

GigE area scan camera, GE series with CMOS sensor

LS-MV-GE series · Area scan cameras · 29 models



This series of cameras is compatible with the GigE Vision and GenICam standards, with colour and monochrome CMOS and CCD sensors with global or rolling shutter, from 0.3MP to 65MP. It is fully compatible with LabVIEW, Halcon, VisionPro and other mainstream vision software.

Features

- Unique packet retransmission technology to ensure reliable data transmission
- Built-in hardware accelerates image processing and reduces CPU utilization on the host side
- Supports simultaneous operation of multiple cameras, unlimited number, and arbitrary networking
- Pixels from 0.3MP to 65MP, CCD and CMOS are optional
- Excellent SDK design, as simple as using a USB camera, plug and play
- Supports external trigger and flash synchronization, up to seven channels of GPIO, all photoelectric isolation
- Compatible with the vision standard, driver free and directly supports Halcon, VisionPro and other software
- Gigabit network interface, 100 m long-distance stable transmission, supporting PoE power supply (optional)

Applications

- Electronic semiconductors
- Factory automation
- Food and beverage
- Pharmaceutical packaging
- Image measurement

Common specifications

Interface	GigE (RJ45 Gigabit Ethernet)
Acquisition mode	Continuous/soft trigger/hard trigger
User-defined data area	2K Bytes
Vision standard	GigE Vision V1.2, GenIcam
Data interface	RJ45 Gigabit Ethernet interface, backward compatible with 100M network standard
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
Programming language pack	C/C++/C#/VB6/VB.NET/Delphi/BCB/Python/Java
Working temperature @humidity	0~50°C @ 20%~80% (no condensation)
Storage temperature @humidity	30~60°C @ 20%~95% (no condensation)
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.
Frame buffer	128M Bytes
GPIO	1 optical isolation input, 1 optical isolation output; optional 3 inputs and 4 outputs
Power supply	12~24V/POE, 48~57V (POE is optional)
Power	<2.5W
Dimensions	29 x 29 x 40 mm (without lens mount and rear shell interface)
Suffix options	GE/F/D/C camera suffix selection (columns as printed: aviation-connector pin definition no., POE power supply, dual aviation-connector extended IO, shrapnel-type / threaded-type aviation connector, C-mount / CS-mount lens interface, state): -T-CL def.1 threaded, C-mount, Recommend; -T-L def.1 threaded, CS-mount, Book; -TPO-CL def.2 POE, dual extended IO, threaded, C-mount, Book; -T1-C def.3 shrapnel, C-mount, Recommend; -TIP-C def.3 POE, shrapnel, C-mount, Book; -T def.4 shrapnel, CS-mount, Planned shutdown; -TPO def.5 POE, dual extended IO, shrapnel, CS-mount, Planned shutdown; -TPO-C def.5 POE, dual extended IO, shrapnel, C-mount, Planned shutdown. ('Book' as printed, presumably made to order.)

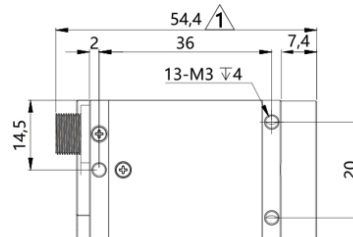
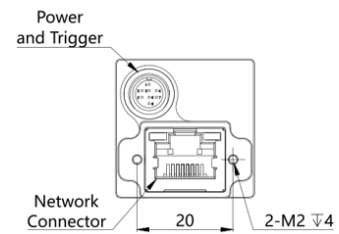
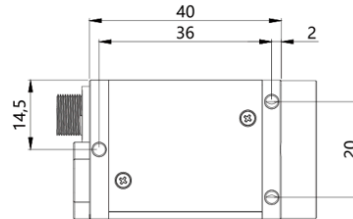
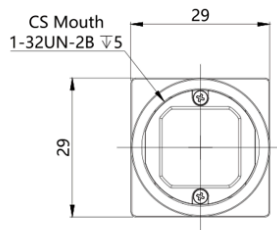
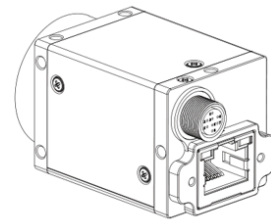
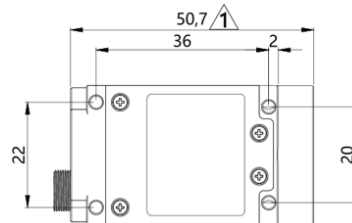
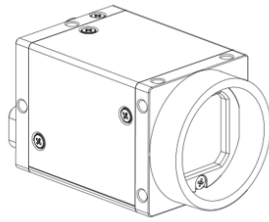
Models

Model	Effective pixels	Sensor type	Shutter method	Max resolution	Pixel size	Frame rate (FPS)	Mono / colour
LS-MV-33GC-GE/M	0.3MP	CMOS	Global	640 x 480	8.0µm	160	Color/Mono
LS-MV-31GC-GE/M	0.3MP	CMOS	Global	640 x 480	4.8µm	392.25	Color/Mono
LS-MV-40GC-GE/M	0.4MP	CMOS	Global	720 x 540	6.9µm	299	Color/Mono
LS-MV-130RM-GE	1.3MP	CMOS	Rolling	1280 x 1024	5.2µm	30	Mono
LS-MV-122GC-GE	1.2MP	CMOS	Global	1280 x 960	3.75µm	72.25	Color
LS-MV-123GM-GE	1.2MP	CMOS	Global	1280 x 960	3.75µm	60.75	Mono
LS-MV-130RC-GE	1.2MP	CMOS	Rolling	1280 x 960	3.75µm	60.5	Color
LS-MV-133GC-GE/M	1.3MP	CMOS	Global	1280 x 1024	4µm	91	Color/Mono
LS-MV-134GC-GE/M	1.3MP	CMOS	Global	1280 x 1024	4.8µm	91.5	Color/Mono
LS-MV-200RC-GE	2MP	CMOS	Rolling	1920 x 1080	2.9µm	30	Color
LS-MV-200GC-GE/M	2MP	CMOS	Global	1600 x 1200	4.5µm	60	Color/Mono
LS-MV-230GC-GE/M	2MP	CMOS	Global	1920 x 1200	4.8µm	51	Color/Mono
LS-MV-203GC-GE	2MP	CMOS	Global	1600 x 1200	4.5µm	61	Color
LS-MV-231GC-GE/M	2.3MP	CMOS	Global	1920 x 1200	5.86µm	40.25	Color/Mono
LS-MV-232GC-GE/M	2.3MP	CMOS	Global	1920 x 1200	3.0µm	52	Color/Mono
LS-MV-300GC-GE/M	3MP	CMOS	Global	2048 x 1536	3.45µm	38	Color/Mono

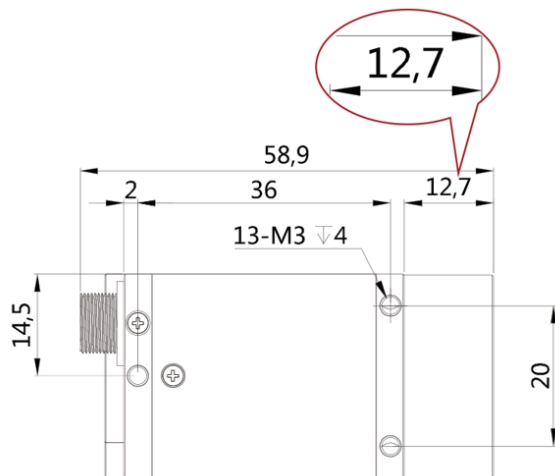
LS-MV-501GC-GE/M	5MP	CMOS	Global	2448 x 2048	3.45µm	24	Color/Mono
LS-MV-502RC-GE/M	5MP	Ar0522	Rolling	2592 x 1944	2.2µm	24	Color/Mono
LS-MV-502GC-GE/M	5MP	CMOS	Global	2592 x 2048	4.8µm	23	Color/Mono
LS-MV-505GC-GE/M	5MP	CMOS	Global	2592 x 2048	3.2µm	22	Color/Mono
LS-MV-508RC-GE	5MP	CMOS	Rolling	2744 x 1836	4.8µm	5	Mono
LS-MV-630RC-GE/M	6.3MP	CMOS	Rolling	3088 x 2064	2.4µm	18.75	Color/Mono
LS-MV-800RC-GE/M	8MP	CMOS	Rolling	3840 x 2160	2.0µm	14.25	Color/Mono
LS-MV-1000RC-GE/M	10MP	CMOS	Rolling	3664 x 2748	1.67µm	8	Color/Mono
LS-MV-1201RC-GE/M	12MP	CMOS	Rolling	4000 x 3000	1.85µm	9.75	Color/Mono
LS-MV-1202RC-GE/M	12MP	CMOS	Rolling	4000 x 3000	1.6µm	9.75	Color/Mono
LS-MV-1600RC-GE/M	16MP	CMOS	Rolling	4608 x 3546	1.34µm	7	Color/Mono
LS-MV-2000RC-GE/M	20MP	CMOS	Rolling	5488 x 3672	2.4µm	6	Color/Mono
LS-MV-202GC-GE/M	-	-	-	-	-	-	Color/Mono

More values per model (Target size, Min exposure, Sensor model, Color, Resolution@frame rate, Pixel size (technical table), Pixel bit depth, Sensitivity, Maximum gain (multiple), Exposure time range (ms), Video output format, Lens mount...) are on each product page.

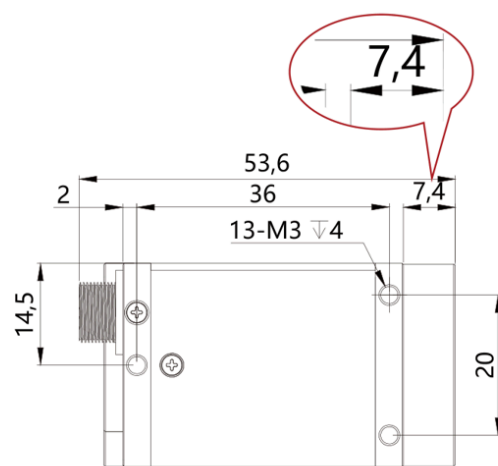
Dimensions



Unit: mm



C-mount lens



Unit: mm

CS-mount lens

