

MV-CH1510-10FM

151 MP CMOS 10 GigE Area Scan Camera



GEN*i*CAM

10GiGE
VISION

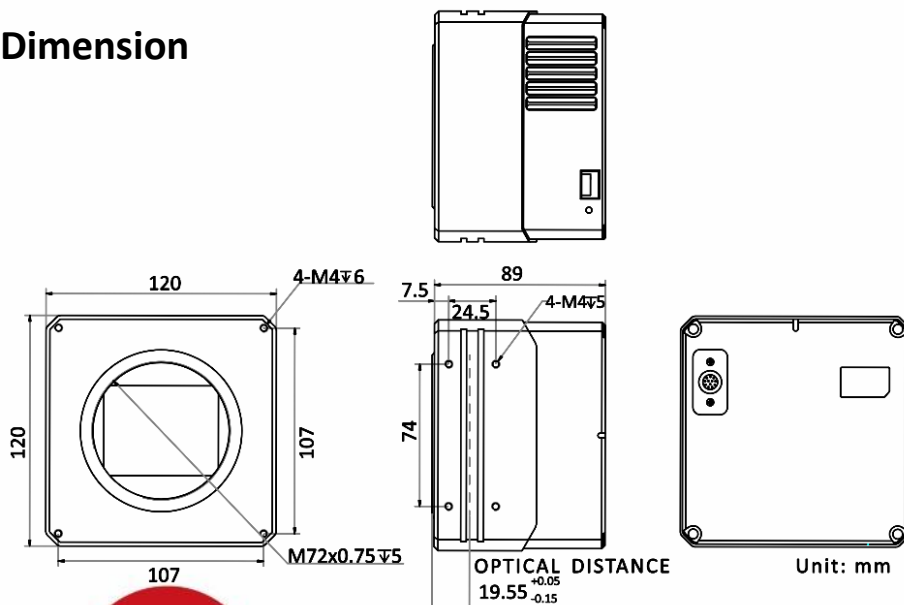
Introduction

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.

Dimension



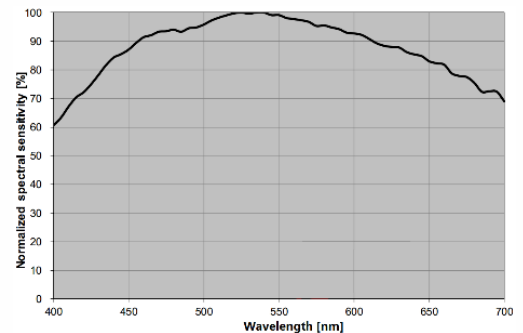
Available Model

MV-CH1510-10FM-M72-TF

Applicable Industry

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

Sensor Quantum Efficiency



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, FCC, RoHS, KC

HIKROBOT

Hangzhou Hikrobot Technology Co., Ltd.
No.399 Danfeng Road, Binjiang District, Hangzhou 310051, China.
en.hikrobotics.com

MaxxVision®

Sigmaringer Str. 121
70567 Stuttgart
Tel.: 0711 997 996 3
www.maxxvision.com

Copyright Hikrobot

Hangzhou Hikrobot Technology Co., Ltd. All Rights Reserved. Hangzhou Hikrobot Technology does not tolerate any infringement. Any organization or individual may not imitate or reproduce in whole or in part of the content. The data herein is based on Hikrobot's internal evaluation. Actual data may vary depending on specific configuration and operating condition. The information herein is subject to change without notice. All the content has been checked conscientiously. Nevertheless, Hikrobot shall not be liable to damages resulting from errors, inconsistencies or omissions.