

# HC-CH1510-10FM

151 MP CMOS 10 GigE Area Scan Camera



GEN< i >CAM

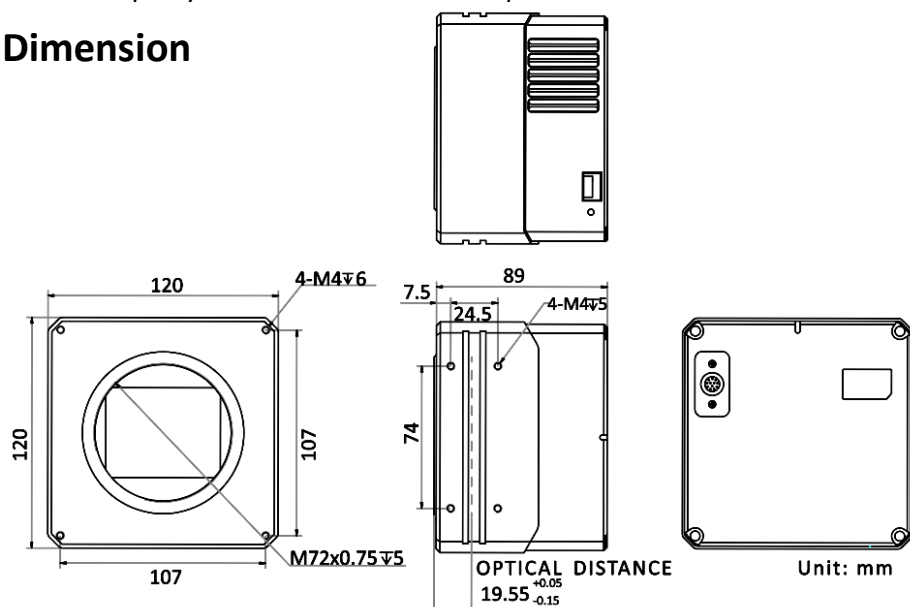
## Introduction

HC-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, GenlCam Standard, and third-party software based on the protocol and standard.

## Dimension



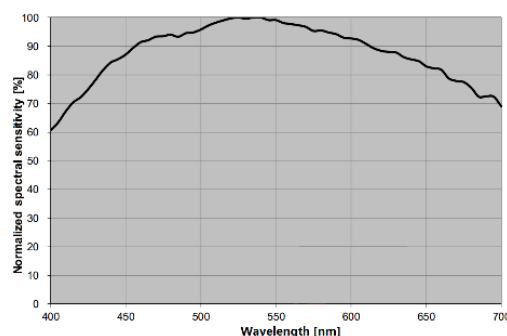
## Available Model

HC-CH1510-10FM-M72-TF

## Applicable Industry

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

## Sensor Quantum Efficiency



## Specification

<b>Model</b>	<b>HC-CH1510-10FM</b>
<b>Camera</b>	
<b>Sensor type</b>	CMOS, rolling shutter
<b>Sensor model</b>	Sony® IMX411
<b>Pixel size</b>	3.76 μm × 3.76 μm
<b>Sensor size</b>	66.7 mm
<b>Resolution</b>	14208 × 10640
<b>Max. frame rate</b>	6.2 fps @14208 × 10640
<b>Dynamic range</b>	78.7 dB
<b>SNR</b>	45 dB
<b>Gain</b>	0 dB to 36 dB
<b>Exposure time</b>	30 μs to 10 sec
<b>Exposure mode</b>	Off/Once/Continuous exposure mode, supports Global Reset and Rolling mode
<b>Mono/Color</b>	Mono
<b>Pixel format</b>	Mono 8/10/10p/12/12p/16
<b>Binning</b>	Supports 1 × 1, 1 × 2, 1 × 4, 2 × 1, 2 × 2, 2 × 4, 4 × 1, 4 × 2, 4 × 4
<b>Decimation</b>	Supports 1 × 1, 1 × 2, 1 × 4, 2 × 1, 2 × 2, 2 × 4, 4 × 1, 4 × 2, 4 × 4
<b>Reverse image</b>	Supports horizontal reverse image output
<b>Electrical feature</b>	
<b>Data interface</b>	10 Gigabit Ethernet
<b>Digital I/O</b>	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
<b>Power supply</b>	24 VDC
<b>Power consumption</b>	Typ. 11.3 W@24 VDC (non-TEC mode) Typ. 49 W@24 VDC (TEC mode)
<b>Mechanical</b>	
<b>Lens mount</b>	M72*0.75, optical back focal length 19.55 mm (0.8")
<b>Dimension</b>	120 mm × 120 mm × 89 mm (4.7" × 4.7" × 3.5")
<b>Weight</b>	Approx. 2.5 kg (5.5 lb.)
<b>Ingress protection</b>	IP40 (under proper lens installation and wiring)
<b>Temperature</b>	Working temperature: 0 °C to 50 °C (32 °F to 122 °F) Storage temperature: -30 °C to 70 °C (-22 °F to 158 °F)
<b>Humidity</b>	20% to 95% RH, non-condensing
<b>General</b>	
<b>Client software</b>	MVS or third-party software meeting with GigE Vision Protocol
<b>Operating system</b>	32/64-bit Windows XP/7/10
<b>Compatibility</b>	GigE Vision V2.0, GenICam
<b>Certification</b>	CE, FCC, RoHS, KC