

MV-CU200-20UM/UC

20 MP 1/1.8" CMOS USB3.0 Area Scan Camera



GEN<I>CAM

USBTM
VISION

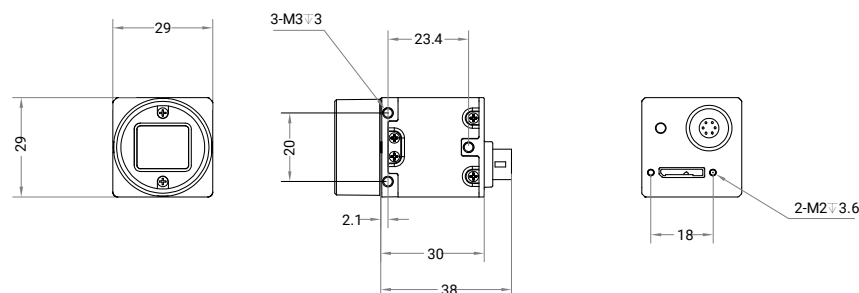
Introduction

MV-CU200-20UM/UC camera adopts AR2020 sensor to provide high-quality images. It uses USB3.0 interface to transmit non-compressed images in real time, and its max. frame rate can reach 18 fps in full resolution.

Key Features

- Adopts brand new design to reduce power consumption.
- Supports auto or manual adjustment of gain, exposure time, manual adjustment of LUT, Gamma correction, etc.
- Supports customized ROI, horizontal and vertical reverse image output.
- Adopts compact design for small spatial installation.
- Compatible with USB3 Vision Protocol, GenICam Standard, and the third-party software based on the protocol and standard.

Dimension



Unit: mm

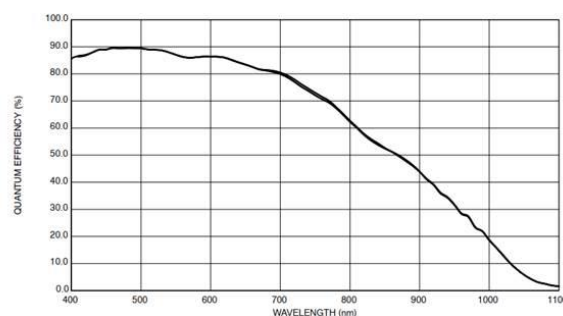
Available Model

- Mono camera: MV-CU200-20UM
- Color camera: MV-CU200-20UC

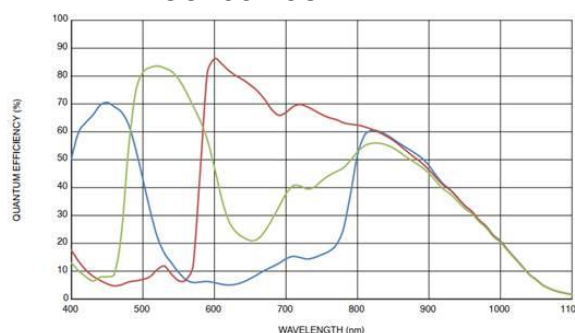
Applicable Industry

Electronic semiconductor, factory automation, liquor and beverage, medicine packing, etc.

Sensor Quantum Efficiency



MV-CU200-20UM



MV-CU200-20UC

Specification

Model	MV-CU200-20UM	MV-CU200-20UC
Performance		
Sensor type	CMOS, rolling shutter	
Sensor model	AR2020	
Pixel size	1.4 μm × 1.4 μm	
Sensor size	1/1.8"	
Resolution	5120 × 3840	
Max. frame rate	18 fps @ 5120 × 3840 Mono 8	18 fps @ 5120 × 3840 Bayer GR 8
Dynamic range	61 dB	
SNR	39 dB	
Gain	0 dB to 48 dB	
Exposure time	54 μs to 10 sec	
Exposure mode	Off/Once/Continuous exposure mode	
Mono/color	Mono	Color
Pixel format	Mono 8/10/10 Packed/12/12 Packed	Mono 8/10/12 Bayer GR 8/10/10 Packed/12/12 Packed
Binning	Supports 1 × 1, 2 × 2, 4 × 4	Supports 1 × 1, 2 × 2
Decimation	Not support	
Reverse image	Supports horizontal and vertical reverse image output	
Electrical features		
Data interface	USB3.0, compatible with USB2.0	
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 USB3.0 power supply	
Power consumption	Typ. 1.8 W @ 5 VDC (USB3.0 provides power supply)	
Mechanical		
Lens mount	C-mount	
Dimension	29 mm × 29 mm × 30 mm (1.1" × 1.1" × 1.2")	
Weight	Approx. 76 g (0.2 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 80% RH (no condensation)	
General		
Client software	MVS or third-party software meeting with USB3 Vision Protocol	
Operating system	32/64-bit Windows 7/10, 64-bit Windows 11, 32/64-bit Linux	
Compatibility	USB3 Vision, GenICam	
Certification	CE, RoHS, KC	