MV-CT3M/CA0200/R/C/NN

20 MP CMOS XoCLink Area Scan Camera





GEN<i>CAM

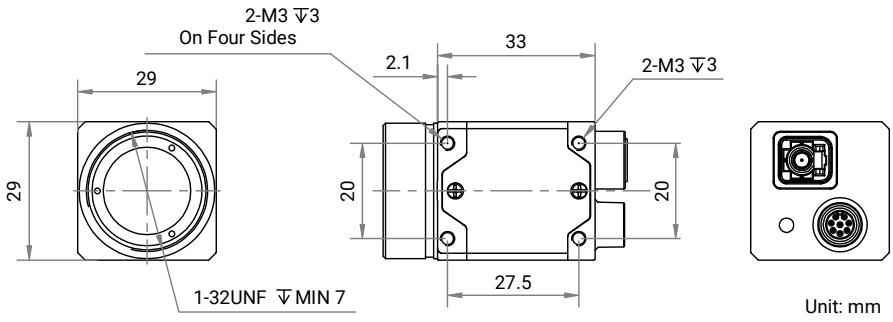
Introduction

MV-CT3M/CA0200R/C/NN camera adopts IMX183 sensor to provide high-quality images with low noise and high resolution. It uses XoCLink interface to transmit non-compressed images in real time, and its max. frame rate can reach 22 fps.

Key Features

- Adopts compact and lightweight design with flexible mounting options, applicable to high-speed motion scenes.
- Low power consumption design reduces heat flux density, resulting in low temperature drift.
- Single-cable PoC enables power supply, control, and data transmission, with a transmission distance of up to 15 meters.

Dimension



Unit: mm

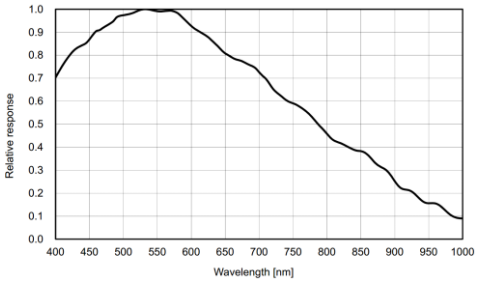
Available Model

- Mono camera: MV-CT3MA0200/R/C/NN
- Color camera: MV-CT3CA0200/R/C/NN

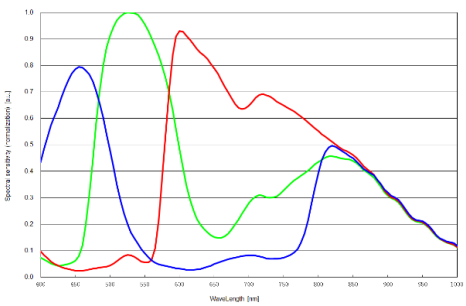
Applicable Industry

SMT/PCB AOI, FPD detection, photovoltaic application, etc.

Sensor Quantum Efficiency



MV-CT3MA0200/R/C/NN



MV-CT3CA0200/R/C/NN

Specification

Model	MV-CT3MA0200/R/C/NN	MV-CT3CA0200/R/C/NN
Performance		
Sensor type	CMOS, rolling shutter	
Sensor model	Sony IMX183	
Pixel size	2.4 μm × 2.4 μm	
Sensor size	1"	
Resolution	5472 × 3648	
Max. frame rate	22 fps @ 5472 × 3648 Mono 8	22 fps @ 5472 × 3648 Bayer GB 8
Dynamic range	71.7 dB	
SNR	41.5 dB	
Gain	0 dB to 24 dB	
Exposure time	13 μs to 0.75 sec	
Exposure mode	Off/Once/Continuous exposure mode	
Mono/color	Mono	Color
Pixel format	Mono 8/10/12	Mono 8 Bayer GB 8/10/12
Binning	Supports 1 × 1, 2 × 2, 4 × 4	
Decimation	Supports 1 × 1, 2 × 2, 4 × 4	
Reverse image	Supports horizontal and vertical reverse image output	
Electrical feature		
Data interface	XoCLink	
Digital I/O	8-pin M8 A-Code aviation 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 × 2 (Line 2/5).	
Power supply	9 VDC to 24 VDC, supports PoC	
Power consumption	Typ. 1.6 W @ 12 VDC	Typ. 1.7 W @ 12 VDC
Mechanical		
Lens mount	C-mount	
Dimension (without lens)	29 mm × 29 mm × 33 mm (1.1" × 1.1" × 1.3")	
Weight	Approx. 90 g (0.2 lb.)	
Ingress protection	IP40 (under proper lens installation and wiring)	
Temperature	Working temperature: –30 °C to 60 °C (–22 °F to 140 °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, 32/64-bit Linux	
Compatibility	GenICam, XoCLink	

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