CHUM-1200M/C-B

12 MP 1/1.7" CMOS USB3.0 Board Level Camera

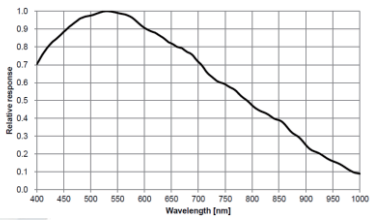
Introduction

CHUM-1200M/C-B camera adopts Sony IMX 226 chip and provides high quality image. It adopts compact design and is small in size which can meet different spatial requirements.

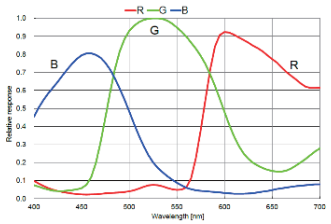
Key Feature

- Single board design for flexible installation
- Supports auto and manual adjustment for gain, exposure control, white balance, LUT, Gamma correction, and etc
- Adopts image interpolation algorithm for color camera to have better color correction
- Power supply and data transmission via USB3.0 interface
- Compatible with USB3 Vision Protocol, GenlCam standard, and the third-party software based on these protocol and standard.

Sensor Quantum Efficiency



CHUM-1200M-B



CHUM-1200C-B

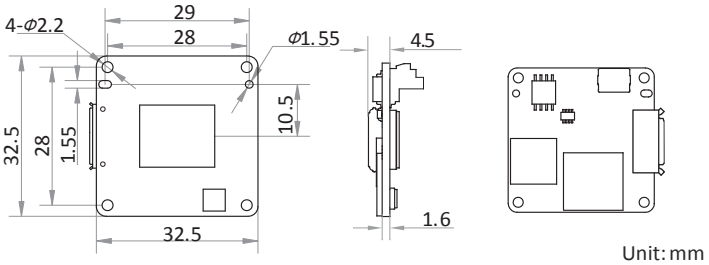
Applicable Industry

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

Available Model

- Mono Camera: CHUM-1200M-B
- Color Camera: CHUM-1200C-B

Dimension



Unit: mm

HOURS
www.hours-web.com

Specification

Model / Parameters	CHUM-1200M-B	CHUM-1200C-B
	12 MP 1/1.7" CMOS USB3.0 Board Level Camera	
Camera		
Sensor type	CMOS, rolling shutter	
Sensor model	Sony IMX226	
Pixel size	1.85 μm × 1.85 μm	
Sensor size	1/1.7"	
Resolution	4032 × 3036	
Frame rate	28 fps	21 fps
Dynamic range	65 dB	
SNR	40 dB	
Gain	0 dB to 20 dB	
Exposure time	11 μs to 2 s	23 μs to 2 s
Shutter mode	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 YUV 422 Packed, YUV422_YUYV_Packed, RGB8
Acquisition mode	Continuous mode, single frame mode	
Binning	Not support	
Decimation	1 × 1, 1 × 2, 2 × 1, 2 × 2	Not support
Reverse image	Supports horizontal and vertical reverse image output	
Electrical features		
Data interface	USB3.0, USB2.0	
Digital I/O	Bi-directional non-isolated I/O x 2 (Line1, Line2)	
Power supply	USB3.0 power supply	
Power consumption	< 2.45 W@5 VDC	
Structure		
Dimension	32.5 mm x 32.5 mm x 4.5 mm (0.07" x 0.07" x 0.01")	
Weight	Approx. 10 g (0.02lb)	
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 with USB3 Vision Protocol	
Operating system	Windows XP/7/10 32/64bits, Linux 32/64bits or MacOS 64bits	
Compatibility	USB3 Vision, GenICam	
Certification	CE, FCC, RoHS	