



US3

MV-CB013-20UM/UC-S

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

Introduction

MV-CB013-20UM/UC-S camera adopts OnSemi PYTHON1300 sensor and has high frame rate. It adopts M12-mount and is small in size, which can meet different spatial requirements.



- Single board design for flexible installation
- Supports auto and manual adjustment for gain, exposure control, white balance, LUT, Gamma correction, 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

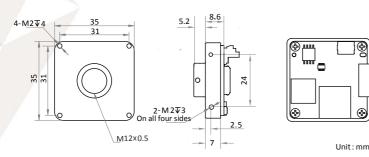
Available Model

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

Applicable Industry

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

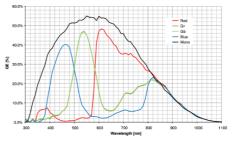
Dimension







GEN**(i)**CAM





Specification

X

Model	MV-CB013-20UM-S	MV-CB013-2	OUC-S	
Camera	•			
Sensor type	CMOS, global shutter			
Sensor model	OnSemi PYTHON1300			
Pixel size	4.8 μm × 4.8 μm			
Sensor size	1/2"			
Resolution	1280 × 1024			
Frame rate	170 fps			
Dynamic range	59.6 dB			
SNR	39.8 dB			
Gain	0 dB to 15 dB			
Exposure time	40 μs to 10 s	65 µs to 10 s	5 µs to 10 s	
Shutter mode	Off/ Once/ Continuous exposure	is exposure mode		
Mono/color	Mono	Color	Color	
Pixel format	Mono 8/10/10p/12/12p	Mono8/10/12, Bayer RG 8/10/10p/12/12p		
		YUV 422 Packed, YUV422_YUYV_Packed, RGB8		
Binning	Supports 1 × 2, 1 × 4, 2 × 1, 2 × 2,	Not support		
	2 × 4, 4 × 1, 4 × 2, 4 × 4			
Decimation	Not support			
Reverse image	Supports horizontal and vertical reverse image output			
Electrical features				
Data interface	USB3.0			
Digital I/O	Bi-directional non-isolated I/O x 2 (Line 1, Line 2)			
Power supply	USB3.0 power supply			
Power consumption	< 2.28 W@5 VDC			
Structure	\sim			
Lens mount	M12-Mount			
Dimension	35 mm × 35 mm × 8.6 mm (1.4" × 1.4" × 0.3")			
Weight	Approx. 30 g (0.07 lb.)			
Temperature	Working temperature: 0 °C to 50 °C (32 °F to 122 °F) Storage temperature: -30 °C to 70 °C (-22 °F to 158 °F)			
Humidity	20% to 80% RH, without condensation			
General				
Client software	MVS or third-party software with	USB3 Vision P	rotocol	
Operating system	32/64-bit Windows XP/7/10, 32/6	64-bit Linux		
Compatibility	USB3 Vision, GenICam		SEDEC	
Certification	CE, FCC, RoHS, KC		IMAGINO	
			Germany, Austria, Switzerland BeNeLux Sedeco Imaging GmbH Sedeco Imaging B.V. Unterer Dammweg 12 Trasmolenlaan 12 76149 Karlsruhe 3447 GZ Woerden Germany the Netherlands 7. +49 721 5604 7980 1. +31 348 749110 info@sedeco-imaging.com info@sedeco-imaging.r	

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