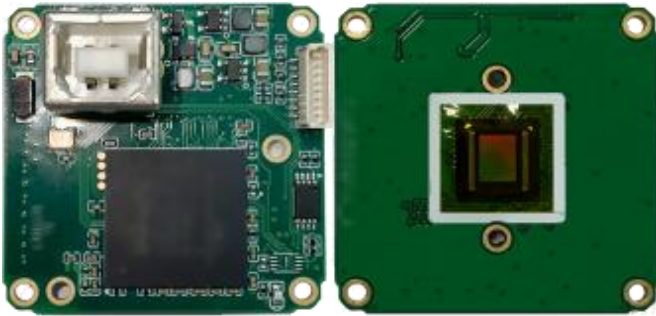


U2BMT500C USB2.0 Camera module



- ◆ Resolution: 5 MP
- ◆ Frame Rate: 7.5 fps
- ◆ Mono/Color: Color
- ◆ Shutter: Rolling Shutter
- ◆ Data Interface: USB2.0

The U2BMT series has excellent performance, is compact and lightweight, affordable, easy to install and use, and is compatible with third-party machine vision development software. Our company provides a complete SDK development package and a full range of technical support to help your project land quickly. The U2BMT series is suitable for applications that have strict requirements on stability, compatibility, size, and cost-effectiveness.

CHARACTERISTIC

- CMOS sensor, 5 MP
- Support hardware triggering, flash sync
- Support Windows, Android, Linux, MacOS
- The camera with frame buffer, Multiple cameras working simultaneously

SELECTION KEYPOINT

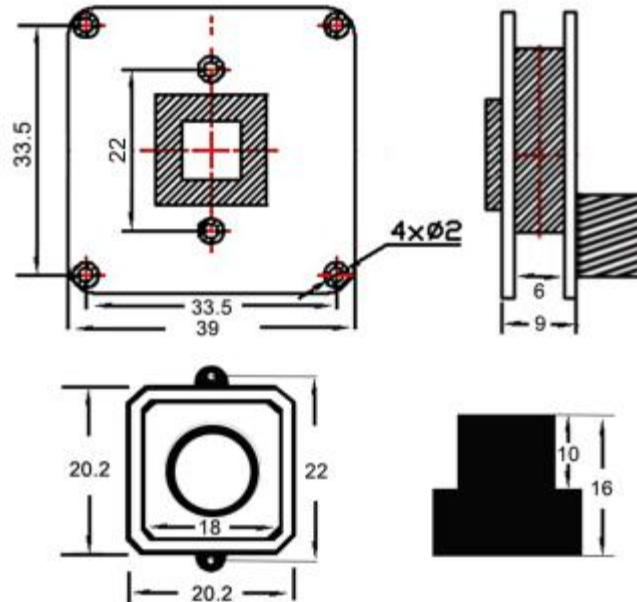
- No external power supply is required
- Maximum transmission rate 480 Mbps
- The effective transmission distance is 5 metres
- Small, suitable for more application scenarios

TECHNICAL PARAMETER

Model	U2BMT500C
Resolution	5MP
Type	5MP 1/2.5" USB2.0 Camera
Sensor Type	CMOS
Sensor	MT9P031
Mono/Color	Color
Shutter	Rolling Shutter
Resolution(HxV)	2592x1944
Frame Rate	7.5fps
Sensor size	1/2.5"
Pixel size	2.2μm x 2.2μm
SNR	38.1dB
Gain	15dB
Dynamic Range	70.1dB
Exposure Time	0.0617-30000ms
Sensitivity	1.4V/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	39mmx39mmx9mm (excluding len holder and interface)
Lens mount	C-mount / CS-mount
Ingress protection	IP30
Weight (typical)	16g (excluding len holder and interface)
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

MECHANICAL SPECIFICATION

单位: mm



SPECTRUM CHART

