

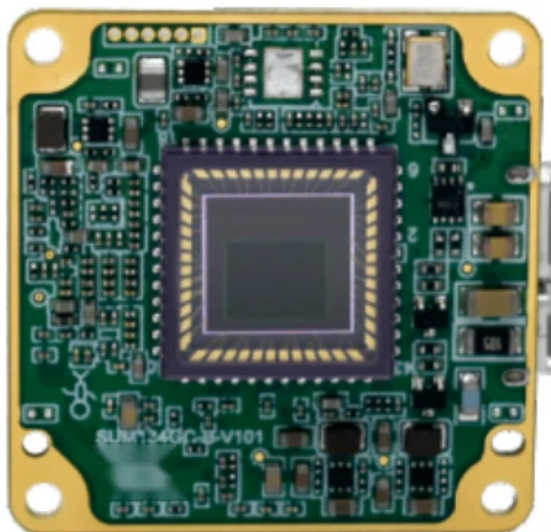
USB3.0 board camera / module (BL-AU)

LS-BL-AU series · Area scan cameras · 3 models

USB3.0 single board modules designed to be compatible with the USB3 Vision and GenICam standards and with LabVIEW, Halcon, VisionPro and other mainstream vision software. Applicable to electronics, semiconductor, factory automation, food and beverage, medical packaging and image measurement.

Features

- Single board design, small size, ultra-thin
- Embedded system integration is more convenient and integrated
- Supports 16bit gray and 48bit color lossless format output
- Multiple options: single board / C interface / M12 interface
- Programmable IO, supports external trigger and flash synchronous photography
- Supports PC Linux and ARM Linux, can be integrated into embedded devices
- Compatible with vision protocols; works with Halcon, VisionPro, LabVIEW and other vision software



Applications

- Electronics
- Semiconductor
- Factory automation
- Food and beverage
- Medical packaging
- Image measurement

Common specifications

Acquisition mode	Continuous / soft trigger / hard trigger
Frame cache	128MB
User defined data	2KB
Lens interface	Veneer (bare board) / C-Mount / M12
Power supply	5V
Weight	Veneer: <10g; C-Mount/M12-Mount: <30g
Overall dimension	C-Mount/M12-Mount: 35x35x8.6mm (without lens holder and external interface); Veneer: 32.5x32.5x1.6mm (without sensor and external interface)
Visual standards protocol	USB3.0Vision, GenICam
Data interface	USB3.0 MicroB
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

Operating 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.
GPIO	2 bidirectional IO, each IO has input or output function, which can be configured as input/output/trigger/flash in IO control
Suffix options	T-B: module (bare board), Recommended; -T-C: C-Mount, Recommended; -T-M: M12-Mount, Recommended
Connector pinout (Port A)	1 Red NC; 2 Black GND (GPIO common port); 3 Yellow GPIO1+ (bidirectional IO 1, default trigger); 4 Green GPIO2+ (bidirectional IO 2, default flash mode)

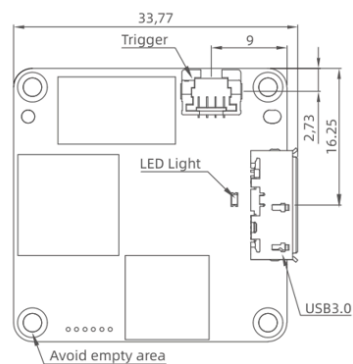
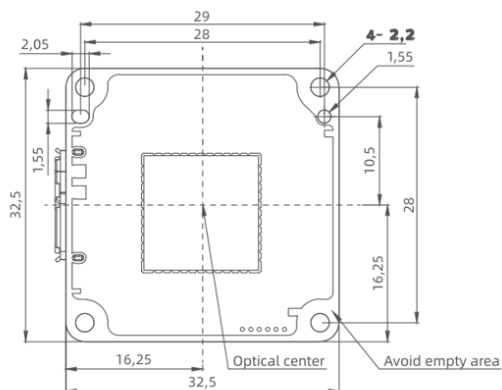
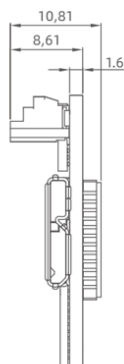
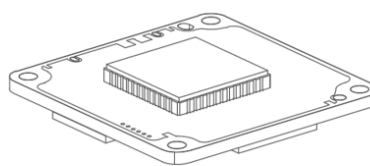
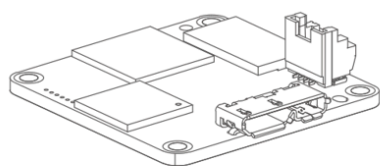
Ordering code: BL-AU<code>GC/M-<suffix> (suffix -T-B board, -T-C C-mount, -T-M M12-mount)

Models

Model	Resolution@frame rate	Pixels	Pixel size	Sensor type	Pixel bit depth	Maximum gain (multiple)	Exposure time range (ms)
LS-BL-AU33GC/M colours: Color, Mono	640×480@725FPS	0.3MP	4.0μm×4.0μm	1/5.6" CMOS	10bit	8	0.0027~22.3
LS-BL-AU133GC/M colours: Color, Mono	1280×1024@221.25FPS	1.3MP	4.0μm×4.0μm BSI	1/2.7" CMOS	8bit	6	0.0043~35.2
LS-BL-AU134GC/M colours: Color, Mono	1280×1024@202.25FPS	1.3MP	4.8μm×4.8μm	1/2" CMOS	8bit	16.5	0.0045~584.4

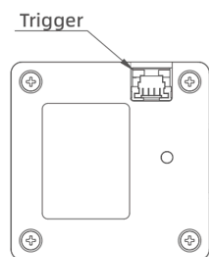
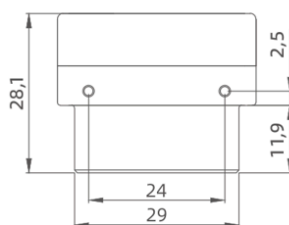
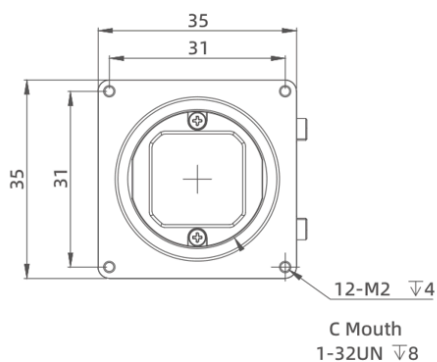
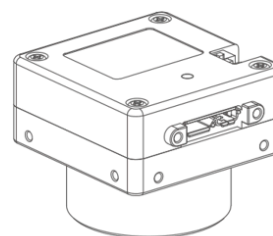
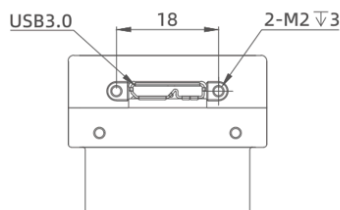
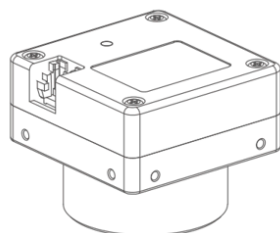
More values per model (Shutter method, Sensitivity, Sensor format, Mono / colour, Voltage) are on each product page.

Dimensions



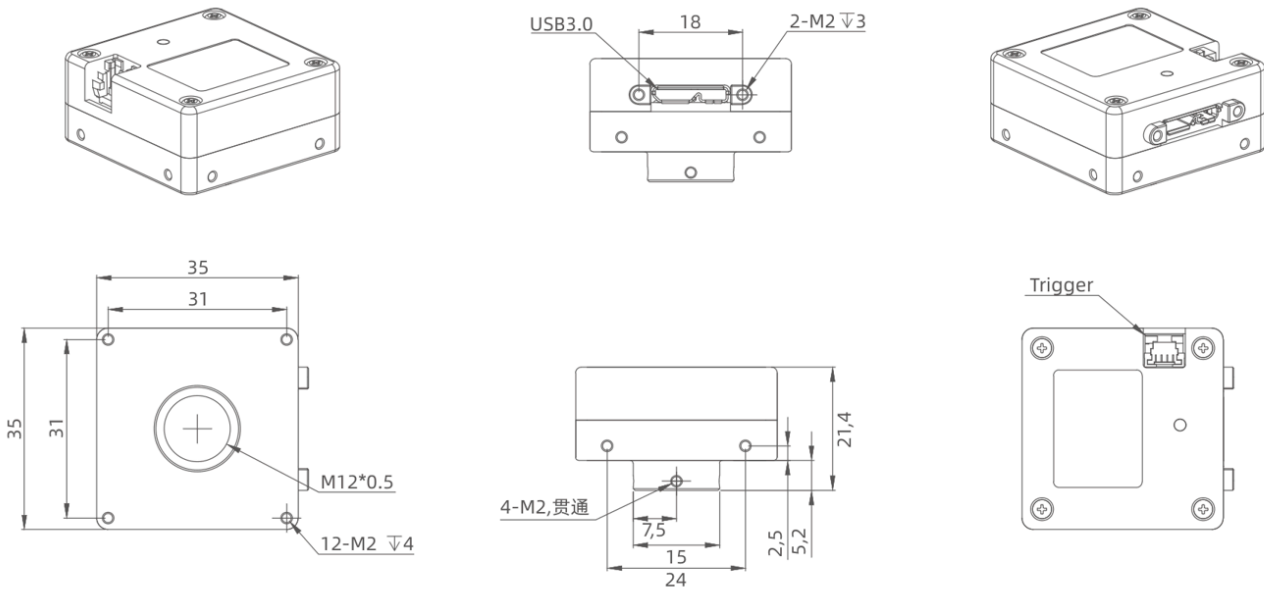
T-B

Unit: mm



T-C

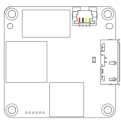
Unit: mm



T-M

Unit: mm

Performance



Port	Pin Numbr	Line Color	Signal Number	Signal Description	Remark
Port A	1	Red	NC		
	2	Black	GND	GPIO common port	
	3	Yellow	GPIO1+	Bidirectional IO 1	Default trigger
	4	Green	GPIO2+	Bidirectional IO 2	Default flash mode

Product views

