

MV-CL08K7-148TM**8192 P 10 GigE Line Scan Camera**

MV-CL08K7-148TM camera adopts CMOS sensor to provide high-quality image, and uses 10 GigE interface to transmit images in real time. It adopts multiple ISP image algorithms and functions, and supports external trigger modes like line trigger, frame trigger, and line + frame trigger.

**GEN*<i>i>*CAM** **10GiGE**
VISION**Key Features**

- Supports max. line rate of 148 kHz in standard mode and uses 10 GigE interface to transmit images.
- Supports HB/JPEG image compression to improve the line rate up to 239 kHz.
- Supports ISP image functions and manual adjustment of Gamma correction, FFC, LUT, black level, etc.
- Adopts bi-directional I/O hardware design.
- Compact design and flexible installation.
- Compatible with GigE Vision V2.0 and GenICam standard.

Typical Application

- New energy
- Consumer electronics
- Medical material
- Textiles
- Railway
- Material sorting



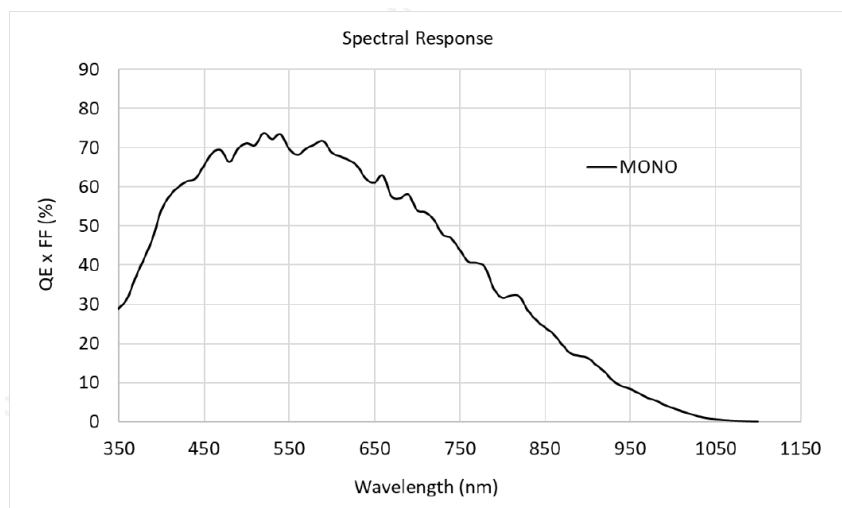
Specification

Model	MV-CL08K7-148TM
Performance	
Sensor type	CMOS
Pixel size	7 μm $\times$ 7 μm
Resolution	8192 $\times$ 1
Image mode	Supports 1-Line
Max. line rate	Standard mode: 148 kHz @ Mono 8, 74 kHz @ Mono 10/Mono 12 Line rate after ROI or Binning: 239 kHz (8192 P and below) HB/JPEG image compression: 239 kHz
Dynamic range	64.9 dB
SNR	41.4 dB
Gain	Supports 1.0 $\times$, 2.0 $\times$, 3.0 $\times$, 4.0 $\times$
Exposure time	2 μs to 10 ms
Exposure mode	Off/Once/Continuous exposure mode, and supports Trigger Width
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
Reverse image	Supports horizontal reverse image output
Trigger mode	External trigger, internal trigger
External trigger mode	Line trigger, frame trigger, line + frame trigger
Electrical feature	
Data interface	10 Gigabit Ethernet (10000 Mbit/s), compatible with Gigabit Ethernet (1000 Mbit/s)
Digital I/O	12-pin P10 connector provides power and I/O: bi-directional configurable I/O $\times$ 4 (Line 0/1/3/4) and support single-ended/differential I/O signal.
Power supply	12 VDC to 24 VDC
Power consumption	Typ. 9.1 W @ 12 VDC
Mechanical	
Lens mount	M72 *0.75, flange focal length 12 mm, connecting to F-mount, C-mount, and other lenses via adapter ring
Dimension	76 mm $\times$ 76 mm $\times$ 49.5 mm (3.0" $\times$ 3.0" $\times$ 1.9")
Weight	Approx. 400 g (0.9 lb.)
Ingress protection	IP40 (under proper lens installation and wiring)
Temperature	Working temperature: -20 $^{\circ}\text{C}$ to 55 $^{\circ}\text{C}$ (-4 $^{\circ}\text{F}$ to 131 $^{\circ}\text{F}$) Storage temperature: -30 $^{\circ}\text{C}$ to 80 $^{\circ}\text{C}$ (-22 $^{\circ}\text{F}$ to 176 $^{\circ}\text{F}$)
Humidity	5% RH to 90% RH (no condensation)
General	
Client software	MVS or the third-party software meeting with GigE Vision protocol
Operating system	32/64-bit Windows 7/10, 64-bit Windows 11, 32/64-bit Linux
Compatibility	GigE Vision V2.0, GenICam
Certification	CE, RoHS, KC

Available Model

MV-CL08K7-148TM

Sensor Quantum Efficiency



Dimension

