

# CHUM-629M/C-M12

6 MP 1/1.8" CMOS USB3.0 Board Level Camera



GEN*i*CAM

US3™  
VISION

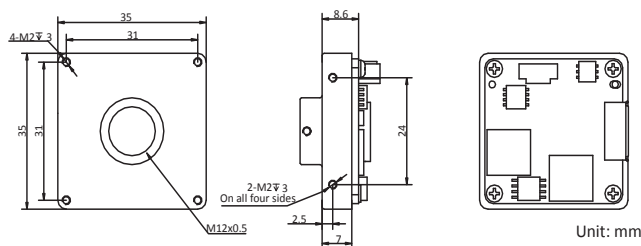
## Introduction

CHUM-629M/C-M12 camera adopts Sony IMX178 sensor to provide high-quality image. It adopts M12-mount and 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, Gamma correction, etc.
- Adopts image interpolation algorithm for color camera to have better color correction
- Compatible with USB3 Vision Protocol, GenICam standard, and the third-party software based on these protocol and standard

## Dimension



## Available Model

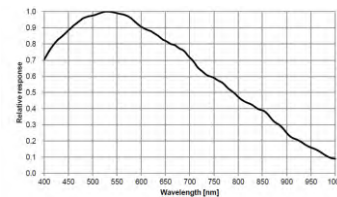
Mono camera: CHUM-629M-M12

Color camera: CHUM-629C-M12

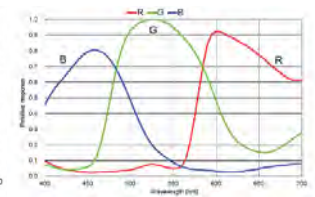
## Applicable Industry

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

## Sensor Quantum Efficiency



CHUM-629M-M12



CHUM-629C-M12

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# Specification

Model	CHUM-629M-M12	CHUM-629C-M12
<b>Camera</b>		
Sensor type	CMOS, rolling shutter	
Sensor model	Sony IMX178	
Pixel size	2.4 $\mu\text{m}$ $\times$ 2.4 $\mu\text{m}$	
Sensor size	1/1.8"	
Resolution	3072 $\times$ 2048	
Max. frame rate	17 fps @3072 $\times$ 2048	29 fps @3072 $\times$ 2048
Dynamic range	71.3 dB	
SNR	41.3 dB	
Gain	0 dB to 20 dB	
Exposure time	27 $\mu\text{s}$ to 2.5 s	24 $\mu\text{s}$ to 2.5 s
Shutter mode	Supports Off/ Once/ Continuous exposure mode	
Mono/color	Mono	Color
Pixel format	Mono 8/10/10p/12/12p	Mono8/10/12, Bayer RG 8/10/10p/12/12p YUV422Packed, YUV422_YUYV_Packed, RGB8
Acquisition mode	Continuous mode and SingleFrame mode	
Binning	Supports 2 $\times$ 2	
Decimation	Not support	
Reverse image	Supports horizontal reverse image output	
<b>Electrical features</b>		
Data interface	USB3.0	
Digital I/O	Bi-directional non-isolated I/O $\times$ 2 (Line 1, Line 2)	
Power supply	USB3.0 power supply	
Power consumption	< 2.0 W@5 VDC	
<b>Structure</b>		
Lens mount	M12-Mount	
Dimension	35 mm $\times$ 35 mm $\times$ 8.6 mm (1.4" $\times$ 1.4" $\times$ 0.3")	
Weight	Approx. 30 g (0.07 lb.)	
Temperature	Working temperature: 0 $^{\circ}\text{C}$ to 50 $^{\circ}\text{C}$ (32 $^{\circ}\text{F}$ to 122 $^{\circ}\text{F}$ ) Storage temperature: -30 $^{\circ}\text{C}$ to 70 $^{\circ}\text{C}$ (-22 $^{\circ}\text{F}$ to 158 $^{\circ}\text{F}$ )	
Humidity	20% to 80% RH, without condensation	
<b>General</b>		
Client software	MVS or third-party software meeting with USB3 Vision Protocol	
Operating system	32/64-bit Windows XP/7/10, 32/64-bit Linux	
Compatibility	USB3 Vision, GenICam	
Certification	CE, FCC, RoHS, KC	