CHCPM-6500M

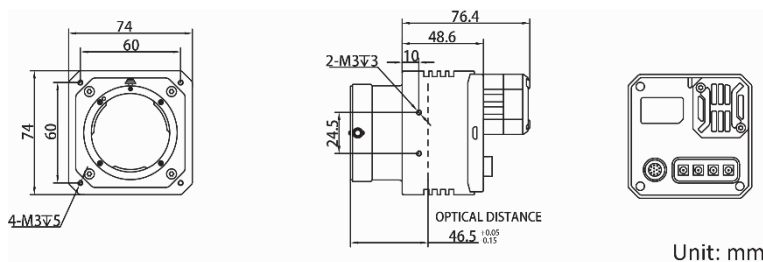## 65 MP CMOS CoaXPress Area Scan Camera

Introduction

CHCPM-6500M camera adopts Gpixel GMAX3265 sensor and CoaXPress interface to provide high-quality and non-compressed images in real time. Its max. frame rate reaches up to 31.5 fps in full resolution.
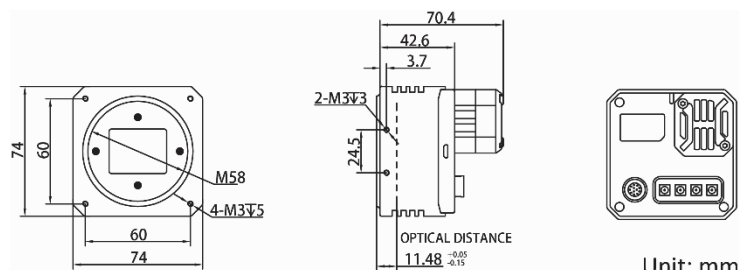
Key Feature

- Resolution of 9216 × 7000, pixel size of 3.2 μm × 3.2 μm
- Adopts global shutter CMOS to provide high dynamic range, SNR, and high-quality image.
- Adopts CoaXPress interface to transmit data.
- Supports Off, Once, and Continuous exposure mode.
- Compatible with CoaXPress Protocol, GenICam Standard, and third-party software based on the protocol and standard.
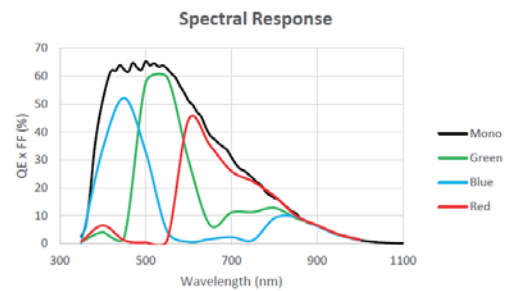
Available Model

- Mono: M58-mount with fan: CHCPM-6500M-M58
- Mono: F-mount with fan: CHCPM-6500M-F

Applicable Industry

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

Sensor Quantum Efficiency

Dimension

F-mount with fan:

M58-mount with fan:

Unit: mm

Specification

Model	CHCPM-6500M
Camera	
Sensor type	Global shutter CMOS
Sensor model	Gpixel GMAX3265
Pixel size	3.2 μm × 3.2 μm
Sensor size	29.9 mm × 22.4 mm
Resolution	9216 × 7000
Max. frame rate	31.5 fps @9216 × 7000
Dynamic range	66 dB
SNR	40 dB
Gain	1.25x to 6x
Exposure time	14 μs to 10 s
Shutter mode	Off/Once/Continuous exposure mode
Mono/color	Mono
Pixel format	Mono 8 /10/12
Binning	1 × 2, 1 × 4, 2 × 1, 2 × 2, 2 × 4, 4 × 1, 4 × 2, 4 × 4
Decimation	Not support
Reverse image	Supports horizontal and vertical 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	9 VDC to 24 VDC
Power consumption	Approx. 12 W@12 VDC
Structure	
Lens mount	F-Mount: optical back focal length 46.5 mm (1.8")
	M58-Mount: optical back focal length 11.48 mm (0.5")
Dimension	F-Mount: 74 mm × 74 mm × 76.4 mm (2.9" × 2.9" × 3.0")
	M58-Mount: 74 mm × 74 mm × 70.4 mm (2.9" × 2.9" × 2.8")
Weight	F-Mount: Approx. 500 g (1.1 lb.)
	M58-Mount: Approx. 470 g (1.0 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