MV-CH310-10GM-F-NF
31 MP CMOS Area Scan Camera

Introduction

MV-CH310-10GM-F-NF is a high-end area scan camera of the CH series. It adopts Sony IMX 342 CMOS sensor and provides high quality image with high resolution and low noise. The Gigabit Ethernet interface provides high speed real-time transmission of uncompressed data.

GiGE VISION   GEN<i>CAM

Key Feature

- Supports auto and manual adjustment for gain, exposure control, white balance, LUT, Gamma correction, and etc.
- Supports hardware triggering, software triggering and free run mode
- Customized ROI allows to increase the frame rate via resolution reduction
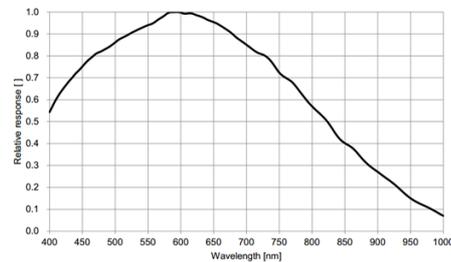- Supports horizontal and vertical reverse image output

Applicable Industry

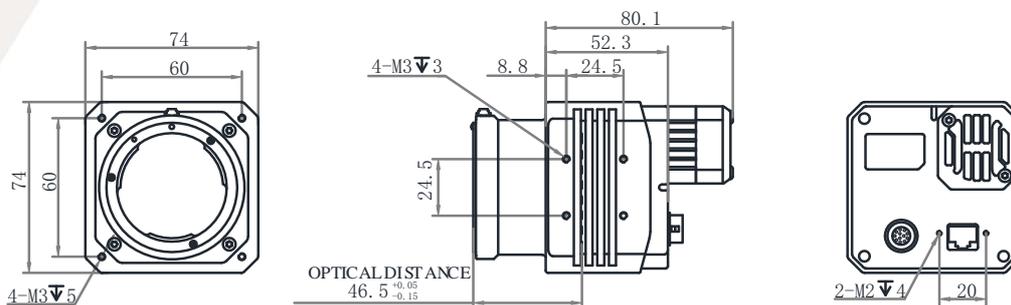PCB AOI, FPD, railway, aerial photograph, document scanning and etc.

Available Model

Mono camera: MV-CH310-10GM-F-NF

Sensor Quantum Efficiency

Dimension

Unit：mm

Specification

Model	MV-CH310-10GM-F-NF
Parameters	31 MP CMOS Area Scan Camera
Camera	
Sensor type	CMOS, global shutter
Sensor model	IMX 342
Pixel size	3.45 μm × 3.45 μm
Sensor size	24.9 mm(H) x 16.6 mm(V)
Resolution	6464 × 4852
Maximum Frame rate	Mono8 3.9fps
Dynamic range	73 dB
SNR	40 dB
Gain	0 dB to 24 dB
Exposure time	Minimum exposure: 3 μs to 33 μs; normal exposure: 36 μs to 2 s
Shutter mode	Off/ Once /Continuous exposure mode
Pixel format	Mono 8/10/10p/12/12p
Acquisition mode	Continuous mode, single frame mode
Binning	2 × 2
Decimation	2 × 2
Reverse image	Supports horizontal and vertical reverse image output
Image buffer	256 MB
Electrical features	
Data interface	Gigabit Ethernet
Digital I/O	12-pin Hirose connector provides power supply and 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, and RS485 x 1
Power supply	9 VDC to 26 VDC
Power consumption	9 W@12 VDC
Structure	
Lens mount	F-Mount, back optical focal length: 46.5 mm
Dimension	74 mm x 74 mm x 80.1 mm (2.9" x 2.9" x 3.2")
Weight	< 600 g (1.3 lb.)
Ingress protection	IP40 (with lens and cables correctly installed)
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	MVS or third-party software meeting with GigE Vision Protocol
Operating system	32/64-bit Windows XP/7/10, 32/64-bit Linux, 64-bit MacOS
Compatibility	GigE Vision, GenICam
Certification	CE, FCC, RoHS, KC