HIKROBOT

MV-CH200-10NM/NC

20 MP 2.5 GigE Area Scan Camera

MV-CH200-10NM/NC camera adopts Sony® IMX183 sensor to provide high-quality image. It uses 2.5 GigE interface to transmit non-compressed images in real time, and its max. frame rate can reach 14 fps in full resolution.



GENICAM GIGE VISION

Key Features

- Supports auto or manual adjustment for gain, exposure time, white balance, LUT, and Gamma correction.
- Supports functions like CCM and LSC to provide high-quality images.
- Compact design supporting flexible mounting from 4 sides and compatible with C-mount lens.
- Adopts 2.5 GigE interface, and max. transmission distance of 100 meters.
- Compatible with GigE Vision V2.0 Protocol, GenlCam Standard, and third-party software based on the protocol and standard.

Typical Application

- SMT/ PCB AOI
- Consumer electronics
- Electronic semiconductor

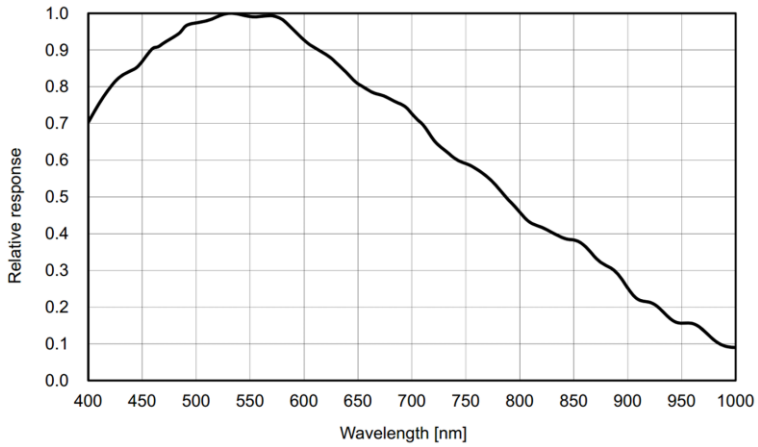
Available Model

- Mono camera: MV-CH200-10NM
- Color camera: MV-CH200-10NC

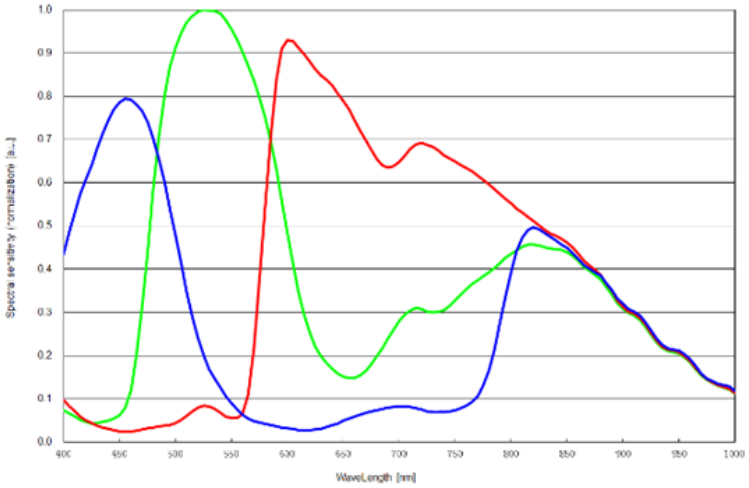
Specification

Model	MV-CH200-10NM	MV-CH200-10NC
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	14 fps @ 5472 × 3648 Mono 8	14 fps @ 5472 × 3648 Bayer RG 8
Dynamic range	71.1 dB	71.5 dB
SNR	41.6 dB	
Gain	0 dB to 24 dB	
Exposure time	46 μs to 10 sec	
Exposure mode	Off/Once/Continuous exposure mode, supports Rolling and Global Reset	
Mono/color	Mono	Color
Pixel format	Mono 8/10/10Packed/12/12Packed	Mono 8/10/12 Bayer RG 8/10/10Packed/12/12Packed YUV422Packed, YUV422_YUYV_Packed RGB 8, BGR 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 and vertical reverse image output	
Electrical feature		
Data interface	2.5 Gigabit Ethernet (2500 Mbit/s), compatible with Gigabit Ethernet (1000 Mbit/s)	
Digital I/O	6-pin P7 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)	
Power supply	9 VDC to 24 VDC, supports PoE	
Power consumption	Typ. 3.3 W @ 12 VDC	Typ. 3.8 W @ 12 VDC
Mechanical		
Lens mount	C-mount	
Dimension	29 mm × 29 mm × 42 mm (1.1" × 1.1" × 1.7")	
Weight	Approx. 100 g (0.2 lb.)	
Ingress protection	IP40 (under proper lens installation and wiring)	
Temperature	Working temperature: 0 °C to 45 °C (32 °F to 113 °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 third-party software meeting with GigE Vision Protocol	
Operating system	32/64-bit Windows 7/10, 64-bit Windows 11, and Linux	
Compatibility	GigE Vision V2.0, GenICam	
Certification	CE, RoHS, KC	

Sensor Quantum Efficiency

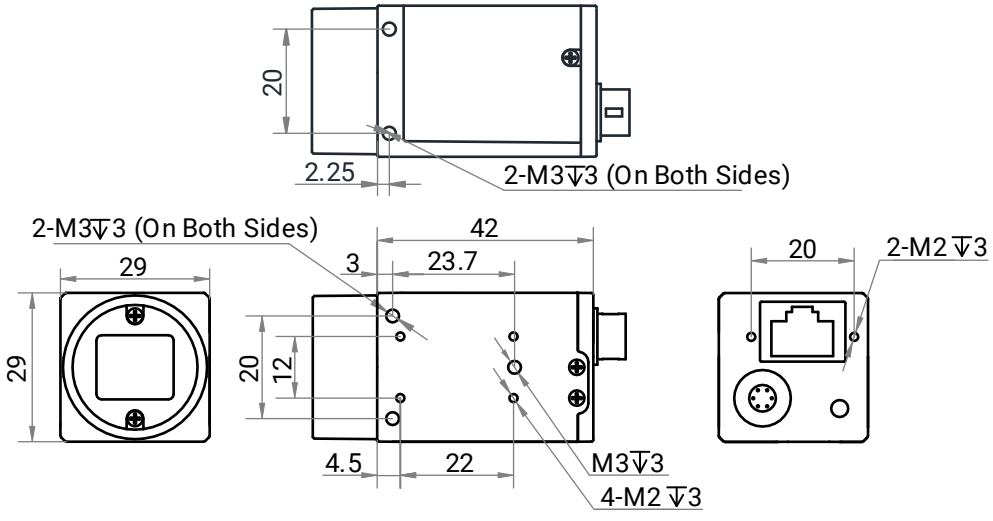


MV-CH200-10NM



MV-CH200-10NC

Dimension



Unit: mm

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