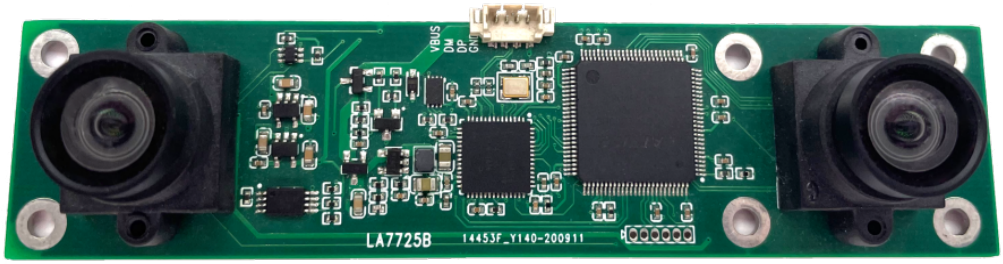
S2E1000CB Binocular Camera Module



- ◆ Resolution: 10 MP
- ◆ Frame Rate:
- ◆ Mono/Color: Color
- ◆ Shutter: Rolling Shutter
- ◆ Data Interface: USB2.0 Binocular Camera

The S2H1000CB-1 binocular industrial camera module has high integration and simple development. It can realize binocular full synchronization acquisition. Compared with using two ordinary cameras to build a synchronization system, the S2H1000CB-1 outputs the parameters collected by the two lenses into one picture through FPGA and connects to the computer through a single USB2.0 interface without an acquisition card. It can modify the gain (multiple), exposure time and other parameters in real time synchronization; our company provides a complete SDK and full technical support to help your project land quickly. S2H1000CB-1 is suitable for 3D applications, optical zoom applications, and binocular stereo vision measurement applications.

CHARACTERISTIC

- ➢ Customized according to customer requirements to match different application scenarios and structural requirements
- ➢ Simultaneously process data acquisition and image display of two channels
- ➢ SDK supports secondary development
- ➢ Real-time synchronization of parameter modification

SELECTION KEYPOINT

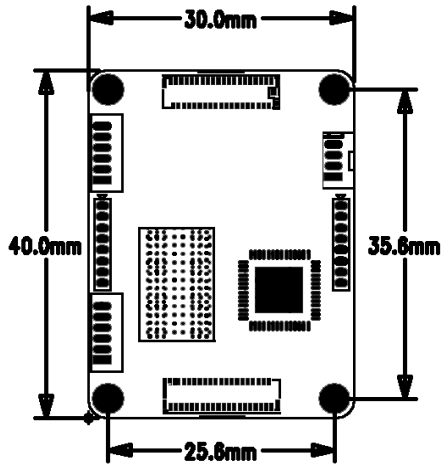
- ➢ Support Windows, Android, Linux, MacOS
- ➢ The effective transmission distance is 5 metres
- ➢ Small, suitable for more application scenarios

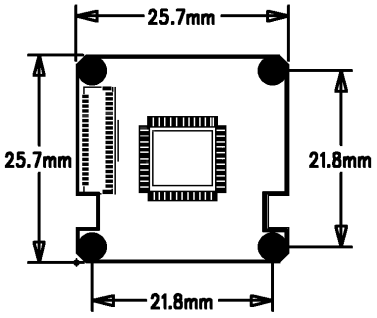
TECHNICAL PARAMETER

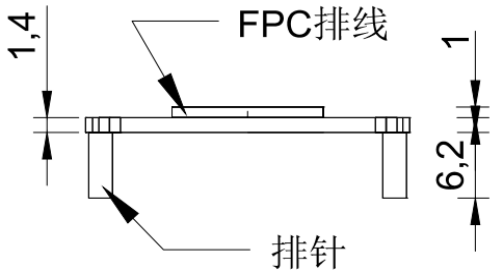
Model	S2H1000CB-1
Resolution	10MP
Type	10MP 1/2.3″ USB2.0 Binocular Camera Module
Sensor Type	CMOS
Sensor	MT9J003
Mono/Color	Color
Shutter	Rolling Shutter
Resolution(HxV)	3664×2748
Frame Rate	
Sensor size	1/2.3″
Pixel size	1.67μm x 1.67μm
SNR	34dB
Gain	8dB
Dynamic Range	65.2dB
Exposure Time	0.1610-1770ms
Sensitivity	0.31mV/lux-s
Pixel Bit depth	8/10bit
Pixel Format	Mono 8/10 Bayer 8/10
Binning	Supports 1×1, 1×2, 2×1, 2×2
Image buffer	32M Bytes
User parameter area	4K Bytes
Capture mode	Continuous/Soft trigger/Hard trigger
Data Interface	USB2.0 @ 480Mbps
transmission distance	5m
Digital I/O	I/O: One opto-isolated input, and two opto-isolated output
Power supply	5VDC,USB2.0 power supply
Power consumption	＜3.0 W@5 VDC
Dimension	115mmx27mmx24.6mm（Including lens and lens mount）
Lens mount	M12
Weight (typical)	30g（Including lens and lens mount）
Temperature	Working temperature: 0 ° C to 50 ° C (32 ° F to 122 ° F) Storage temperature: -30 ° C to 70 ° C (-22 ° F to 158 ° F)
Humidity	20% to 80% RH, without condensation
Driver	DirectShow、Twain、Halcon、OCX
Software support	Halcon、OpenCV、LabView、Matlab
Development languages	C/C++、VB6、VB.net、Delphi6、C#、QT、C++Builder、LabView、Python
Operating system	Windows、Linux、Android、MacOS

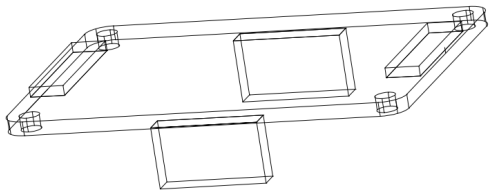
Compatibility	Directshow、Twain

MECHANICAL SPECIFICATION









SPECTRUM CHART

SPECTRAL CHARACTERISTICS

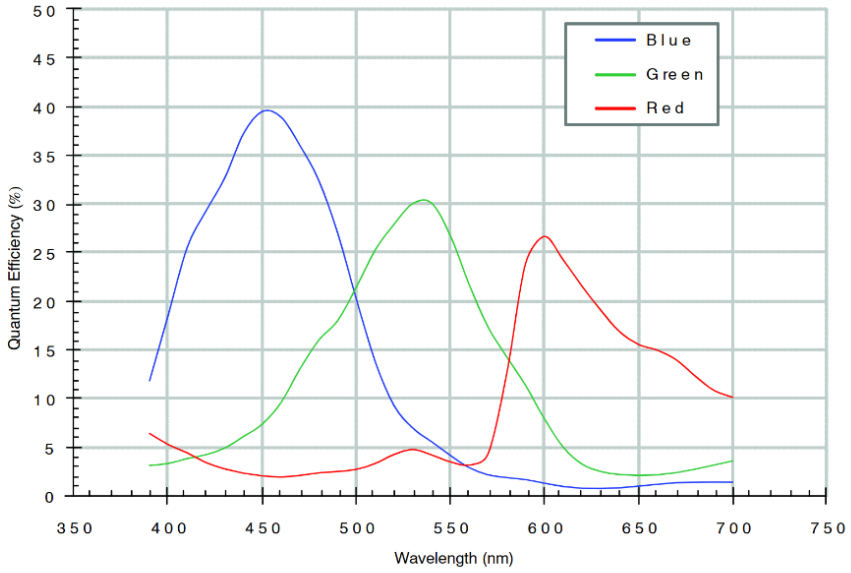


Figure 49. Quantum Efficiency