

MV-CH1510-10FM

151 MP CMOS 10 GigE Area Scan Camera



GEN*i*CAM

10GiGE
VISION

Introduction

MV-CH1510-10FM camera adopts Sony® IMX411 sensor to provide high-quality images. It uses 10 GigE interface to transmit non-compressed data in real time, and its max. frame rate can reach 6.2 fps in full resolution.

Key Feature

- Supports Binning, LSC Sequencer, FFC and other ISP functions.
- Adopts 10GigE over Fiber interface to transmit data, and max. transmission distance reaches 300 m.
- Adopts TEC technology to reduce sensor temperature and ensure high-quality images under long-time exposure condition.
- Compatible with GigE Vision V2.0 Protocol, GenICam Standard, and third-party software based on the protocol and standard.

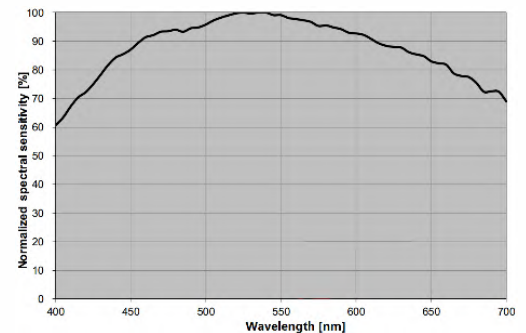
Available Model

MV-CH1510-10FM-M72-TF

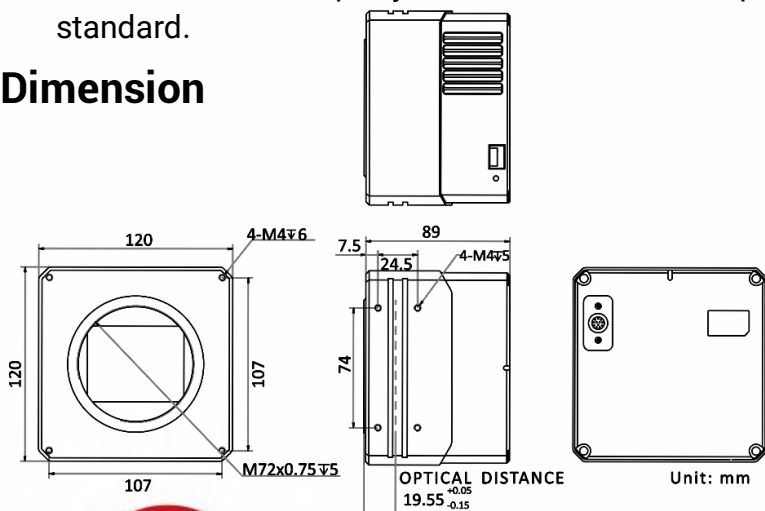
Applicable Industry

PCB AOI, FPD, astronomy surveying and mapping, railway related application, etc.

Sensor Quantum Efficiency



Dimension



Specification

Model	MV-CH1510-10FM
Camera	
Sensor type	CMOS, rolling shutter
Sensor model	Sony® IMX411
Pixel size	3.76 μm × 3.76 μm
Sensor size	66.7 mm
Resolution	14208 × 10640
Max. frame rate	6.2 fps @14208 × 10640
Dynamic range	78.7 dB
SNR	45 dB
Gain	0 dB to 36 dB
Exposure time	30 μs to 10 sec
Exposure mode	Off/Once/Continuous exposure mode, supports Global Reset and Rolling mode
Mono/Color	Mono
Pixel format	Mono 8/10/10p/12/12p/16
Binning	Supports 1 × 1, 1 × 2, 1 × 4, 2 × 1, 2 × 2, 2 × 4, 4 × 1, 4 × 2, 4 × 4
Decimation	Supports 1 × 1, 1 × 2, 1 × 4, 2 × 1, 2 × 2, 2 × 4, 4 × 1, 4 × 2, 4 × 4
Reverse image	Supports horizontal reverse image output
Electrical feature	
Data interface	10 Gigabit Ethernet
Digital I/O	12-pin Hirose 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), RS-232 × 1
Power supply	24 VDC
Power consumption	Typ. 11.3 W@24 VDC (non-TEC mode) Typ. 49 W@24 VDC (TEC mode)
Mechanical	
Lens mount	M72*0.75, optical back focal length 19.55 mm (0.8")
Dimension	120 mm × 120 mm × 89 mm (4.7" × 4.7" × 3.5")
Weight	Approx. 2.5 kg (5.5 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, non-condensing
General	
Client software	MVS or third-party software meeting with GigE Vision Protocol
Operating system	32/64-bit Windows XP/7/10
Compatibility	GigE Vision V2.0, GenICam
Certification	CE, RoHS, KC



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