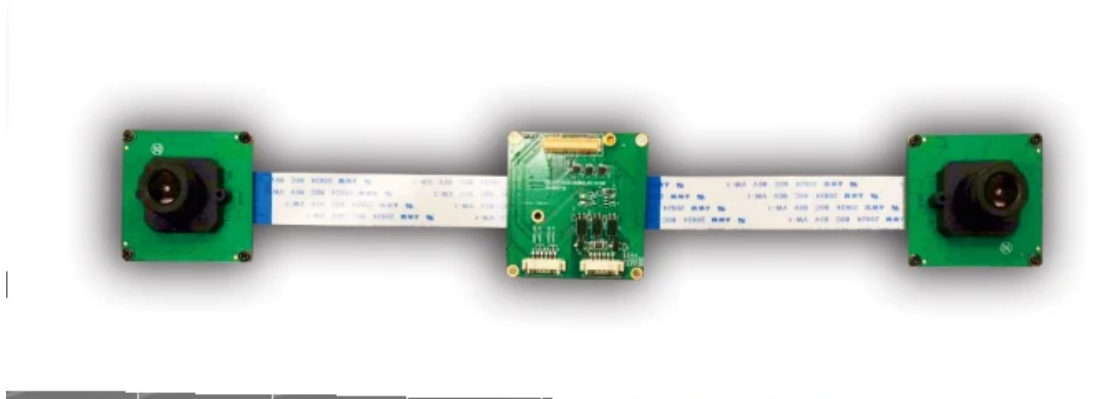


Binocular camera / module

LS-BL series · M12 board lenses · 7 models



Binocular camera series with higher module integration than two ordinary cameras: automatic binocular synchronization eliminates synchronous wiring, two on-board RS232 sets can control other components, and the modules output lossless grayscale images (no YUV conversion) over USB3.0 or GigE, with manual control of exposure, gain and other parameters; suitable for medium and advanced 3D applications.

Features

- FPC flexible cable length can be freely changed, and the baseline can be flexibly adjusted
- Supports lossless grayscale and raw data format output, non-YUV format
- Sensor board size can be customized to match different structural requirements
- Continuous, soft trigger and hard trigger modes; binocular images synchronized automatically, synchronization error at microsecond level
- Special SDK and driver (non-UVC), supports Windows, Linux and ARM Linux, compatible with Apple Mac OS and the single camera product SDK
- 0.3MP to 65 million pixels, CMOS and CCD supported
- Supports Halcon, VisionPro, OpenCV and other visual software
- USB3.0 and GigE transmission interfaces optional, other interfaces can be customized
- Working temperature can support -30~60 degrees; IP67 protective shell can be customized
- Module reserves 2 channels of RS232 interface, 1 channel of GPIO, 1 channel of flash output and 1 channel hard trigger input; custom accepted

Applications

- 3D applications

Common specifications

Sensor type	CMOS
Shutter	Global
Colour	Colour/Mono
Acquisition mode	Continuous/soft trigger/hard trigger
Frame cache	128M Bytes
User defined data area	2K Bytes
GPIO	1 channel trigger input, 1 channel flash control output; 2-way TTL serial port; 1 channel GPIO output
Lens mount	M12 lens holder can be installed
Overall dimension	Mainboard x1: 42 x 42mm; sensor board x2: 38 x 38mm; single side of flat cable: 200mm (adjustable as required)

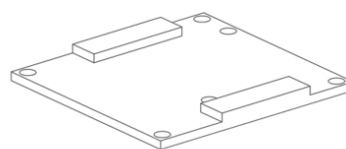
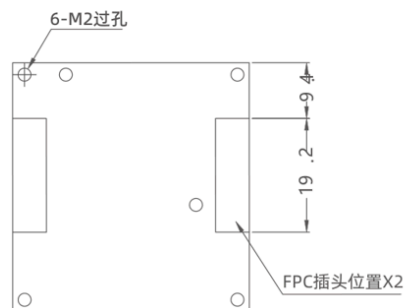
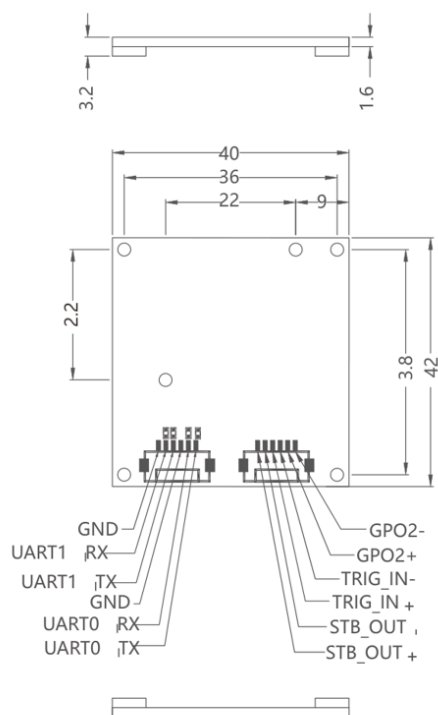
Weight	<75g
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Models

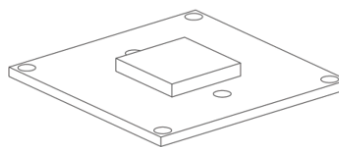
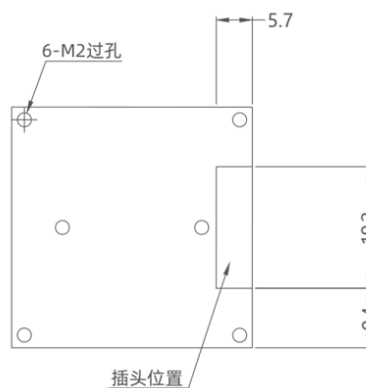
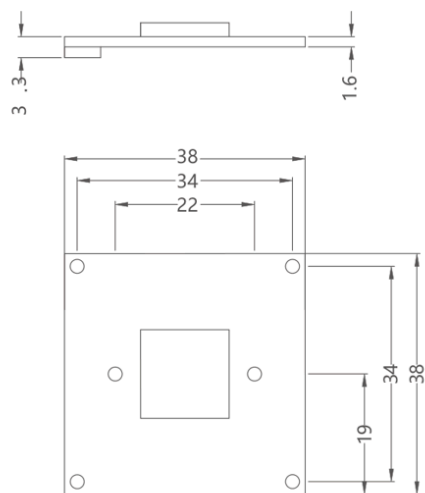
Model	Pixels	Resolution @ frame rate	Pixel size	Pixel bit depth	Sensitivity	Maximum gain (multiple)	Exposure time range (ms)
LS-BL-SU33GC/M2-T colours: GC, GM	0.3MP	640 x 480@580FPS	4.0µm x 4.0µm	8bit	8 V/lux-s 540nm	8	0.00124~20.7
LS-BL-SU34GC/M2-T colours: GC, GM	0.3MP	640 x 480@380FPS	4.8µm x 4.8µm	10bit	7.3V/lux-s 540nm	16.5	0.0040~524.3
LS-BL-SU133GC/M2-T colours: GC, GM	1.3MP	1280 x 1024@130FPS	4.0µm x 4.0µm	8bit	8V/lux-s	6	0.00194~31
LS-BL-SU134GC/M2-T colours: GC, GM	1.3MP	1280 x 1024@123FPS	4.8µm x 4.8µm	8bit	7.3 V/lux-s 540nm	16.5	0.0076~1001.8
LS-BL-AU34GC/M2-T colours: GC, GM	0.3MP	640 x 480@190FPS	4.8µm x 4.8µm	10bit	7.3 V/lux-s 540nm	16.5	0.0040~524.3
LS-BL-AU131GC/M2-T colours: GC, GM	1.22MP	1280 x 960@42FPS	3.75µm x 3.75µm	12bit	5.3V/lux-s 550nm	4	0.014~53
LS-BL-AU134GC/M2-T colours: GC, GM	1.3MP	1280 x 1024@45FPS	4.8µm x 4.8µm	10bit	7.3 V/lux-s 540nm	16.5	0.008~1024

More values per model (Shutter method, Video output format, Target size, Minimum exposure, Sensor model, Power supply, Power, Interface, Mono / colour, Voltage) are on each product page.

Dimensions



Unit: mm



Unit: mm

Product views

