiring)
Temperature	Working temperature: 0 °C to 40 °C (32 °F to 104 °F) Storage temperature: -30 °C to 80 °C (-22 °F to 176 °F)
Humidity	20% RH to 95% RH (no condensation)
General	
Client software	MVS or frame grabber software meeting with CoaXPress Protocol
Operating system	32/64-bit Windows 7/10, 64-bit Windows 11, 32/64-bit Linux
Compatibility	CoaXPress, GenICam
Certifications	CE, RoHS, KC