

MV-CH430-90XM-F-NF

43 MP CMOS CoaXPress Area Scan Camera

Introduction

MV-CH430-90XM-F-NF camera adopts CMOS global shutter sensor and provides high quality image. It transmits data via CXP-6 interface. With high dynamic range and high signal-noise ratio, the camera is an ideal selection for detecting boards.



GEN<i>i>CAM CoaXPress

Key Feature

- Resolution 7904 × 5432 and pixel size 2.8 μm × 2.8 μm
- Supports PRNU and FPN
- Adopts CXP-6 interface to transmit data
- Compatible with CoaXPress Protocol and GeniCam Standard
- CMOS global shutter, high dynamic range, high signal-noise ratio and high quality image

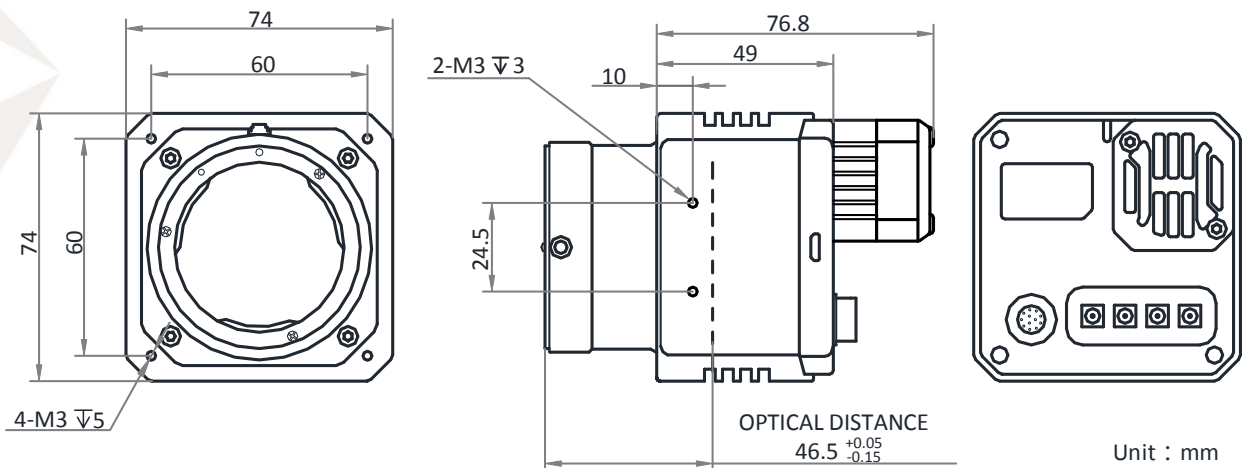
Applicable Industry

SMT/PCB AOI, FPD, railway related application and etc.

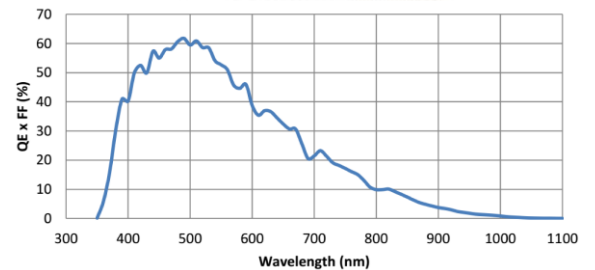
Available Model

MV-CH430-90XM-F-NF

Dimension



Sensor Quantum Efficiency



MV-CH430-90XM-F-NF



Specification

Model	MV-CH430-90XM-F-NF
Parameters	43 MP CMOS CoaXPress Area Scan Camera
Camera	
Sensor type	CMOS, global shutter
Sensor model	GMAX0806
Pixel size	2.8 μm × 2.8 μm
Sensor size	22.16 mm × 15.22 mm
Resolution	7904 × 5432
Pixel clock	80 MHz
Frame rate	4 CH (6.25 Gbps): 16.35 fps; 2 CH (6.25 Gbps): 16.35 fps; 1 CH (6.25 Gbps): 13 fps
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	33.25 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 I/O interface; opto-isolated input x1 (Line 0), opto-isolated output x1 (Line 1), Bi-directional non-isolated I/O x 1 (Line 2), RS-232 x1, and RS-485 interface x 1
Power supply	8 VDC to 30 VDC
Power consumption	< 7.2 W@12 VDC
Structure	
Lens mount	F-Mount, optical back focal length 46.5 mm (1.8")
Dimension	74 mm × 74 mm × 76.8 mm (2.9" × 2.9" × 3.0")
Weight	Approx. 650 g (1.4 lb.)
Ingress protection	IP 40 (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 with CoaXPress Protocol
Operating system	Windows 7/10 32/64 bits
Compatibility	CoaXPress, GenICam
Certification	CE, FCC, RoHS



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