CHUM-1200M/C

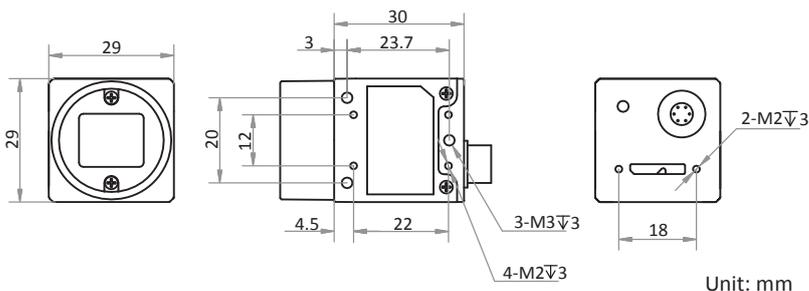## 12 MP 1/1.7" CMOS USB3.0 Area Scan Camera

GEN<i>CAM

US3 VISION

Introduction

CHUM-1200M/C camera adopts Sony® IMX226 sensor to provide high-quality image. It uses USB3.0 interface to transmit non-compressed images in real time with max. frame rate reaching 30 fps in full resolution.

Key Feature

- Supports auto and manual adjustment for gain, exposure control, white balance, LUT, Gamma correction, etc.
- Supports hardware trigger, software trigger, etc.
- Supports Off, Once, Continuous exposure mode.
- Compatible with USB3 Vision Protocol, GenlCam Standard, and the third-party software based on the protocol and standard.
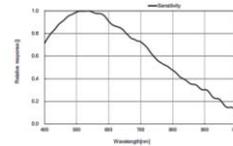
Available Model
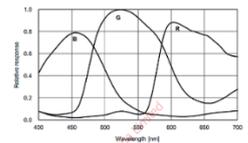
- Mono Camera: CHUM-1200M
- Color Camera: CHUM-1200C

Applicable Industry

SMT/ PCB AOI, FPD, etc.

Sensor Quantum Efficiency

CHUM-1200M   CHUM-1200C

Dimension

Unit: mm

Specification

Model	CHUM-1200M	CHUM-1200C
Camera		
Sensor type	Rolling shutter CMOS	
Sensor model	Sony IMX226	
Pixel size	1.85 µm × 1.85 µm	
Sensor size	1/1.7"	
Resolution	4000 × 3036	
Max. frame rate	30 fps@4000 × 3036	
Dynamic range	70.5 dB	
SNR	40.5 dB	
Gain	0 dB to 27 dB	
Exposure time	10 µs to 500 ms	
Shutter mode	Off/Once/Continuous exposure mode, supports global reset	
Mono/color	Mono	Color
Pixel format	Mono 8/10/10p/12/12p	Mono 8/10/12, RGB 8, BGR 8, Bayer RG 8/10/10p/12/12p, YUV422Packed, YUV422_YUYV_Packed
Binning	Supports 2 x 2, 4 x 4	Not support
Decimation	Supports 2 x 2, 4 x 4	Not support
Reverse image	Supports horizontal and vertical reverse image output	
Image buffer	128 MB	
Electrical features		
Data interface	USB3.0	
Digital I/O	6-pin Hirose connector provides power and I/O, including Opto-isolated input x 1 (Line 0), Opto-isolated output x 1 (Line 1), bi-directional non-isolated I/O x 1 (Line 2).	
Power supply	9 VDC to 24 VDC, USB3.0 power supply	
Power consumption	< 3.18 W@12 VDC	< 3.42 W@12 VDC
Structure		
Lens mount	C-Mount	
Dimension	29 mm × 29 mm × 30 mm (1.1" × 1.1" × 1.2")	
Weight	Approx. 80 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 80% RH, without condensation	
General		
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 and 64-bit MacOS	
Compatibility	USB3 Vision, GenICam	
Certification	CE, FCC, RoHS, KC	