CHCM-1200C

12 MP 1.1" CMOS CameraLink Area Scan Camera

GEN<i>CAM

CAMERA Link

Introduction

CHCM-120C camera adopts Sony® IMX253 sensor to provide high-quality image. It uses CameraLink interface to transmit non-compressed images in real time with max. frame rate reaching 68.1 fps in full resolution.

Key Feature

- Adopts global shutter CMOS sensor providing wide dynamic range and high-quality image.
- Supports configuration modes of Base, Medium, Full and 80-bit via the CameraLink interface.
- Adopts compact design with mounting holes for flexible mounting.
- Compatible with CameraLink V2.0 Protocol, GenICam Standard, and the third-party software based on the protocol and standard.
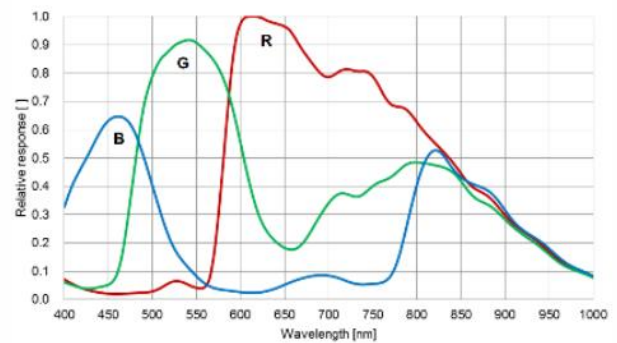
Available Model
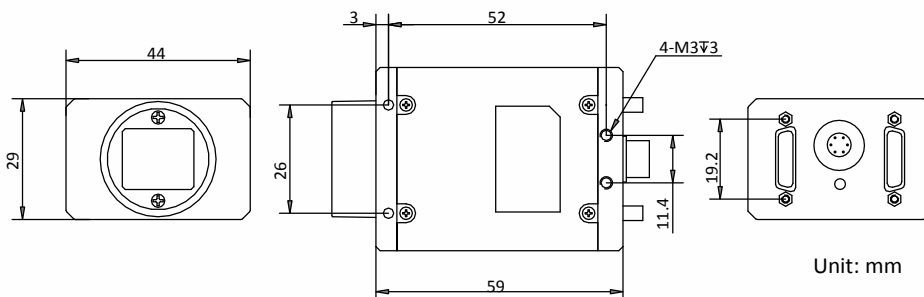
Color Camera: CHCM-1200C

Applicable Industry

SMT/ PCB AOI, FPD, high-accuracy measurement, etc.

Sensor Quantum Efficiency

Dimension

Unit: mm

HOURS
www.hours-web.com

Specification

Model	CHCM-1200C
Camera	
Sensor type	Global shutter CMOS
Sensor model	Sony® IMX253
Pixel size	3.45 µm × 3.45 µm
Sensor size	1.1"
Max. resolution	2 Taps, 4 Taps, 8 Taps: 4096 × 3000; 10 Taps: 3840 × 3000
Pixel clock	40 MHz, 60 MHz, 70 MHz, 85 MHz
Configuration mode	Base, Medium, Full, 80-bit
Sensor combination	1X_1Y, 1X2_1Y, 1X4_1Y, 1X8_1Y, 1X10_1Y
Tap number	1 Tap, 2 Taps, 4 Taps, 8 Taps, 10 Taps
Max. frame rate	51.4 fps @4096 × 3000 68.1 fps @3840 × 3000
Pixel format	Bayer RG 8/10/12, RGB 8
Dynamic range	71.6 dB
SNR	39.7 dB
Gain	0 dB to 24 dB
Exposure time	1 µs to 10 s
Shutter mode	Off/Once/Continuous exposure mode
Mono/color	Color
Binning	Not support
Decimation	Not support
Reverse image	Supports horizontal and vertical reverse image output
Electrical features	
Data interface	CameraLink with SDR interface
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), and bi-directional non-isolated I/O x 1 (Line 2).
Power supply	9 VDC to 24 VDC
Power consumption	Approx. 4.68 W@12 VDC
Structure	
Lens mount	C-mount
Dimension	44 mm × 29 mm × 59 mm (1.7" × 1.1" × 2.3")
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 80% RH, without condensation
General	
Client software	MVS or frame grabber software meeting with CameraLink V2.0, GenICam Protocol
Operating system	32/64-bit Windows 7/10
Compatibility	CameraLink V2.0, GenICam
Certification	CE, FCC, RoHS, KC