MV-CH6040-10XM

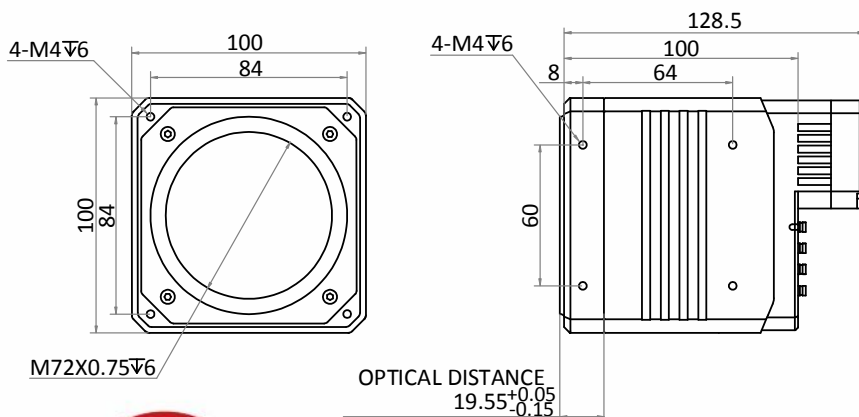## 604 MP CMOS CoaXPress Area Scan Camera

GEN<i>CAM

CoaXPress®

Introduction

MV-CH6040-10XM camera adopts Sony® IMX411 sensor to provide high-quality images. It uses CXP-6 interface to transmit non-compressed images in real time, and its max. frame rate can reach 1.45 fps in full resolution.

Key Feature

- Resolution of 28416 × 21280, pixel size of 3.76 μm × 3.76 μm.
- Supports 151 MP or 604 MP resolution mode.
- Adopts ISP algorithm to improve image quality.
- Supports FFC correction and 16-bit ADC output.
- Adopts CXP-6 interface to transmit data.
- Compatible with CoaXPress Protocol and GenICam Standard, and third-party software based on the protocol and standard.
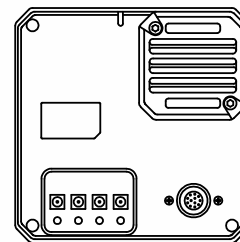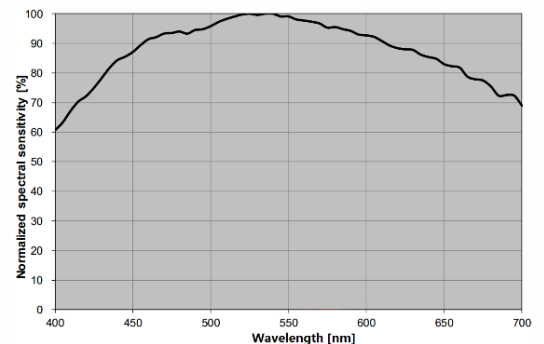
Available Model

MV-CH6040-10XM-M72-NF

Applicable Industry

FPD detection, PCB AOI, file scanning, etc.

Sensor Quantum Efficiency

Dimension

4-M4▽6
100
84
100
84
M72X0.75▽6

4-M4▽6
128.5
100
64
8
60
OPTICAL DISTANCE
19.55$^{+0.05}_{-0.15}$

Unit: mm

Specification

Model	MV-CH6040-10XM
Camera	
Sensor type	CMOS, rolling shutter
Sensor model	Sony® IMX411
Pixel size	3.76 μm × 3.76 μm
Sensor size	66.7 mm
Resolution	28416 × 21280
Max. frame rate	1.45 fps @28416 × 21280
Dynamic range	78.7 dB
SNR	46.4 dB
Gain	0 dB to 40 dB
Exposure time	15 μs to 1 sec (604 MP)
Exposure mode	Off/Once/Continuous exposure mode, supports Rolling and Global Reset
Mono/color	Mono
Pixel format	Mono 8/10/12/16
Binning	Supports 1 × 1, 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 P10 connector provides power and I/O, including opto-isolated input × 1 (Line 0), opto-isolated output × 1 (Line 1), bi-directional non-isolated I/O × 1 (Line 2), and RS-232 × 1.
Power supply	24 VDC
Power consumption	Typ. 15 W@24 VDC
Mechanical	
Lens mount	M72-mount, optical back focal length 19.55 mm (0.8")
Dimension	100 mm × 100 mm × 128.5 mm (3.9" × 3.9" × 5.1")
Weight	Approx. 1.4 kg (3.1 lb.)
Ingress protection	IP40 (under proper lens installation and wiring)
Temperature	Performance temperature: 20 °C to 35 °C (68 °F to 95 °F)
	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, non-condensing
General	
Client software	MVS or frame grabber software meeting with CoaXPress Protocol
Operating system	64-bit Windows 7/10 with 16 GB memory or above
Compatibility	CoaXPress, GenlCam
Certification	CE, FCC, RoHS, KC

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