

10 GigE line scan camera, general series (MV-L / MV-LC ...-10G)

LS-MV-L-10G series · Line scan cameras · 9 models

10GigE 8K line scan industrial cameras launched to meet the demand for higher resolution and line rate in high-speed, high-precision visual inspection. Widely used in printing, textile, railway, logistics, metallurgy, food, pharmaceutical and material sorting.

Features

- Flat field correction supported
- Multi-exposure automatic switching function
- Gain and Offset programmable settings
- Reserved fan connector to control camera temperature
- Cost significantly reduced compared with a CameraLink interface plus frame grabber
- Standard 10 Gigabit network interface; stable communication over Cat6 (super six) network cable
- Transmission distance up to 100 meters, backward compatible with Gigabit networks
- Effective bandwidth 1200MByte, 10 times Gigabit network, greatly shortening image transmission time and latency
- Supports GigE Vision and GenICam, same SDK as Gigabit Ethernet cameras



Applications

- Printing
- Textile
- Railway
- Logistics
- Metallurgy
- Food
- Pharmaceutical
- Material sorting

Common specifications

Programming language pack	C/C++/C#/VB6/VB.NET/Delphi/BCB/Python/Java
Operating system	WIINXP, WIN7/8/10 32@64 bit system, Linux and ARM Linux driver, Android platform driver, MAC OS system
Driver	Directshow component Halcon special component Labview special driver OCX component TWAIN component
Other functions	Support any size ROI custom resolution, contrast and gamma adjustment, saturation adjustment, white balance correction, black level correction, custom dead point coordinate correction, ISP image processing acceleration, 3D noise reduction, custom LUT table, frame rate adjustment, custom camera name, etc.
Adwidth	12bit (refers to the width supported by sensor)
Data bit width	10bit (width of data output by camera to user)
Transmission mode	GigE Vision V1.2, GenICam
Transmission interface	10 Gigabit network port (10 gigabit copper cable 10GBase-T, compatible with 100M/1G/2.5G/5G)
Working temperature	0~50°C
Working humidity	20~80% (without condensation)
Storage temperature	30~60°C
Storage humidity	20~95% (without condensation)
Power supply	12V±10% (MV-L083/L163/L164); 12V~24V (±10%) (MV-LC83)

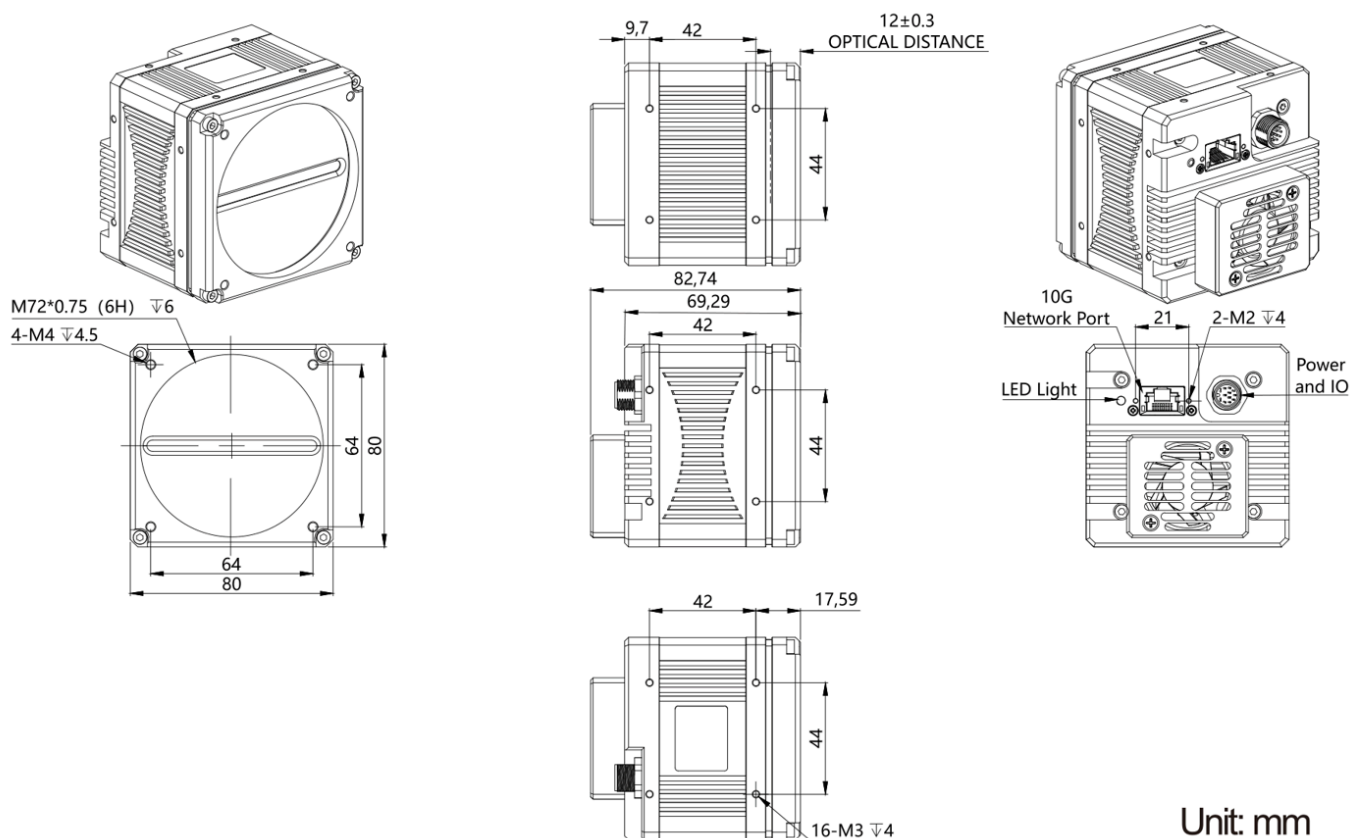
Filter	Black and white cameras: double-sided AR antireflection film as standard; color cameras: 650nm infrared cut filter as standard
Data interface	10G copper cable 10GBase-T, compatible with 100M/1G/2.5G/5G

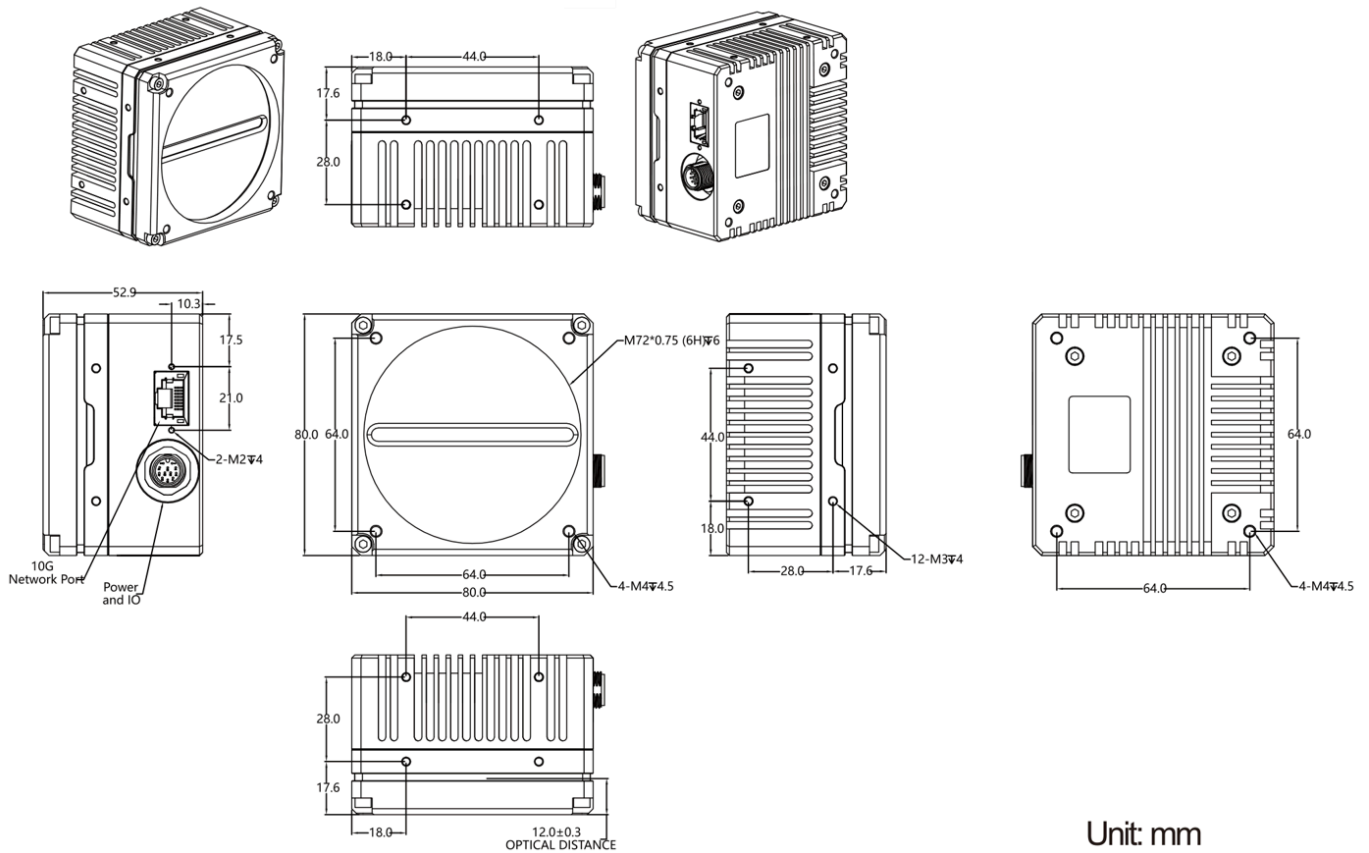
Models

Model	Effective pixel	Pixel size	Line frequency	Target size	TDI	Color	Mono / colour
LS-MV-L083C-10G	8192×3(RGB)	7μm	50KHz	57.344mm	/	Color	Color
LS-MV-L083M-10G	8192×2	7μm	106KHz	57.344mm	2	Mono	Mono
LS-MV-L163C-10G	16384×2(Bayer)	3.5μm	72KHz	57.344mm	/	Color	Color
LS-MV-L163M-10G	16384×2	3.5μm	72KHz	57.344mm	2	Mono	Mono
LS-MV-LC83C-10G	8192×3(RGB)	7μm	50KHz	57.344mm	/	Color	Color
LS-MV-LC83M-10G	8192×2	7μm	105KHz	57.344mm	2	Mono	Mono
LS-MV-LC83BM-10G	8192×4	7μm	109.89KHz	57.344mm	4	Mono	Mono
LS-MV-L164C-10G	16384×6	5μm	25KHz	81.92mm	2	Color	Color
LS-MV-L164M-10G	16384 ×1	5μm	75KHz	81.92mm	/	Mono	Mono

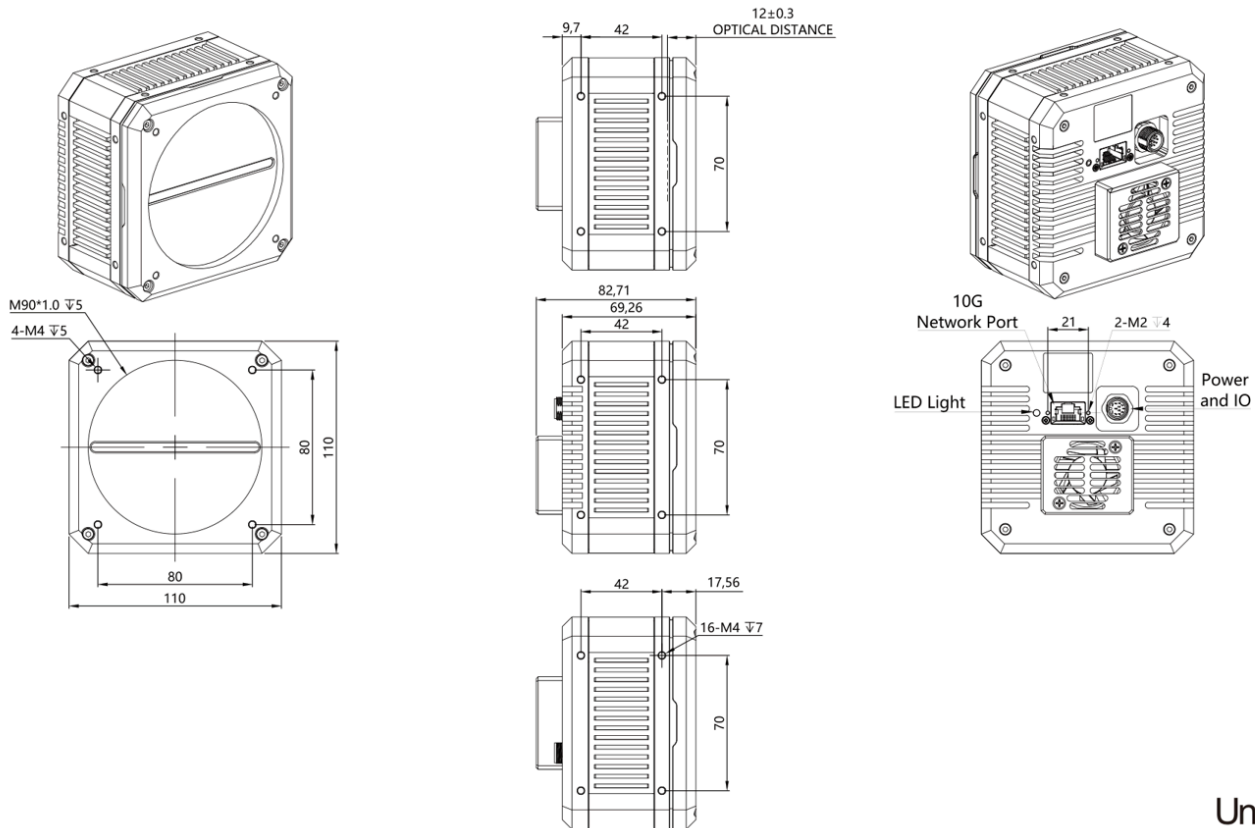
More values per model (Sensor type, Shutter mode, Minimum exposure, Color specification, Data format, Line frequency (detail), Resolution ratio, Sensor size, TDI (detail), Lens interface, Exterior dimensions, Dynamic range...) are on each product page.

Dimensions





Unit: mm



Unit: mm