

目录

GMSL1/2 to USB Recording Box 3

Main Features 3

Multiple versions available 3

 Standard 3

 TYPE-C version 4

 IPEX verison 4

Host computer software 5

User manual of host application 6

Software download 6

Sample config file 6

Test Result 7

Precautions for Use 8

GMSL1/2 to USB Recording Box

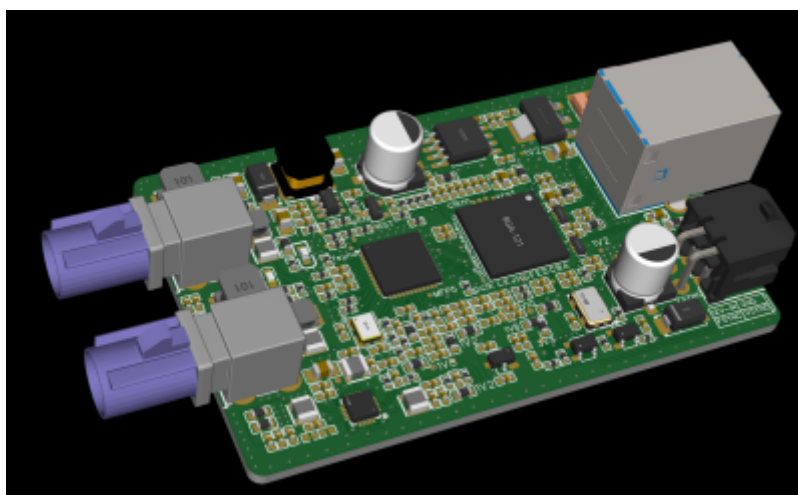
Plug-and-play, it can be used for video recording of GMSL cameras and debugging of GMSL cameras.

Main Features

- Compliant with the UVC device standard, no driver installation required for Windows/Linux, ready to use.
- Provides a Windows-based host application (Linux version under development) for configuring GMSL/camera.
- Debugging of GMSL camera output, with universal configuration scripts that can be mastered in 5 minutes.
- Video recording for GMSL cameras, compatible with video recording software such as PotPlayer, Windows Camera, and VLC.
- Compact size: 4cm * 6cm * 1.8cm.
- Powered solely via USB, eliminating the need for external camera power supply.
- Uses MAX9296 deserializer, compatible with GMSL2/GMSL1, configurable for 3G/6Gbps.
- Equipped with a robust and reliable USB TYPE-B interface.

Multiple versions available

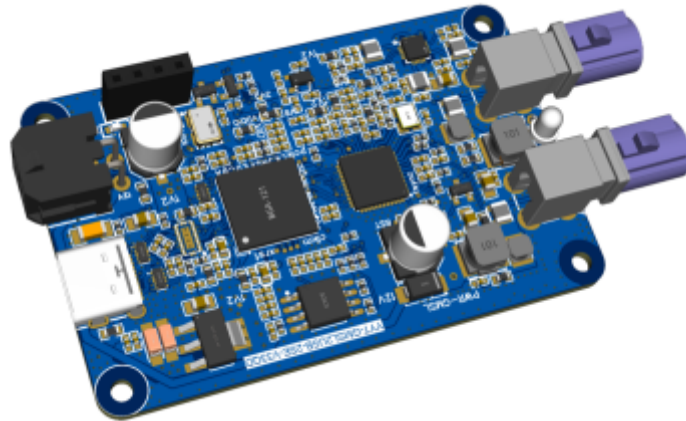
Standard



Main Features

- USB TYPE-B interface, robust and reliable
- Standard Fakra interface, Z-type
- USB-powered, no external power supply required
- Synchronization trigger signal input
- Frame output signal output

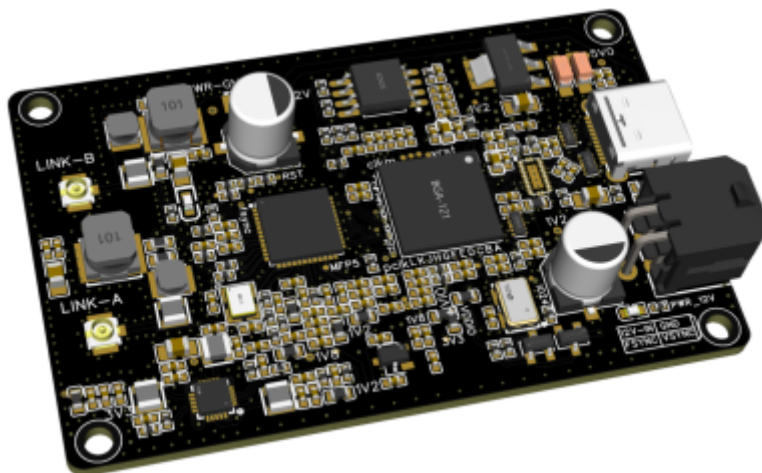
TYPE-C version



Main features

- USB Type-C interface, universal, supports reversible insertion
- Standard Fakra interface, Z-type
- External power supply, 9-16V, with reverse polarity protection
- Synchronization trigger signal input
- Frame output signal output

IPEX version



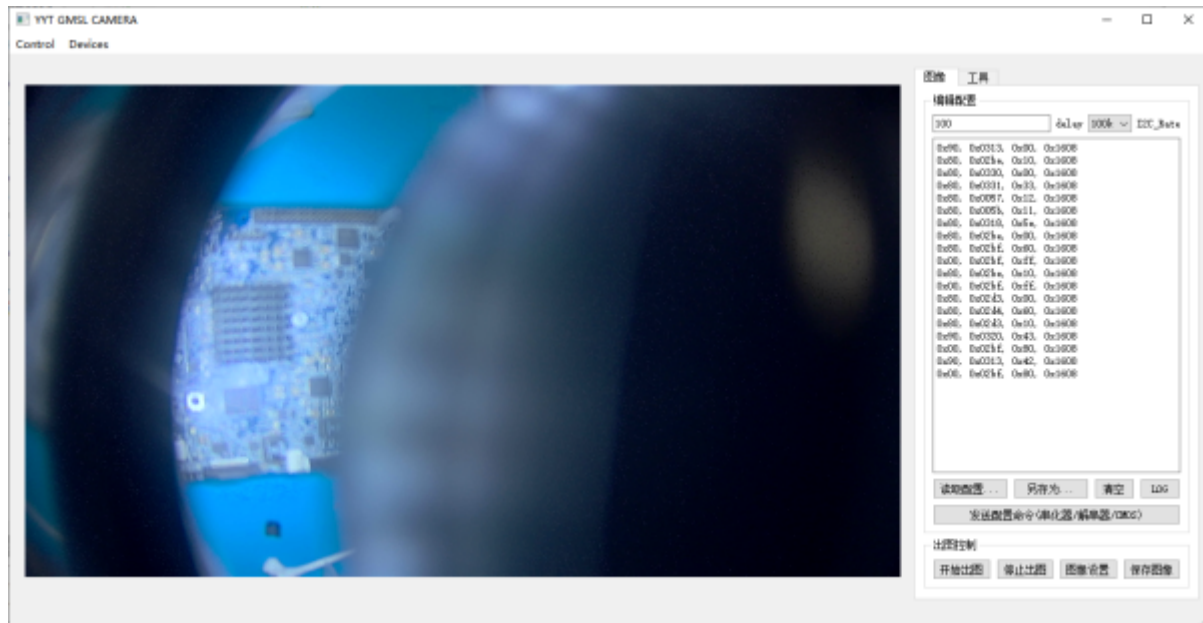
Main features

- USB Type-C interface, universal, supports reversible insertion
- GMSL uses IPEX interface, compact and lightweight
- External power supply, 9-16V, with reverse polarity protection
- Synchronization trigger signal input
- Frame output signal output

Host computer software

please contact us **Technical Support**

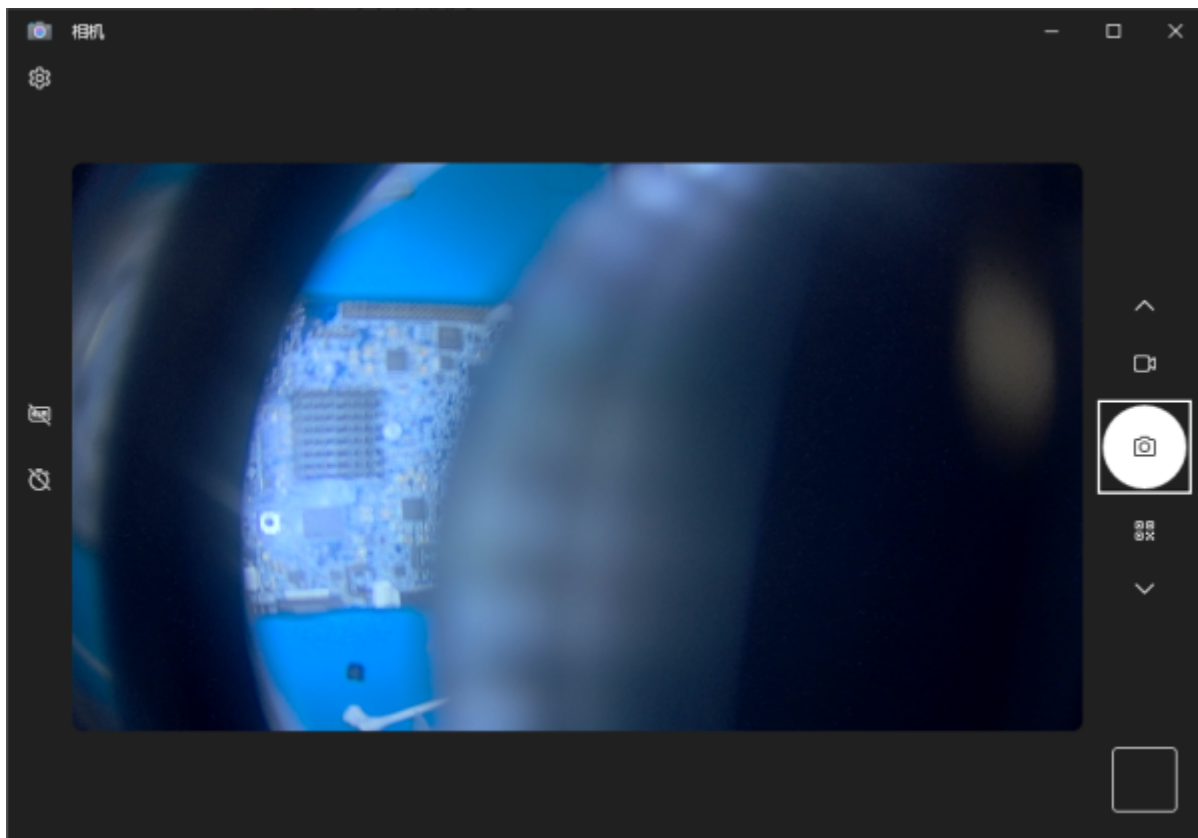
Open with host application:



Open or record with Potplayer:



Open with windows/camera:



User manual of host application

[Host application user manual](#)

Software download

please contact us: [Technical Support](#)

Sample config file

sensing camera (GW5200-IMX390-GMSL2)[]

[/home/imx390-max9295-max9296.ycc](#)

```
0x90, 0x0313, 0x00, 0x1608
0x80, 0x02be, 0x10, 0x1608
0x80, 0x0330, 0x00, 0x1608
0x80, 0x0331, 0x33, 0x1608
0x80, 0x0057, 0x12, 0x1608
0x80, 0x005b, 0x11, 0x1608
0x80, 0x0318, 0x5e, 0x1608
```

```
0x80, 0x02be, 0x00, 0x1608
0x80, 0x02bf, 0x60, 0x1608
0x00, 0x02bf, 0xff, 0x1608
0x80, 0x02be, 0x10, 0x1608
0x00, 0x02bf, 0xff, 0x1608
0x80, 0x02d3, 0x00, 0x1608
0x80, 0x02d4, 0x60, 0x1608
0x80, 0x02d3, 0x10, 0x1608
0x90, 0x0320, 0x43, 0x1608
0x00, 0x02bf, 0x80, 0x1608
0x90, 0x0313, 0x42, 0x1608
0x00, 0x02bf, 0x80, 0x1608
```

Test Result

Dual Channel 1080p cameras in sync:

[dual-1080p-gmsl2usb.mp4](#)

Screen shot:



The test was concluded without errors, having run for over 3.11 million frames over a duration exceeding 28 hours, with no frame drops and no screen corruption.

Precautions for Use



Due to the large data volume of YUV cameras, to ensure continuous and stable operation, YYTECH recommends:

- Use a desktop computer whenever possible.
- Ensure stable USB power supply (temporarily disconnect other high-power-consuming USB devices).
- Use the computer's native USB ports and avoid connecting the camera via a HUB.
- Minimize the use of other resource-intensive software while running camera-related applications.

From:
<https://wiki.yytech.cc/> - YYT Docs

Permanent link:
<https://wiki.yytech.cc/doku.php?id=en:%E8%A7%86%E9%A2%91%E5%BD%95%E5%88%B6%E4%B8%8E%E5%9B%9E%E6%94%BE%E4%BA%A7%E5%93%B1:gmsl2usb%E8%BD%AC%E6%8D%A2%E7%9B%92>

Last update: 2025/10/02 22:31

