

MV-CH500-61CM

50 MP CCD Camera Link Area Scan Camera



GEN*<i>i</i>*CAM



Introduction

MV-CH500-61CM camera adopts OnSemi KAI-50140 sensor to provide high-quality image. It uses Camera Link interface to transmit non-compressed images in real time with max. frame rate reaching 4 fps. The camera adopts TEC to keep the camera's sensor temperature around environment temperature.

Key Feature

- Resolution of 10440×4800 and pixel size of $4.5 \mu\text{m} \times 4.5 \mu\text{m}$.
- Adopts global shutter CCD sensor providing wide dynamic range and high-quality image.
- Supports configuration modes of Base and Medium via the Camera Link interface.
- Adopts compact design with mounting holes for flexible mounting.

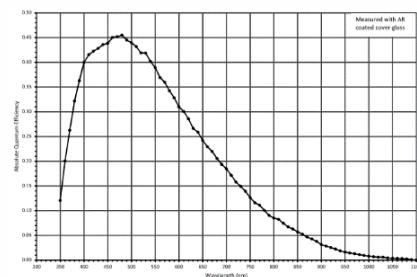
Available Model

MV-CH500-61CM-M58S-TF

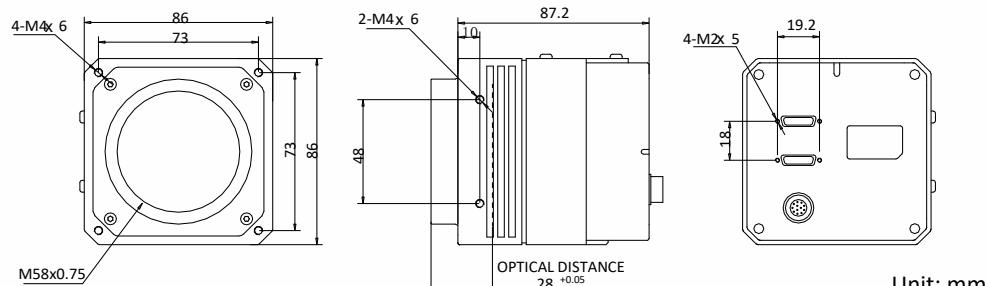
Applicable Industry

FPD, electronics and semiconductor inspection, research and scientific imaging, microscopy and metrology, etc.

Sensor Quantum Efficiency



Dimension



Unit: mm



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Specification

Model	MV-CH500-61CM
Camera	
Sensor type	CCD, global shutter
Sensor model	OnSemi KAI-50140
Pixel size	4.5 μ m \times 4.5 μ m
Sensor size	46.98 mm \times 21.6 mm
Resolution	10440 \times 4800
Configuration mode	Base, Medium
Tap geometry	1X_2YE, 1X2_2YE
Tap number	2 Taps, 4 Taps
Max. frame rate	4 fps @10440 \times 4800
Pixel clock	85 MHz
Dynamic range	60 dB
SNR	40 dB
Gain	0 dB to 20 dB
Exposure time	102 μ s to 10 sec
Mono/color	Mono
Pixel format	Mono 8/10/12
Exposure mode	Off/Once/Continuous exposure mode
Binning	Not support
Decimation	Not support
Reverse image	Supports horizontal reverse image output
Electrical feature	
Data interface	Camera Link with SDR interface
Digital I/O	12-pin Hirose 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), RS-232 \times 1
Power supply	22 VDC to 26 VDC
Power consumption	Typ. 18 W@24 VDC (non-TEC cooling mode) Typ. 70 W@24 VDC (TEC cooling mode)
Mechanical	
Lens mount	M58*0.75, optical back focal length 28 mm (1.1")
Dimension	86 mm \times 86 mm \times 87.2 mm (3.4" \times 3.4" \times 3.4")
Weight	Approx. 1300 g (2.9 lb.)
Ingress protection	IP40 (under proper lens installation and wiring)
Temperature	Working temperature: 0 $^{\circ}$ C to 50 $^{\circ}$ C (32 $^{\circ}$ F to 122 $^{\circ}$ F) Storage temperature: -30 $^{\circ}$ C to 70 $^{\circ}$ C (-22 $^{\circ}$ F to 158 $^{\circ}$ F)
Humidity	20% to 95% RH, non-condensing
General	
Client software	MVS or frame grabber software meeting with GenICam Protocol
Operating system	32/64-bit Windows XP/7/10
Compatibility	Camera Link Vision, GenICam
Certification	CE, FCC, RoHS, KC



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