MV-CA003-21UM/UC

0.3 MP 1/4" CMOS USB3.0 Area Scan Camera

GEN‹i›CAM

US3 VISION™

Introduction

MV-CA003-21UM/UC camera adopts PYTHON300 sensor to provide high-quality image. It uses USB3.0 interface to transmit non-compressed images in real time, and its max. frame rate can reach 814.5 fps in full resolution.

Key Feature

- Supports auto and manual adjustment for gain, exposure control, LUT, Gamma correction, etc.
- Supports hardware triggering, software triggering and free run mode.
- Adopts M2 screw holes for securing cable that connects USB3.0 interface.
- Compatible with USB3 Vision Protocol, GenlCam Standard, and the third-party software based on these protocol and standard.
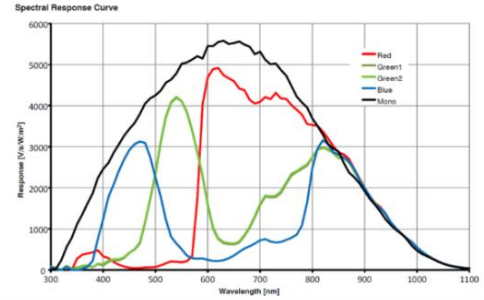
Available Model

- Mono camera : MV-CA003-21UM
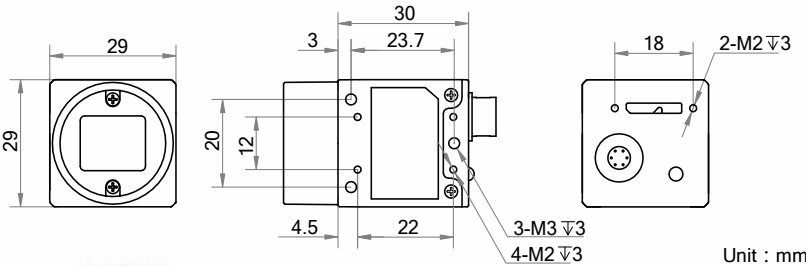- Color camera: MV-CA003-21UC

Applicable Industry

Electronic semiconductor, factory automation, logistics code reading, bottle inspection, medical packaging, etc.

Sensor Quantum Efficiency

Dimension

Unit : mm

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Aremak Bilişim Teknolojileri
Endüstriyel Görüntü İşleme Çözümleri

Adres: ODTÜ Teknokent Bilişim ve İnovasyon Merkezi,
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Specification

Model	MV-CA003-21UM	MV-CA003-21UC
Camera		
Sensor type	CMOS, global shutter	
Sensor model	PYTHON300	
Pixel size	4.8 µm × 4.8 µm	
Sensor size	1/4"	
Resolution	640 × 480	
Max. frame rate	814.5 fps @640 × 480	
Dynamic range	59 dB	
SNR	39.9 dB	
Gain	0 dB to 15 dB	
Exposure time	40 µs to 10 sec	
Exposure mode	Off/Once/Continuous exposure mode	
Mono/color	Mono	Color
Pixel format	Mono 8/10/10p/12/12p	Mono 8/10/12, Bayer RG 8/10/10p/12/12p, YUV422_YUYV_Packed, YUV 422 Packed, RGB8, BGR8
Binning	Supports 1 × 1, 1 × 2, 1 × 4, 2 × 1, 2 × 2, 2 × 4, 4 × 1, 4 × 2, 4 × 4	
Decimation	Supports 1 × 1, 2 × 2	
Reverse image	Supports horizontal and vertical reverse image output	
Image buffer	128 MB	
Electrical feature		
Data interface	USB3.0, compatible with USB2.0	
Digital I/O	6-pin Hirose 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	12 VDC, supports USB3.0 power supply	
Power consumption	Typ. 3.3 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. 56 g (0.12 lb.)	
Ingress protection	IP30 (under proper lens installation and wiring)	
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, non-condensing	
General		
Client software	MVS or third-party software compatible with USB3 Vision Protocol	
Operating system	32/64-bit Windows XP/7/10, 32/64-bit Linux and 64-bit MacOS	
Compatibility	USB3 Vision, GenICam	
Certifications	CE, RoHS, KC	

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Hangzhou Hikrobot Co., Ltd.
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