

MV-CB013-20UM/UC-B

1.3 MP 1/2" CMOS USB3.0 Board Level Camera









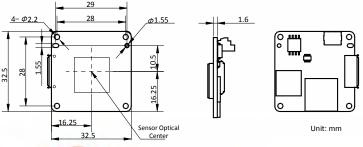
Introduction

MV-CB013-20UM/UC-B camera adopts OnSemi PYTHON1300 sensor and has high frame rate. With single board design, it is small in size, which can meet different spatial requirements.

Key Feature

- Single board design for flexible installation
- Supports auto and manual adjustment for gain, exposure control, white balance, LUT, etc.
- Adopts image interpolation algorithm for color camera to have better color correction
- Power supply and data transmission via USB3.0 interface
- Compatible with USB3 Vision Protocol, GenlCam standard, and the third-party software based on these protocol and standard

Dimension



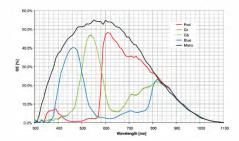
Available Model

Mono camera: MV-CB013-20UM-B Color camera: MV-CB013-20UC-B

Applicable Industry

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

Sensor Quantum Efficiency





Specification

MV-CB013-20UM-B	MV-CB013-20UC-B
CMOS, global shutter	
OnSemi PYTHON1300	
4.8 μm × 4.8 μm	
1/2"	
1280 × 1024	
170 fps @1280 × 1024	
59.6 dB	
39.8 dB	
0 dB to 15 dB	
40 μs to 10 s	65 μs to 10 s
er mode Off/ Once/ Continuous exposure mode	
Mono	Color
Mono 8/10/10p/12/12p	Mono8/10/12, Bayer RG 8/10/10p/12/12p YUV 422 Packed, YUV422_YUYV_Packed, RGB8
Supports 1 × 2 1 × 4 2 × 1 2 × 2 2 × 4 4 × 1	10V 422 Facked, 10V422_101V_Facked, NOB6
	Not support
Supports horizontal and vertical reverse image output	
Reverse image Supports horizontal and vertical reverse image output Electrical features	
USB3.0	
Bi-directional non-isolated I/O x 2 (Line 1, Line 2)	
USB3.0 power supply	
Power consumption < 2.28 W@5 VDC Structure	
32.5 mm × 32.5 mm × 1.6 mm (1.3" × 1.3" × 0.1")	
Approx. 10 g (0.02 lb.)	
Working temperature: 0 °C to 50 °C (32 °F to 122 °F)	
Storage temperature: -30 °C to 70 °C (-22 °F to 158 °F)	
20% to 80% RH, without condensation	
General	
ent software MVS or third-party software with USB3 Vision Protocol	
32/64-bit Windows XP/7/10, 32/64-bit Linux	
USB3 Vision, GenICam	
CE, FCC, RoHS, KC	
	CMOS, global shutter OnSemi PYTHON1300 4.8 µm × 4.8 µm 1/2" 1280 × 1024 170 fps @1280 × 1024 59.6 dB 39.8 dB 0 dB to 15 dB 40 µs to 10 s Off/ Once/ Continuous exposure mode Mono Mono 8/10/10p/12/12p Supports 1 × 2, 1 × 4, 2 × 1, 2 × 2, 2 × 4, 4 × 1, 4 × 2, 4 × 4 Not support Supports horizontal and vertical reverse image USB3.0 Bi-directional non-isolated I/O × 2 (Line 1, Line USB3.0 power supply < 2.28 W@5 VDC 32.5 mm × 32.5 mm × 1.6 mm (1.3" × 1.3" × 0.3 Approx. 10 g (0.02 lb.) Working temperature: 0 °C to 50 °C (32 °F to 12 Storage temperature: -30 °C to 70 °C (-22 °F to 20% to 80% RH, without condensation MVS or third-party software with USB3 Vision 132/64-bit Windows XP/7/10, 32/64-bit Linux USB3 Vision, GenICam



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