

MV-CH2450-10Q1M/C

245 MP CMOS XoFLink Area Scan Camera



GEN*<i>i>*CAM

XoFLink

Introduction

MV-CH2450-10Q1M/C camera adopts Sony IMX811 CMOS sensor to provide high-quality images. It is equipped with QSFP+ port to transmit non-compressed data in real time, and its max. frame rate can reach 12.4 fps in full resolution.

Key Feature

- Resolution of 19200 × 12800, pixel size of 2.81 μm.
- Supports ISP functions, such as Binning multi-group polling for LSC, and FFC.
- Supports data transmission through QSFP+ port, and max. transmission distance of 150 meters with optical module.
- Adopts TEC mode to reduce sensor temperature.
- Compatible with XoFLink Protocol and GenlCam Standard.

Accessories

- 50 Gbps Fiber Port Frame Grabber: MV-GQ1001 (without optical module)
- Optical Module of Fiber Port Frame Grabber: MV-AC100G-QSFP28
- Optical Fiber Patch Cord: MV-AC100G-MPO-MPO-ST

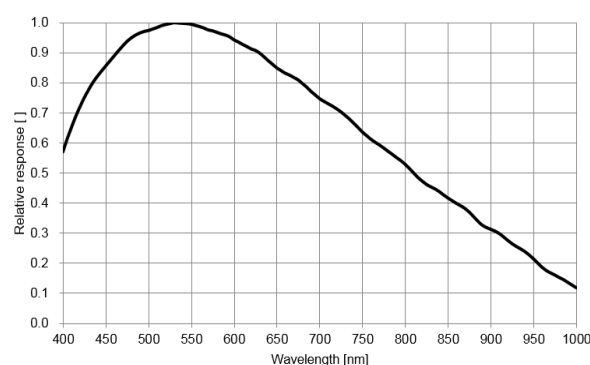
Available Model

- Mono camera: MV-CH2450-10Q1M-M72-TF
- Color camera: MV-CH2450-10Q1C-M72-TF

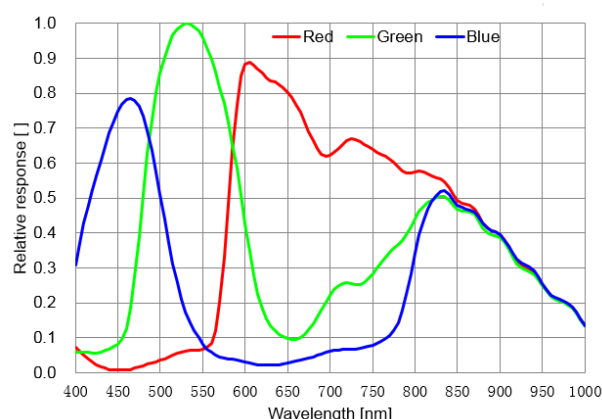
Applicable Industry

FPD detection, PCB AOI, aerial photo, file scanning, etc.

Sensor Quantum Efficiency



MV-CH2450-10QM



MV-CH2450-10QC

Specification

Model	MV-CH2450-10Q1M	MV-CH2450-10Q1C
Performance		
Sensor type	CMOS, rolling shutter	
Sensor model	Sony IMX811	
Pixel size	2.81 μm × 2.81 μm	
Sensor size	64.84 mm	
Resolution	19200 × 12800	
Max. frame rate	12.4 fps @19200 × 12800 Mono 8	12.4 fps @19200 × 12800 Bayer RG 8
Dynamic range	72.1 dB	
SNR	44.1 dB	
Gain	0 dB to 24 dB	
Exposure time	142 μs to 30 sec	
Exposure mode	Off/Once/Continuous exposure mode, and supports Rolling and Global Reset mode	
Mono/color	Mono	Color
Pixel format	Mono 8/10/12	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	
Decimation	Supports 1 × 1, 1 × 2, 1 × 4, 2 × 1, 2 × 2, 2 × 4, 4 × 1, 4 × 2, 4 × 4	
Reverse image	Supports horizontal reverse image output	
Electrical feature		
Data interface	QSFP+ × 1	
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), RS-232 × 1.	
Power supply	24 VDC	
Power consumption	Non-TEC mode: Typ. 17.8 W @ 24 VDC TEC mode: Typ. 32.9 W @ 24 VDC	Non-TEC mode: Typ. 19.9 W @ 24 VDC TEC mode: Typ. 35.3 W @ 24 VDC
Mechanical		
Lens mount	M72 × 0.75, flange back length 19.55 mm	
Dimension	120 mm × 120 mm × 89 mm (4.7" × 4.7" × 3.5")	
Weight	Approx. 2.5 kg (5.5 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	MVS	
Operating system	32/64-bit Windows 7/10, 64-bit Windows 11	
Compatibility	XoFLink protocol, GenICam	
Certification	CE, RoHS	

Dimension

