CHCPM-15110M

151 MP CMOS CoaXPress Area Scan Camera

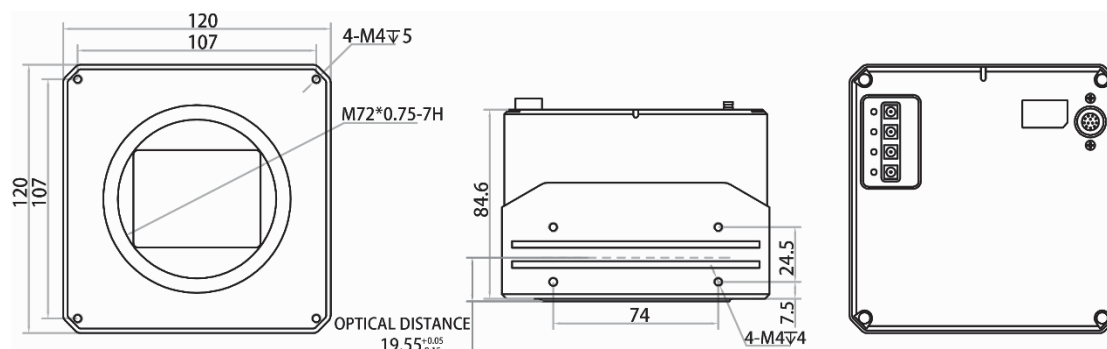**GEN<i>CAM**

CoaXPress®

Introduction

CHCPM-15110M camera adopts Sony® IMX411 sensor to provide high-quality image. It uses CoaXPress interface to transmit non-compressed images in real time with max. frame rate reaching 6.2 fps in full resolution.

Key Feature

- Resolution of 14208 × 10640, pixel size of 3.76 μm × 3.76 μm.
- Adopts rolling shutter CMOS to provide high dynamic range, SNR, and high-quality image.
- Adopts CoaXPress interface to transmit data.
- Supports Off, Once, Continuous exposure mode, global reset.
- Adopts TEC to keep the camera's sensor temperature around environment temperature.
- Compatible with CoaXPress Protocol, GenlCam Standard, and third-party software based on the protocol and standard.

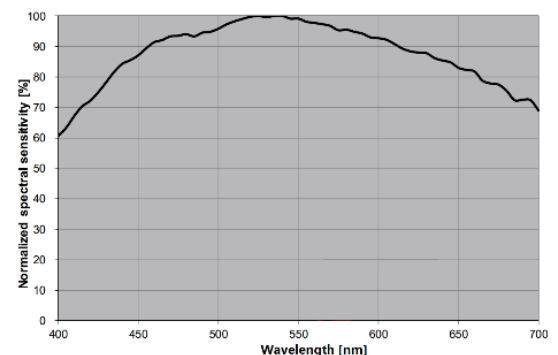## Available Model

CHCPM-15110M

Applicable Industry

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

Sensor Quantum Efficiency

Dimension

Specification

Model	CHCPM-15110M
Camera	
Sensor type	Rolling shutter CMOS
Sensor model	Sony® IMX411
Pixel size	3.76 µm × 3.76 µm
Sensor size	60.33 mm × 47.90 mm
Resolution	14208 × 10640
Max. frame rate	6.2 fps @14208 × 10640
Dynamic range	90 dB
SNR	45 dB
Gain	0 dB to 30 dB
Exposure time	15 µs to 10 s
Shutter mode	Off/Once/Continuous exposure mode, supports rolling and global reset
Mono/color	Mono
Pixel format	Mono 8 /10/12/16
Binning	1 × 2, 1 × 4, 2 × 1, 2 × 2, 2 × 4, 4 × 1, 4 × 2, 4 × 4
Decimation	Not support
Reverse image	Supports horizontal reverse image output
Electrical features	
Data interface	CoaXPress with DIN interface
Digital I/O	12-pin Hirose connector provides 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), and RS232 x 1.
Power supply	24 VDC
Power consumption	Approx. 21 W@24 VDC (Non-TEC cooling mode)
	Approx. 55 W@24 VDC (TEC cooling mode)
Structure	
Lens mount	M72-Mount, optical back focal length 19.55 mm (0.8")
Dimension	120 mm × 120 mm × 84.6 mm (4.7" × 4.7" × 3.3")
Weight	Approx. 1.9 kg (4.2 lb.)
Ingress protection	IP40 (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, without condensation
General	
Client software	Frame grabber software meeting with CoaXPress Protocol
Operating system	32/64-bit Windows 7/10 with 8 GB memory or above
Compatibility	CoaXPress, GenlCam
Certifications	CE, FCC, RoHS, KC