

Preliminary

VCS-151MX2-M/C 6H00-PLUS



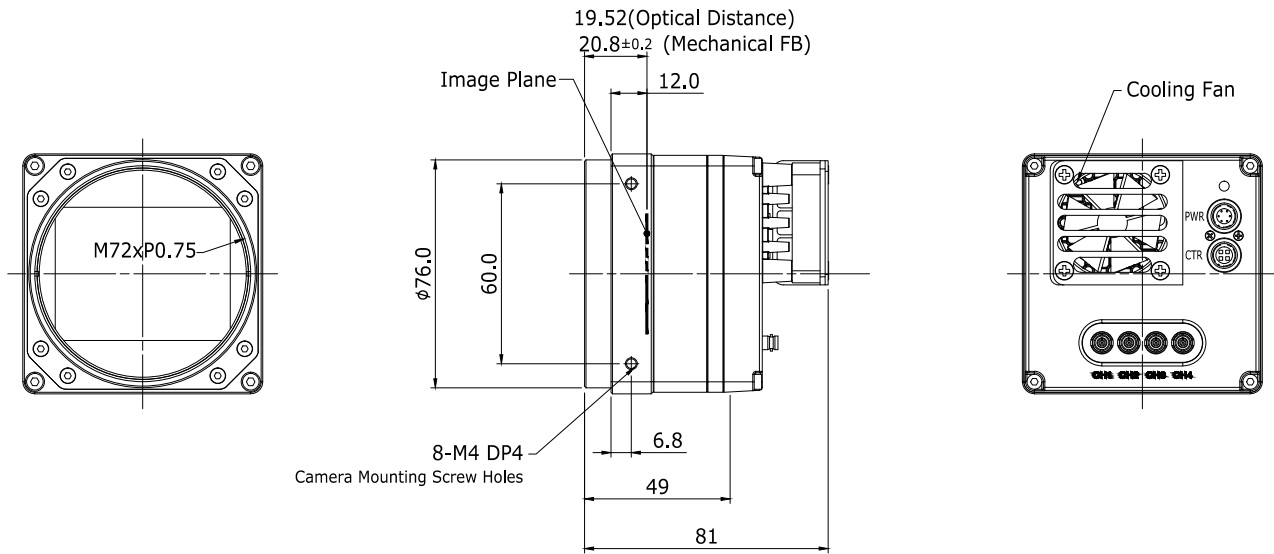
The VCS-151MX2-M/C 6H00-PLUS is a new 151-megapixel CoaxPress camera based on IMX411, the latest CMOS image sensor technology, from Sony. It offers up to 6.2 frames per second at 14,192 × 10,640 resolution. The camera comes with the next generation CoaxPress 2.0 (CXP-12) interface, delivering up to 50 Gigabits per second over 4 coaxial cables. With advanced uniformity and high-speed image processing capabilities, it sets a new standard for high-performance digital imaging in industrial, scientific, and surveillance fields. This camera is ideal for demanding applications such as FPD, PCB, and semiconductor inspections.

VCS-151MX2-M/C6H00-PLUS

Ultra High Resolution CMOS Digital Camera

Mechanical Dimensions

Unit: mm



VCS-151MX2-M/C6H00-PLUS

Ultra High Resolution CMOS Digital Camera

Main Features

- High Speed 151-Megapixel CMOS Image Sensor
- CoaXPress 2.0 Interface up to 6.2 fps at 50 Gbps using 4 Channels
- Electronic Rolling Shutter
- Power over CoaXPress (PoCXP)
- Pixel by Pixel Flat Field Correction
- Defective Pixel Correction
- GenICam Compatible – XML based Control

Applications

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

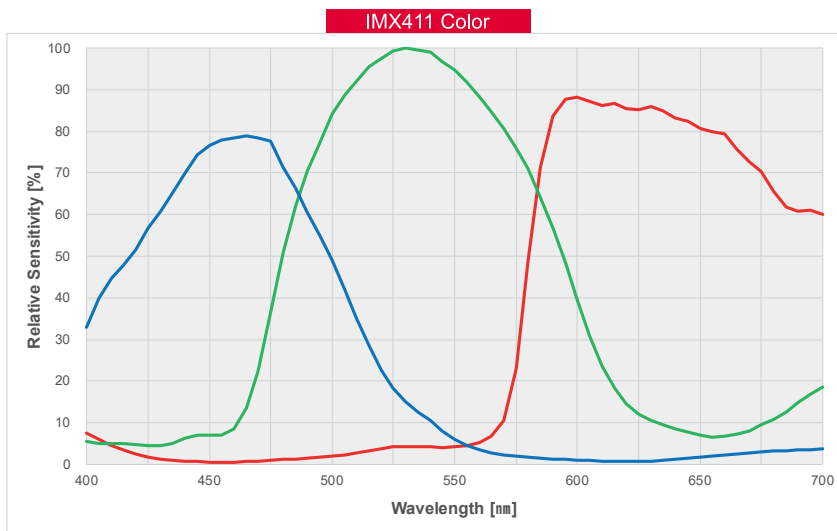
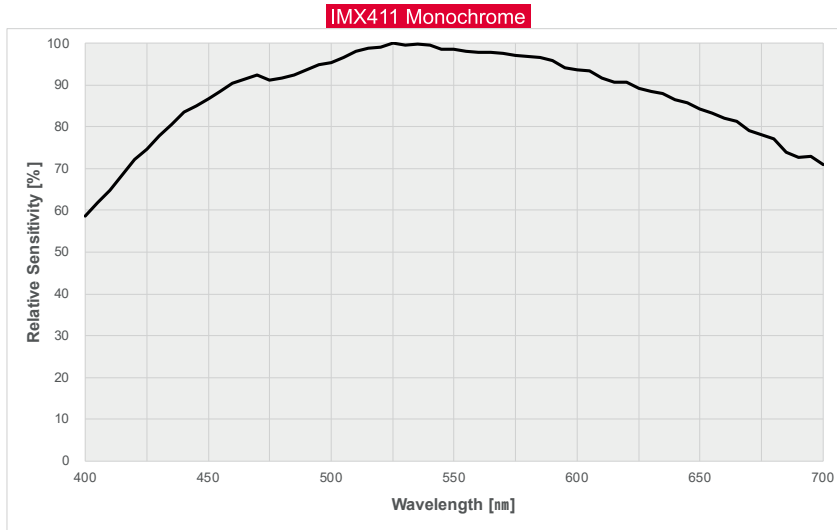
Specifications

Model	VCS-151MX2-M/C 6H00-PLUS	
Resolution (H × V)	14,192 × 10,640	
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 2.0 (CXP-3 / CXP-5 / CXP-6 / CXP-10 / CXP-12)	
Max. Frame Rate	6.2 fps @ 12 bit	
Exposure Time (1 μs step)	283 μs to 59,652,296 μs	
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× to 32×	
Black Level Control	0 to 4095 LSB at 16 bit	
Dimension / Weight	80 mm × 80 mm × 81 mm / 520 g (with M-72 mount)	
Temperature	Operating: 0°C to 40°C, Storage: -40°C to 70°C	
Software Trigger	Asynchronous, Programmable via Camera API	
Lens Mount	M72-mount, Custom mount available upon request	
Power	Adapter	11 to 24 V DC
	PoCXP	24V DC, Minimum of two PoCXP cables required
	Dissipation	Typ. 16W
Compliance	CE, FCC, KC	

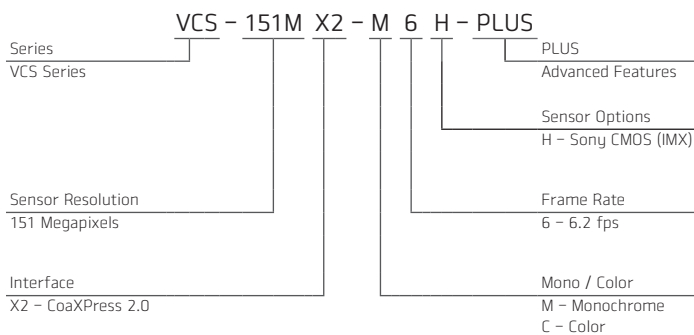
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Ultra High Resolution CMOS Digital Camera

Relative Sensitivity Curves



Ordering Scheme



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

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

Connectors on camera body