U2BMT120C-GM USB2.0 Camera module

◆ **Resolution:** 2.3 MP

◆ **Frame Rate:** 38 fps

◆ **Mono/Color:** Color

◆ **Shutter:** Rolling Shutter

◆ **Data Interface:** USB2.0

U2BMT120C-GM is a new generation of USB2.0 industrial camera module independently developed by our company. On the basis of the previous generation of products, the difficulty of process assembly has been greatly reduced, and the compatibility of the product has been further enhanced. The U2BMT series has excellent performance, is compact and light, affordable, and easy to install and use. The size is only 39mm×39mm×20mm, plug-and-play, no power supply required, and can be flexibly installed in different structures. 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 with strict requirements on stability, compatibility, volume, and cost performance.

CHARACTERISTIC

➢ CMOS sensor,1.23 MP

➢ Support hardware triggering, flash sync

➢ Support Windows, Android, Linux, MacOS

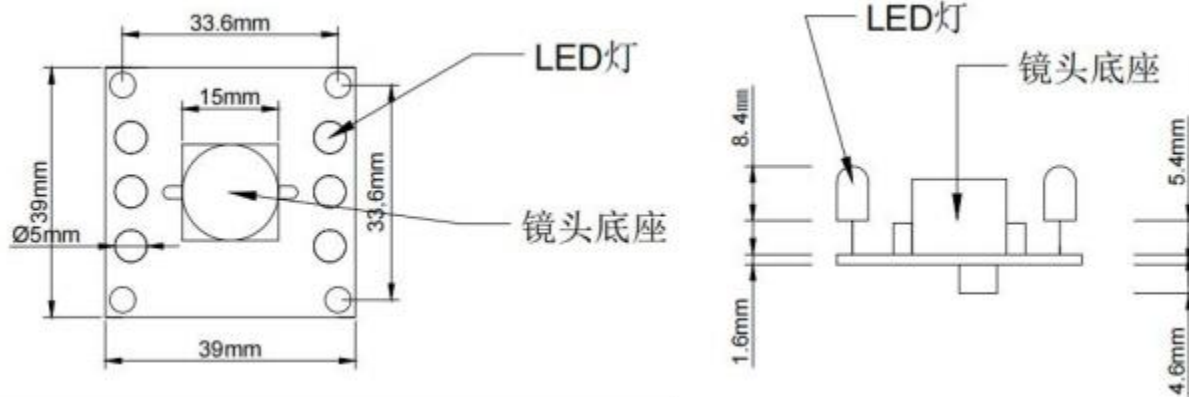➢ The camera with frame buffer, Multiple cameras working simultaneously

SELECTION KEYPOINT

➢ No external power supply is required

➢ Aximum transmission rate 480 Mbps

➢ The effective transmission distance is 5 metres

➢ Small, suitable for more application scenarios

TECHNICAL PARAMETER

Model	U2BMT120C-GM
Resolution	1.23MP
Type	1.23MP 1/3″ USB2.0 Camera
Sensor Type	CMOS
Sensor	AR0130
Mono/Color	Color
Shutter	Rolling Shutter
Resolution(HxV)	1280Hx960V
Frame Rate	38fps
Sensor size	1/3″
Pixel size	3.75μm x 3.75μm
SNR	38dB
Gain	8dB
Dynamic Range	64dB
Exposure Time	0.0266-30000ms
Sensitivity	5.3V/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	39mmx39mmx20mm
Lens mount	C-mount / CS-mount
Ingress protection	IP30
Weight (typical)	17g
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