

# CK-U160MI/CI-66GS(N)

## 1.6 MP 1/2.9" CMOS GigE Area Scan Camera



### Introduction

CK-U160MI/CI-66GS(N) camera adopts Sony® IMX296 sensor to provide high-quality images. It uses GigE interface to transmit non-compressed images in real time, and its max. frame rate can reach 65.8 fps in full resolution.

### Key Feature

- Adopts low power consumption design with stable performance.
- Supports auto and manual adjustment of gain, exposure time, etc.
- Supports hardware trigger, software trigger, free run, etc.
- Adopts GigE interface and max. transmission distance of 100 meters without relay.
- Compatible with GigE Vision V2.0 Protocol, GenICam Standard, and third-party software based on the protocol and standard.

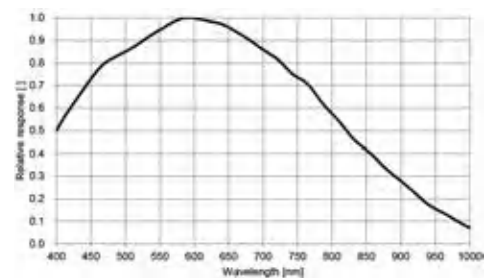
### Available Model

- Mono camera: CK-U160MI-66GS(N)
- Color camera: CK-U160CI-66GS(N)

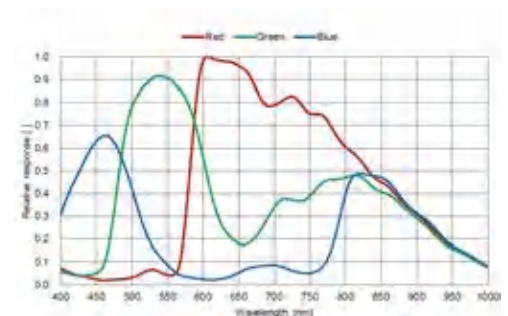
### Applicable Industry

Electronics and semiconductor, factory automation, logistics and code reading, medicine package, etc.

### Sensor Quantum Efficiency

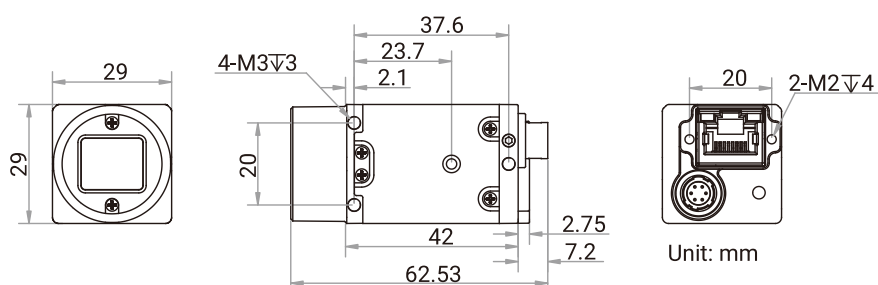


CK-U160MI-66GS(N)



CK-U160CI-66GS(N)

### Dimension



## Specification

Model	CK-U160MI-66GS(N)	CK-U160CI-66GS(N)
<b>Performance</b>		
Sensor type	CMOS, global shutter	
Sensor model	Sony® IMX296	
Pixel size	3.45 μm × 3.45 μm	
Sensor size	1/2.9"	
Resolution	1440 × 1080	
Max. frame rate	65.8 fps @1440 × 1080 Mono 8	65.8 fps @1440 × 1080 Bayer RG 8
Dynamic range	74 dB	
SNR	41 dB	
Gain	0 dB to 24 dB	
Exposure time	UltraShort exposure mode: 1 μs to 14 μs	
	Standard exposure mode: 15 μs to 10 sec	
Exposure mode	Off/Once/Continuous exposure mode	
Mono/color	Mono	Color
Pixel format	Mono 8/10/10Packed/12/12Packed	Bayer RG 8/10/10Packed/12/12Packed
Binning	Supports 1 × 1, 2 × 2, 4 × 4	
Decimation	Supports 1 × 1, 2 × 2, 4 × 4	
Reverse image	Supports horizontal and vertical reverse image output	
<b>Electrical features</b>		
Data interface	Gigabit Ethernet, compatible with Fast Ethernet	
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, No PoE	
Power consumption	Typ. 2 W@12 VDC	
<b>Mechanical</b>		
Lens mount	C-mount	
Dimension	29 mm × 29 mm × 42 mm (1.1" × 1.1" × 1.7")	
Weight	Approx. 100 g (0.2 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 95% RH, non-condensing	
<b>General</b>		
Client software	CKVisionBuiler or third-party software meeting with GigE Vision Protocol	
Operating system	32/64-bit Windows XP/7/10, 32/64-bit Linux and 64-bit MacOS	
Compatibility	GigE Vision V2.0, GenICam	
Certification	CE, RoHS, KC	

