VC-151MX-M/C 6H00-PLUS

Ultra High Resolution CMOS Digital Camera

The VC-151MX-M/C 6H00-PLUS, the latest models of the industrial proven VC series, is a new 151 megapixel CoaXPress camera and based on the latest CMOS image sensor technology (IMX411) from Sony Semiconductor Solutions Corporation. The VC-151MX-M/C 6H00-PLUS offers up to 6.2 frames per second at 14192 × 10640 resolution. Equipped with the Vieworks' innovative technologies proved by world's top FPD manufacturers, the VC-151MX-M/C 6H00-PLUS camera offers not only highly uniformed images but also high speed image processing capabilities. Featured with high quality image uniformity and high resolution, this camera is ideal for demanding applications such as FPD, PCB and semiconductor inspections.
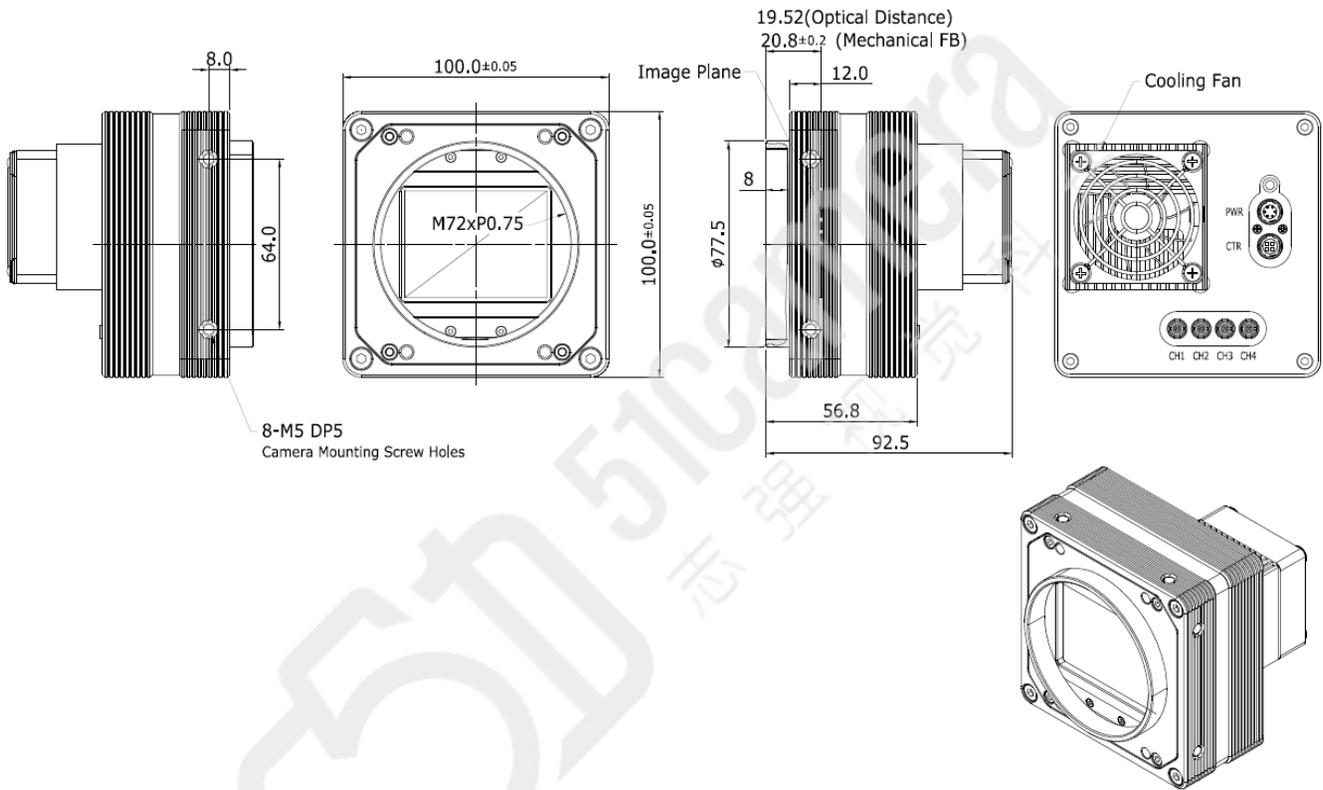
VC-151MX-M/C6H00-PLUS

Ultra High Resolution CMOS Digital Camera

Mechanical Dimensions

Unit: ㎜

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VC-151MX-M/C6H00-PLUS

Ultra High Resolution CMOS Digital Camera

Main Features

- 151-Megapixel Resolution
- CoaXPress Interface up to 6.2 fps at 50 Gbps using 4 Channels
- Electronic Rolling Shutter
- DSNU and PRNU Correction
- Pixel by Pixel Flat Field Correction
- Defective Pixel Correction

Applications

- Flat Panel Display Inspection
- PCB Inspection
- Electronics Inspection
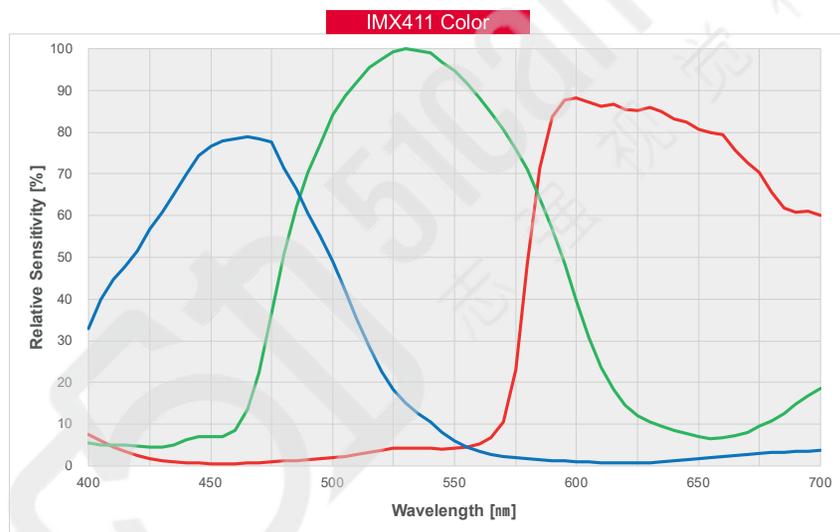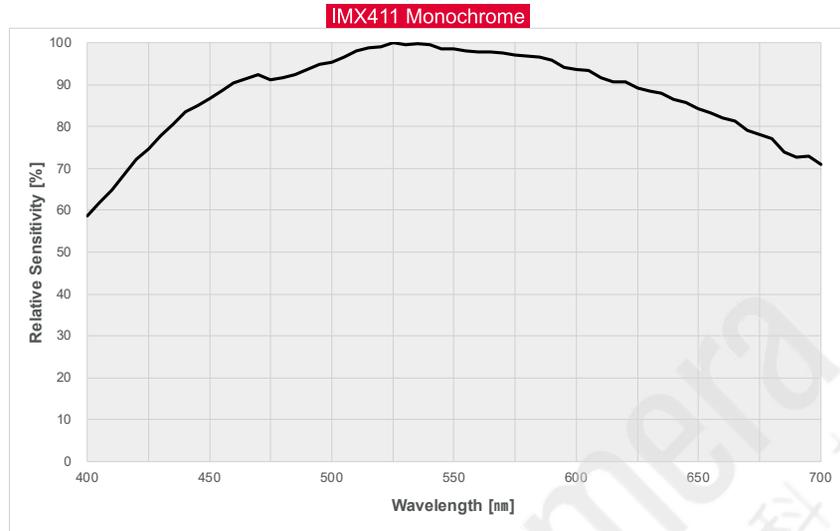- Semiconductor Inspection

Specifications

Model		VC-151MX-M/C 6H00-PLUS
Resolution (H × V)		14192 × 10640
Sensor		SONY IMX411
Sensor Size (Diagonal)		53.36 mm × 40.01 mm (66.7 mm)
Pixel Size		3.76 μm × 3.76 μm
Interface		CoaXPress (CXP-3 / CXP-6)
Max. Frame Rate		6.2 fps (with Overlapped Acquisition)
Exposure Time (1 μs step)		1 μs – 60 s
Binning	Sensor	×1, ×3 (Horizontal and Vertical Dependent)
	Logic	×1, ×2, ×4 (Horizontal and Vertical Independent)
Pixel Data Format		8 / 10 / 12 / 14 / 16 bit
Electronic Shutter		Rolling Shutter
Trigger Synchronization	Overlapped Acquisition	Free-Run
	Non-overlapped Acquisition	Hardware Trigger, Software Trigger or CXP
Dynamic Range		78 dB
Gain Control		1× ~ 32×
Black Level Control		0 ~ 4095 LSB at 16 bit
Dimension / Weight		100 mm × 100 mm × 92.5 mm, 1.07kg (with M-72 mount)
Temperature		Operating: 0℃ ~ 40℃, Storage: -40℃ ~ 70℃
Software Trigger		Asynchronous, Programmable via Camera API
Lens Mount		M72-mount, Custom mount available upon request
Power	Adapter	11 ~ 24 V DC
	PoCXP	24V DC, Minimum of two PoCXP cables required
Compliance		CE, FCC, KC
API SDK		Vieworks Imaging Solution 7.X

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Relative Sensitivity Curves

IMX411 Monochrome

IMX411 Color

Ordering Scheme

VC – 151M X – M 6 H PLUS

Series
VC Series

Sensor Resolution
151M
151 Megapixels

Interface
X – CoaXPress

Sensor Options
H – Sony CMOS (IMX)
PLUS – Advanced Features

Frame Rate
6 – 6.2 fps

Mono / Color
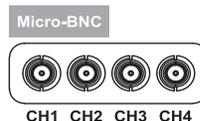M – Monochrome
C – Color
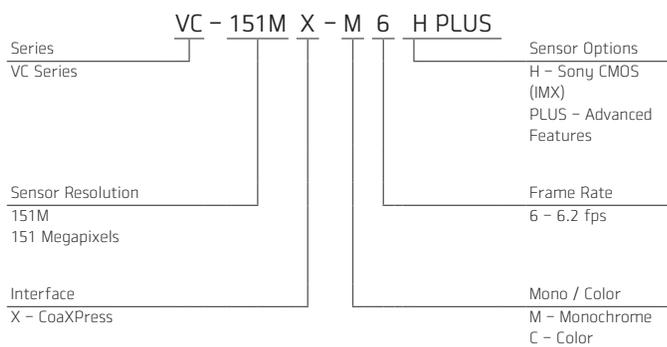
Connector Specification

Power

1, 2, 3: +12V DC
4, 5, 6: GND
(HR10A-7R-6PB)

Control

1: Trigger IN+
2: Trigger IN–
3: Strobe Out–(GND)
4: Strobe OUT+
(HR10A-7R-4S)

Data Transfer / Communications

Micro-BNC

CH1 CH2 CH3 CH4

CH1: Master Connection
75 Ω , Micro-BNC (HD-BNC)

Connectors on camera body