

Instructions for Using GMSL Camera

1. Background notes

Orbbec Gemini-335Lg, Gemini345Lg camera; Different from the traditional RGB gmsl interface camera, the data flow, data bandwidth and power supply requirements are very different. Therefore, when accessing different gmsl deserializer boards, there will be different restricted usage scenarios; This article lists the gmsl interface of the use of the camera restrictions.

2. Restrictions for Common Scenarios

- GMSL series cameras, color streams support YUYV and RGB formats, but do not support MJPG formats; RGB formats are converted from YUYV formats within the SDK.
- G335Lg can only support Secondary mode but not Primary mode. The host (soc) must send a trigger signal. Refer to SDK Sample.cpp)
- When using Max96712 deserializer in Secondary mode, it is necessary to send fsin signal at the same time. Otherwise, the switch flow will cause deep stop
- Two cameras connected to the same Max9296, Max96712 LinkA/B, Max96712 LinkC/D have the following restrictions:
 - RGB of one camera and right IR of another camera cannot be opened at the same time
 - The DEPTH of one camera and the left IR of another camera cannot be opened at the same timeOrbbec
 - Two cameras add up to 4 flows (This condition is met when the first two conditions are met at the same time)
- No. In the Secondary mode of the previous version of 4.60, the fsin signal is sent first, and then the flow is opened. In the Hardware Trigger mode, the flow is opened first and then the Trigger signal is sent.