

Dual USB3.0 area scan camera (LS-MV-2SU-2500GM)

LS-MV-2SU series · Area scan cameras · 1 model



Supports two USB3.0 interfaces with up to 10Gbps transmission bandwidth; with a high-speed sensor the 25MP camera reaches up to 30FPS. Low CPU occupancy using DMA transmission.

Features

- Programmable IO
- Dual USB3.0 output, 2 times faster than the original
- External trigger strobe synchronous photography
- 8bit raw data output
- Fully compatible with the GigE camera SDK, seamless replacement
- Multiple cameras on one computer work stably without dropping or losing frames for a long time
- Supports PC Linux and ARM Linux, can be integrated into embedded devices
- Compatible with vision protocols: Halcon, VisionPro, LabVIEW and other vision software

Applications

- Electronic 3C
- Automated semiconductor
- Logistics code scanning
- Intelligent transport
- Biomedical
- Packaging and printing

Common specifications

Operating system	WIINXP, WIN7/8/10 32@64-bit system, Linux and ARM Linux driver (customizable), Android platform driver (customizable)
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
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.

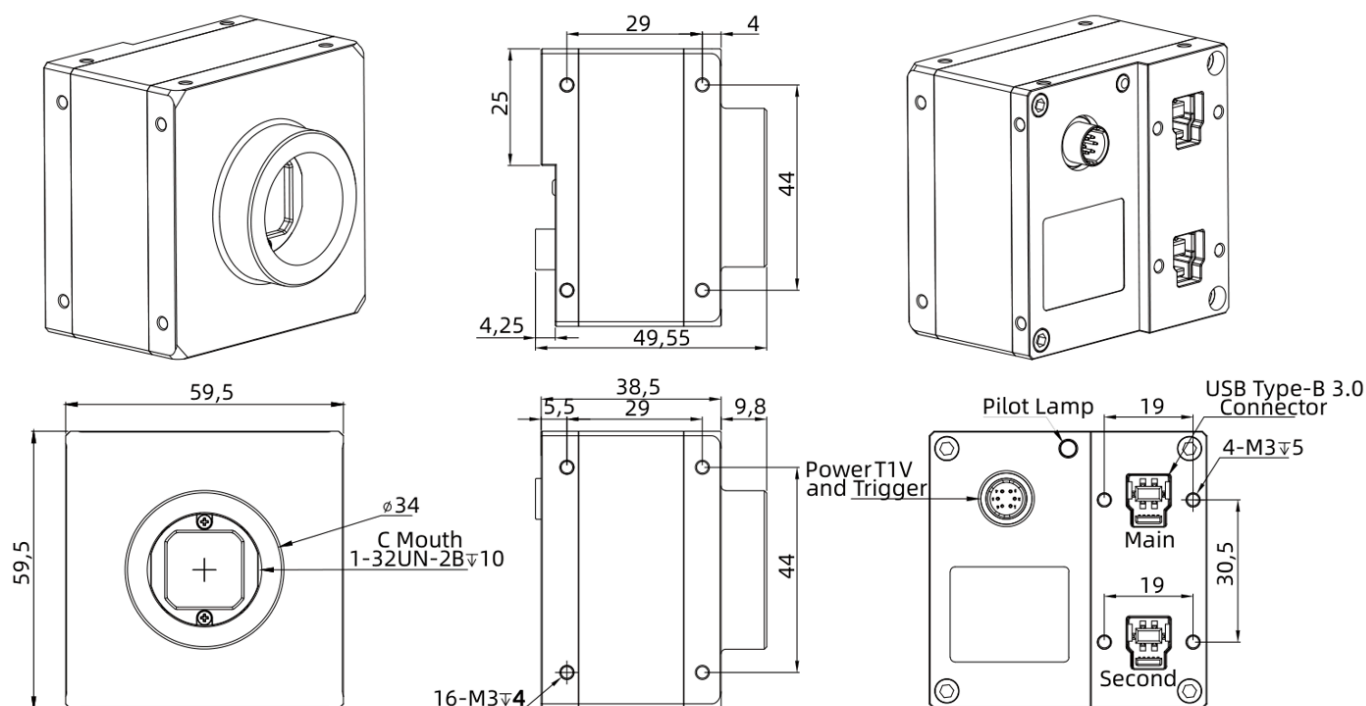
Tailpiece suffix options (AU/FU/CU/2SU)	TIV-C: line sequence definition 1, 12V power supply, power supply shrapnel type aircraft head, C-mount, Recommend; -T: line sequence definition 2, aircraft head, CS-mount, planned shutdown; -T-C: line sequence definition 2, aircraft head, C-mount, planned shutdown; -TV-C: line sequence definition 3, 12V power supply, aircraft head, C-mount, planned shutdown
Connector pinout - TIV-C (Port A)	1 Red PWR+ (camera power input positive); 2 White GPI1+/TRIG_IN+ (default trigger input); 3 Brown GPI2/GPO2 (non-isolated bidirectional IO); 4 Green GPO1+/STRB_OUT+ (default flash output); 5 Yellow GPO1-/STRB_OUT-/TRIG_IN- (GPIO common negative terminal); 6 Black PWRGND
Connector pinout - T, -T-C	1 Green GPO1+/STRB_OUT+ (default flash output); 2 Yellow GPO1-/STRB_OUT- (default flash output); 3 White GPI1+/TRIG_IN+ (default trigger input); 4 Brown GPI1-/TRIG_IN- (default trigger input); 5 Red GPO2+; 6 Black GPO2
Connector pinout - TV-C (Port A)	1 Green GPO1+/STRB_OUT+; 2 Yellow GPO1-/STRB_OUT; 3 White GPI1+/TRIG_IN+; 4 Brown GPI1-/TRIG_IN-; 5 Red PWR+; 6 Black PWRGND

Models

Model	Sensor	Sensor type	Camera type	Image size (pixel size)	Effective pixel	Resolution@frame rate	Sensitivity
LS-MV-2SU-2500GM colours: Mono	1.1"CMOS	GMAX0505	Mono	2.5µm×2.5µm	25MP	5120x5120Max@28.25FPS	1.03x10 ⁻⁷ e-/((W/m ²)·s) @500nm

More values per model (GPIO, Exposure method, Signal-to-noise ratio, Dynamic range, AD width, Output pixel width, Maximum gain (times), Exposure time range (ms), Frame buffer, User-defined data, Video output format, Visual standards protocol...) are on each product page.

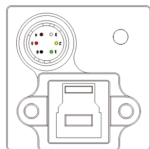
Dimensions



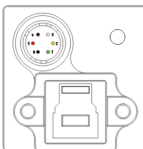
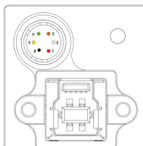
Performance

Pin Configuration

Function Suffix	Aircraft head line sequence Definition diagram	12V Power supply	Power supply shrapnel type Aircraft head	Lens interface C-mount	Lens interface C5-mount	State
-T1V-C	1	●	●	●		Recommend
-T	2		●		●	Planned shutdown
-T-C	2		●	●		Planned shutdown
-TV-C	3	●	●	●		Planned shutdown



Pin number	Line color	Signal name	Signal description	Remarks
1	Green	GPO1+/STRB_OUT+	GPO1Positive end / flash output positive end	Default to flash output
2	Yellow	GPO1-/STRB_OUT-	GPO1Negative terminal / flash output negative terminal	Default to flash output
3	White	GPI1+/TRIG_IN+	GPI1Positive end / trigger input positive end	Default to trigger input
4	Brown	GPI1-/TRIG_IN-	GPI1Negative end / trigger input negative end	Default to trigger input
5	Red	GPO2+	GPO2Positive end output	
6	Black	GPO2-	GPO2Negative end output	



Port	Pin number	Line color	Signal name	Signal description	Remarks
Port A	1	Red	PWR+	Camera power input positive terminal	
	2	White	GPI1+/TRIG_IN+	GPI1 Positive end / trigger input positive end	Default to trigger input
	3	Brown	GPI2/GPO2	GPI2 Input / output	Non isolated bidirectional IO
	4	Green	GPO1+/STRB_OUT+	GPO1Positive end / flash output positive end	Default to flash output
	5	Yellow	GPO1-/STRB_OUT-/TRIG_IN-	GPO1 Negative terminal / flash output negative terminal / trigger input negative	GPIO common negative terminal
	6	Black	PWRGND	Camera power input negative terminal	

Port	Pin number	Line color	Signal name	Signal description	Remarks
Port A	1	Green	GPO1+/STRB_OUT+	GPO1Positive end / flash output positive end	Default to flash output
	2	Yellow	GPO1-/STRB_OUT-	GPO1Negative terminal / flash output negative terminal	Default to flash output
	3	White	GPI1+/TRIG_IN+	GPI1Positive end / trigger input positive end	Default to trigger input
	4	Brown	GPI1-/TRIG_IN-	GPI1Negative end / trigger input negative end	Default to trigger input
	5	Red	PWR+	Camera power input positive terminal	
	6	Black	PWRGND	Camera power input negative terminal	