

MV-CH1520-90YM 152 MP CoaXPress Area Scan Camera

MV-CH1520-90YM camera adopts Gpixel GMAX32152 sensor to provide high quality image. It uses 4-link CXP-12 interface to transmit non-compressed images in real time, and its max. frame rate can reach 16.3 fps.



GEN<I>CAM

Key Features

- Resolution of 16544 × 9200, pixel size of 3.2 μm × 3.2 μm.
- Adopts global shutter CMOS sensor to provide high dynamic range, SNR, and high-quality image.
- Supports the flat field correction.
- Supports TEC mode to ensure image quality under long exposure.
- Adopts 4-link CXP-12 interface to transmit data.
- Compatible with CoaXPress Protocol, GenICam Standard, and third-party software based on the protocol and standard.

Typical Application

- PCB AOI
- FPD
- Aerial photography
- File scanning



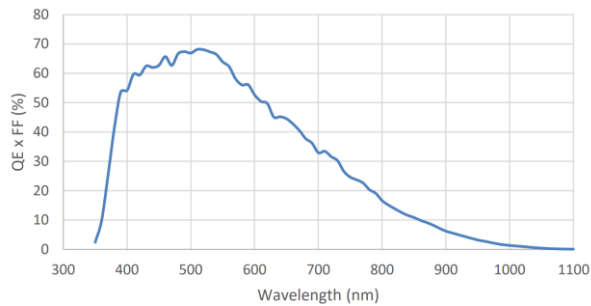
Specification

Model	MV-CH1520-90YM
Performance	
Sensor type	CMOS, global shutter
Sensor model	Gpixel GMAX32152
Pixel size	3.2 μm $\times$ 3.2 μm
Sensor size	53 mm $\times$ 29.4 mm
Resolution	16544 $\times$ 9200
Max. frame rate	16.3 fps @ 16544 $\times$ 9200 Mono 8
Dynamic range	65.3 dB
SNR	40 dB
Gain	1.4x to 5.2x
Exposure time	20 μs to 10 sec
Exposure mode	Off/Once/Continuous exposure mode
Mono/color	Mono
Pixel format	Mono 8/10/12
Binning	Supports 1 $\times$ 1, 1 $\times$ 2, 1 $\times$ 4, 2 $\times$ 1, 2 $\times$ 2, 2 $\times$ 4, 4 $\times$ 1, 4 $\times$ 2, 4 $\times$ 4
Decimation	Supports 1 $\times$ 1, 1 $\times$ 2, 1 $\times$ 4, 2 $\times$ 1, 2 $\times$ 2, 2 $\times$ 4, 4 $\times$ 1, 4 $\times$ 2, 4 $\times$ 4
Reverse image	Supports horizontal and vertical reverse image output
Electrical feature	
Data interface	CoaXPress with Micro-BNC interface
Digital I/O	12-pin P10 connector provides power and I/O, including opto-isolated input $\times$ 1 (Line 0), opto-isolated output $\times$ 1 (Line 1), bi-directional non-isolated I/O $\times$ 1 (Line 2), and RS-232 $\times$ 1.
Power supply	24 VDC
Power consumption	Non-cooling: Typ. 17.7 W @ 24 VDC Cooling: Typ. 31.7 W @ 24 VDC
Mechanical	
Lens mount	M72*0.75, flange back length 19.55 mm
Dimension	100 mm $\times$ 100 mm $\times$ 86 mm (3.9" $\times$ 3.9" $\times$ 3.4")
Weight	Approx. 1.2 kg (2.6 lb.)
Ingress protection	IP40 (under proper lens installation and wiring)
Temperature	Working temperature: 0 $^{\circ}\text{C}$ to 50 $^{\circ}\text{C}$ (32 $^{\circ}\text{F}$ to 122 $^{\circ}\text{F}$) Storage temperature: -30 $^{\circ}\text{C}$ to 80 $^{\circ}\text{C}$ (-22 $^{\circ}\text{F}$ to 176 $^{\circ}\text{F}$)
Humidity	20% RH to 95% RH (no condensation)
General	
Client software	MVS or frame grabber software meeting with CoaXPress Protocol
Operating system	32/64-bit Windows 7/10, 64-bit Windows 11, 32/64-bit Linux (8 GB memory or above)
Compatibility	CoaXPress, GenICam
Certification	CE, RoHS, KC

Available Model

MV-CH1520-90YM-M72-TF

Sensor Quantum Efficiency



Dimension

