

MV-CA016-10UM/UC 1.6 MP, 1/2.9[⁻] <u>CMOS, USB3.0 Camera</u>

Introduction

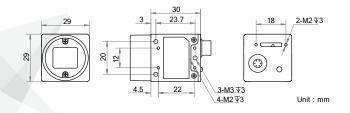
MV-CA016-10UM/UC adopts IMX273 CMOS sensor and provides high quality image. The USB3.0 interface provides high-speed real-time transmission of uncompressed data with the maximum frame rate reaching 165.9 fps at full resolution.



Key Feature

- Supports auto and manual adjustment for exposure control, LUT, Gamma correction, and etc.
- Supports hardware triggering and software triggering
- Compatible with USB3 Vision Protocol and third-party software meeting with the protocol and standard
- Power supply and data transmission via USB3.0 interface
- Compact design for flexible installation

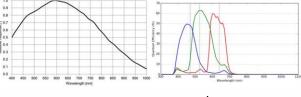
Dimension



Applicable Industry

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

Sensor Quantum Efficiency



MV-CA016-10UM/UC

Available Model

- Mono camera: MV-CA016-10UM
- Color camera: MV-CA016-10UC





Specification

Model	MV-CA016-10UM	MV-CA016-10UC	
Parameters	1.6 MP 1/2.9" CMOS USB3.0 Camera		
Camera			
Sensor type	CMOS, global shutter		
Sensor model	IMX273		
Pixel size	3.45 μm × 3.45 μm		
Sensor size	1/2.9"		
Resolution	1440 x 1080		
Frame rate	165.9 fps		
Dynamic range	71 dB		
SNR	40 dB		
Gain	0 dB to 17 dB		
Exposure time	16 μs to 10 s		
Shutter mode	Off/Once/Continuous exposure mode		
Reverse image	Supports horizontal and vertical reverse image output		
Image buffer	128 MB		
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	
Electrical features			
Data interface	USB 3.0, compatible with USB 2.0		
Digital I/O	Opto-isolated input x 1, Opto-isolated output x 1, Bi-directional non-isolated I/O x 1 $$		
Power supply	5 VDC to 15 VDC, supports USB 3.0 power supply		
Power consumption	< 3 W @5 VDC		
Structure			
Lens mount	C-Mount		
Dimension	29 mm × 29 mm × 30 mm (1.14" × 1.14" × 1.18")		
Weight	< 56 g (0.12 lb.)		
Ingress protection	IP30 (under correct lens installation and wiring)		
Temperature	Working temperature: 0 °C to 50 °C (32 °F to 122 °F)		
	Storage temperature: -30 °C to 70 °	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 compatible with USB3 Vision Protocol		
Operation system	32/64-bit Windows XP/7/10, 32/64-bit Linux and 64-bit MacOS		
Compatibility	USB3 Vision		
Certifications	CE, FCC, RoHS, KC		

HIKVISION°

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