MV-CH430-90XM

43 MP CMOS CoaXPress Area Scan Camera

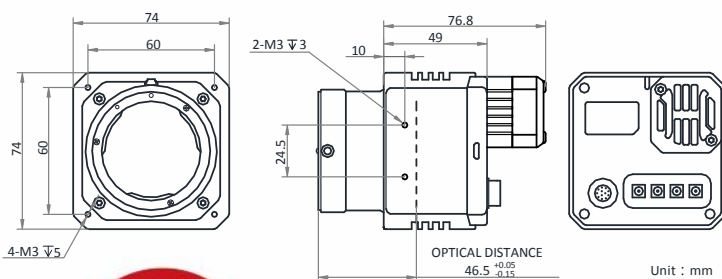GEN<i>CAM

CoaXPress®

Introduction

MV-CH430-90XM camera adopts GMAX0806 sensor to provide high-quality image. It uses CoaXPress interface to transmit non-compressed images in real time. With high dynamic range and signal-noise ratio, the camera is an ideal selection for detecting boards.
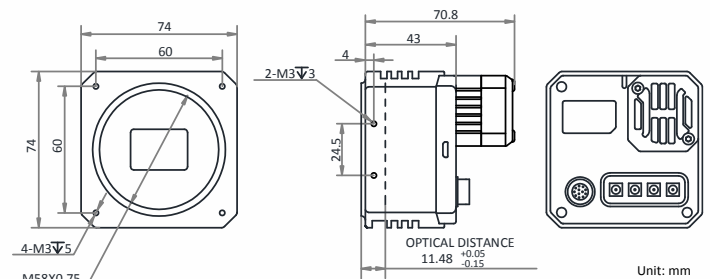
Key Feature

- Resolution of 7904 × 5432, and pixel size of 2.8 μm × 2.8 μm
- Adopts global shutter CMOS to provide high dynamic range, SNR, and high-quality image.
- Supports PRNU and FPN.
- Adopts CXP-6 interface to transmit data.
- Compatible with CoaXPress Protocol and GenICam Standard.
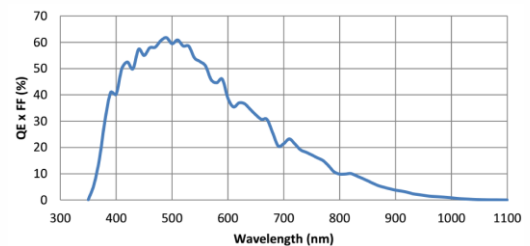
Available Model

M58-mount with fan, mono camera: MV-CH430-90XM-M58S-NF

F-mount with fan, mono camera: MV-CH430-90XM-F-NF

Applicable Industry

PCB AOI, FPD, high-accuracy measurement, railway related application, etc.

Sensor Quantum Efficiency

Dimension

F-mount with fan:

OPTICAL DISTANCE 46.5 $^{+0.05}_{-0.15}$

Unit : mm

M58-mount with fan:

OPTICAL DISTANCE 11.48 $^{+0.05}_{-0.15}$

Unit: mm

Specification

Model	MV-CH430-90XM
Camera	
Sensor type	Global shutter CMOS
Sensor model	GMAX0806
Pixel size	2.8 µm × 2.8 µm
Sensor size	22.16 mm × 15.22 mm
Resolution	7904 × 5432
Max. frame rate	4 CH (6.25 Gbps): 16.4 fps @7904 × 5432
	2 CH (6.25 Gbps): 16.4 fps @7904 × 5432
	1 CH (6.25 Gbps): 13 fps @7904 × 5432
Mono/color	Mono
Pixel format	Mono 8/10/12
Dynamic range	69 dB
SNR	39 dB
Gain	2.0 x to 6.0 x
Exposure time	12 µs to 2 s
Shutter mode	Off/Once/Continuous exposure mode
Acquisition mode	Continuous mode, single frame mode
Reverse image	Supports horizontal and vertical reverse image output
Electrical features	
Data interface	CoaXPress (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), RS232 x 1.
Power supply	9 VDC to 24 VDC
Power consumption	< 7.2 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 × 76.8 mm (2.9" × 2.9" × 3.0")
	M58-Mount: 74 mm × 74 mm × 70.8 mm (2.9" × 2.9" × 2.8")
Weight	F-Mount: Approx. 650 g (1.4 lb.)
	M58-Mount: Approx. 540 g (1.2 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, GenICam

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