# Goscam SDK接口协议

高斯贝尔智能家居有限公司 二。一四年十月

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## 1 概述

## 1.1 说明

Goscam是一家专业的安防设备生产商,集研发、生产、销售于一体,旗下产品包括婴儿看护、家庭安防、运动DV等系列产品。本文档用于帮助客户将我们的IP系列产品接入客户的平台,客户只需要维护一个云平台,即可通过少许的工作将我们的IPC变成客户自有产品,实现终端+平台的整体解决方案,向终端用户提供可远程访问的高质量、性能丰富的IP摄像头。

本帮助文档的内容包括IPC SDK的系统架构、功能模块介绍、用户使用说明及接口的详细使用范例,用户基于此SDK包,不仅可以轻易的实现云协议对接,而且还可以进行一些功能扩展,实 现一些个性化的功能开发。

## 1.2 开发所需资源

Goscam出品的IPC设备; SDK开发包,包括库文件和相应头文件; 交叉编译工具链

## 1.3 术语表

术语	含义	
SDK	Software Development Kit	



## 2 SDK开发套件交付清单

1. 我们提供给客户的套件主要包括如下几个部分,任一部分均可以在以下链接下载获取: <a href="http://pan.baidu.com/s/1bn6PPjp?qq-pf-to=pcqq.e2c">http://pan.baidu.com/s/1bn6PPjp?qq-pf-to=pcqq.e2c</a>

#### 2. Tree图

```
Goscam_IPC_SDK_Development_KITs/
|-- cross compilation tools
    '-- amba-toolchain-2014.04.zip //cross compiling tools
|-- documents
    |-- goscam_burn_image_to_device.doc.pdf
    '-- goscam sdk Interface protocol_20150518.pdf
|-- examples
|-- goscam ambarella burn imgae
    |-- DirectUSB II-Setup.exe
                                 //driver
    |-- DirectUSB-tools.rar
                                 //pc tools
   `-- amboot bld hal pba kernel lnx release.bin //default flash image
'-- sdk srcs
    | -- compile.txt
    |-- include
        |-- sdk commonstruct.h
        |-- sdk define.h
        `-- sdkout_impl.h
    |-- lib
        |-- libGoscamDevSdk.a
        |-- libamrc.so
        |-- libamutils.so
        |-- libasound.so
        |-- libfreetype.so
        `-- liblbr.so
    `-- sample
        '-- sdk main.c
```

## 3 如何开始工作

#### 3.1 开发环境安装

如果有安霸芯片开发经验,可以略过。

- 1. 安装虚拟机或linux系统,要求系统Fedora 15~20,或Ubuntu 12.04及以后;
- 2. 安装交叉编译器。

进入 目 录:...\Goscam\_IPC\_SDK\_Development\_KITs\cross\_compilation\_tools\ambatoolchain-2014.04,根据readme.txt,执行相应操作,执行完毕后,可在/usr/local下看到有交叉编译工具链的目录生成。

#### 3.2 试用机器

1. 此时,您手头应该会有一台我们的IPC设备,当这台设备到您手头时,我们已经在里面烧录好程序,上电即可运行。设备端wifi默认处于AP模式状态,热点名称是一串16位的数



- 字,类似6320388800000070,您此时仅可以使用我们的手机APP(ios/android: ulife)直连IPC查看视频,以验证机器的硬件环境是OK的;您也可以通过扫描手机二维码,让设备获取SSID/PASSWD,连上指定的路由器,在局域网内搜索IPC。
- 2. 若机器运行不正常,或在您的开发过程中,因某些原因需要让机器恢复到初始状态,您可以重新烧写flash,方法参考: ..\Goscam\_IPC\_SDK\_Development\_KITs\documents\ goscam\_burn\_image\_to\_devic.pdf .

#### 3.3 编程

1. 验证机器硬件环境无误后,接下来就是基于我们提供的..\
Goscam\_IPC\_SDK\_Development\_KITs\sdk\_srcs\sample\sdk\_main.c 完成平台对接工作,包括音视频流的获取,远程的信息交互,IPC 参数的动态控制等等。可参考..\Goscam\_IPC\_SDK\_Development\_KITs\examples下的例子。

2. 编译 , 生 成 可 执 行 程 序 。 编 译 方 法 请 参 考 ..\

Goscam IPC SDK Development KITs\sdk srcs\compile.txt。

## 3.4 调试与验证

- 1. 上一步生成可执行程序后,接下来是验证您工作的成果,首先,将可执行程序拷贝到 IPCamera的文件系统的目录/opt/ipnc下,如何拷贝?可以考虑NFS挂载文件系统;
- 2. 将可执行程序重命名为GS\_IPC,重新启动设备或在当前目录下执行 ./GS\_IPC &。运行出错?不要慌,返回3.2,检查您的代码,重新编译,然后重复3.3.

## 3.5 生产

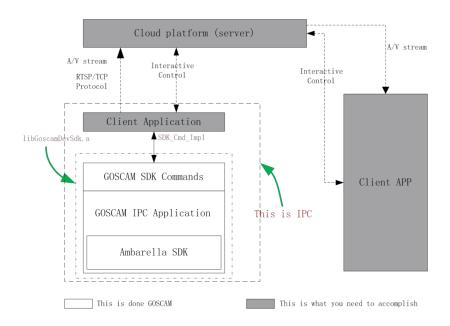
通过您的努力,反复调试确认GS\_IPC运行无误后,请将此文件发还给我们,我们将用它制作新的amboot\_bld\_hal\_pba\_kernel\_lnx\_release.bin镜像文件,批量烧录flash,生产成品机器。

至此, 恭喜您, 对接工作完成了!

## 4 系统架构图

设备底层驱动、功能及逻辑控制都已经在SDK中完成,客户仅需要通过命令方式与SDK交互,即可以实现音视频流数据的获取,完成客户云平台的对接后,远程APP与IPC可进行动态交互。SDK的调用关系图如下所示。





## 5 功能模块

SDK依据功能划分成若干个模块,包括系统模块,视频模块,音频模块,sensor模块,报警模块,OSD模块,录像模块,抓拍模块,升级模块,网络模块,云台模块,调试打印模块,对应不同模块有各自命令接口。接下来的内容是对每个命令的使用条件、参数进行介绍,并对关键命令给出使用范例。

客户在使用各模块命令时,都是用的统一调用接口: int SDK\_Cmd\_Impl(CMD, Param)。

## 5.1 系统模块

此模块完成系统初始化,系统启动等操作,利用这些命令,可以将GOSCAM IPC顺利的跑起来,但是没有与云端交互。系统模块包括以下命令:

- ➤ SDKCMD\_SYS\_INIT: 初始化IPC系统
- ➤ SDKCMD\_SYS\_RUN:运行IPC系统
- ➤ SDKCMD\_SYS\_EXIT: 退出IPC系统
- ▶ SDKCMD\_GET\_DEVICE\_INFO: 获取设备型信息
- ➤ SDKCMD SAVE ALL PARAM: 保存全部参数
- ➤ SDKCMD\_REBOOT\_DEVICE: IPC重启
- ➤ SDKCMD\_RESET\_DEVICE: IPC重置
- ▶ SDKCMD\_SET\_DEVICE\_TIME: 设置IPC时间
- ▶ SDKCMD\_SET\_NIGHT\_VISION:设置夜视相关参数
- ▶ SDKCMD\_GET\_NIGHT\_VISION: 获取夜视相关参数
- ▶ SDKCMD\_SET\_CONNECTED\_PLATFORM\_STATUS: 设置登录平台状态
- ▶ SDKCMD\_SET\_LED\_STATUS:设置LED状态
- ▶ SDKCMD\_SET\_DEVICE\_AUTHENTICATION: 设置置IPC接入TUTK平台的鉴权信息
- ▶ SDKCMD\_GET\_DEVICE\_AUTHENTICATION: 获取IPC接入TUTK平台的鉴权信息



- ➤ SDKCMD\_GET\_DEVICE\_ABILITY: 获取IPC能力集
- ▶ SDKCMD\_SET\_LIGHT\_SWITCH: 设置灯开关
- ➤ SDKCMD\_GET\_LIGHT\_SWITCH: 获取灯开关
- ▶ SDKCMD\_SET\_LIGHT\_DURATION:设置灯照时长,包括手动开灯时长、触发亮灯时长
- ▶ SDKCMD GET LIGHT DURATION: 获取灯照时长,包括手动开灯时长、触发亮灯时长
- ➤ SDKCMD\_SET\_LIGHT\_TIMING\_INFO: 设置定时亮灯时间点(晚上开灯、早晨灭灯时间点, 以及一周生效的天数)
- ➤ SDKCMD\_GET\_LIGHT\_TIMING\_INFO: 获取定时亮灯时间点(晚上开灯、早晨灭灯时间点, 以及一周生效的天数)

## 5.1.1 SDKCMD SYS INIT

## 【描述】

必须调用。

## 【参数】

无。

#### 【返回值】

返回值	描述
0	成功
非0	失败,其值为错误代码

## 【需求】

- ▶ 头文件
- ▶ 库文件

#### 【范例】

```
case SDKCMD_SYS_INIT:
{
    retcode = SDK_sysInit();
    if(retcode)
    {
        Dbg_Trace(GOS_LOG_ERR, "\nSDK_sysInit Error,
        ERRCODE: %d\n", retcode);
        return retcode;
    }
    break;
}
```

#### 【相关命令】

- SDKCMD\_SYS\_RUN
- SDKCMD\_SYS\_EXIT

## 5.1.2 SDKCMD\_SYS\_RUN

## 【描述】

必须调用,且需在调用SDKCMD\_SYS\_INIT命令之后。



## 【参数】

无。

## 【返回值】

返回值	描述
0	成功
非0	失败,其值为错误代码

## 【范例】

```
case SDKCMD_SYS_RUN:
{
    retcode = SDK_sysRun();
    if(retcode)
    {
        Dbg_Trace(GOS_LOG_ERR, "\nSDK_sysRun Error,
        ERRCODE: %d\n", retcode);
        return retcode;
    }
    break;
}
```

## 5.1.3 SDKCMD\_SYS\_EXIT

## 【描述】

退出系统运行, 回收资源。

## 【参数】

无。

## 【返回值】

返回值	描述
0	成功
非0	失败, 其值为错误代码

## 【范例】

```
case SDKCMD_SYS_EXIT:
{
    retcode = SDK_sysExit();
    if(retcode)
    {
        Dbg_Trace(GOS_LOG_ERR, "\nSDK_sysExit Error,
        ERRCODE: %d\n", retcode);
        return retcode;
    }
    break;
}
```

## 5.1.4 SDKCMD\_GET\_DEVICE\_INFO

## 【描述】

非必须调用,获取设备型信息。

## 【参数】



```
typedef struct
{
    char a_name[64];
    char a_type[64];
    char a_software_version[64];
    char a_hardware_version[64];
    char a_id[64];
    char a_wifi_mac[64];
    char a_line_mac[64];
}T_SDK_DEVICE_INFO;
【范例】
```

```
case SDKCMD_GET_DEVICE_INFO://获取设备型信息
{
    T_SDK_DEVICE_INFO *pt_deviceInfo = (T_SDK_DEVICE_INFO*)param;
    retcode = SDK_GetDeviceInfo(pt_deviceInfo);
    if( SDK_SUCESS != retcode)
    {
        Dbg_Trace(GOS_LOG_ERR, "\nDEVICE TYPE GET FAILED!\n");
        return SDK_FAILUR;
    }
    break;
}
```

## 5.1.5 SDKCMD\_SAVE\_ALL\_PARAM

## 【描述】

保存全部参数。

【参数】

无。

#### 【范例】

## 5.1.6 SDKCMD REBOOT DEVICE

【描述】

IPC重启。

【参数】

无。

【范例】



```
case SDKCMD_REBOOT_DEVICE://设备重启
{
    Gos_Man_De_St.reboot_flag = 1;
    return SDK_SUCESS;
    break;
}
```

## 5.1.7 SDKCMD\_RESET\_DEVICE

#### 【描述】

对设备执行复位操作,恢复出厂默认值。

## 【参数】

无。

#### 【范例】

## 5.1.8 SDKCMD\_SET\_DEVICE\_TIME

#### 【描述】

设置IPC时间。

#### 【参数】

```
typedef struct
{
  unsigned int un_year; //value range (1970~2055)
  unsigned int un_month; //value range (1~12)
  unsigned int un_day; //value range (1~31)
  unsigned int un_hour; //value range (0~23)
  unsigned int un_minute; //value range (0~59)
  unsigned int un_second; //value range (0~59)
}T_SDK_DEVICE_TIME;
```

#### 【范例】



```
return retcode;
break;
}
```

## 5.1.9 SDKCMD\_SET\_NIGHT\_VISION

#### 【描述】

设置夜视相关参数。

#### 【参数】

#### 【范例】

```
case SDKCMD SET NIGHT VISION:
{
    T_SDK_NIGHT_VISION *pData = (T_SDK_NIGHT_VISION*)param;
    retcode = SDK_SetNightVision(pData);
    if( SDK_SUCESS != retcode)
    {
        Dbg_Trace(GOS_LOG_ERR, "\nSet Night Vision FAILED!\n");
        return SDK_FAILUR;
    }
    break;
}
```

## 5.1.10 SDKCMD\_GET\_NIGHT\_VISION

#### 【描述】

获取夜视相关参数。

## 【参数】

#### 【范例】

## 5.1.11 SDKCMD\_SET\_CONNECTED\_PLATFORM\_STATUS

#### 【描述】

设置登录平台状态。

## 【参数】



param。 【范例】

## 5.1.12 SDKCMD\_SET\_LED\_STATUS

```
【描述】
设置LED状态.
```

```
【参数】
typedef struct
{
    unsigned int un_gpio_0;
```

unsigned int un\_gpio\_0, unsigned int un\_gpio\_1; unsigned int un\_value;

}T\_SDK\_LED; 【范例】

```
case SDKCMD_SET_LED_STATUS:
{
    retcode = SDK_SetGPIO((T_SDK_LED *)param);
    if(SDK_SUCESS != retcode)
    {
        Dbg Trace(GOS LOG ERR, "SDKCMD SET LED STATUS
        FAILED!\n");
        return SDK_FAILUR;
    }
    break;
}
```

## 5.1.13 SDKCMD\_SET\_DEVICE\_AUTHENTICATION

```
【描述】
设置用户策略。
【参数】

typedef struct
{
    int index; //输入参数0,1,2
    char user_name[64];
    char passwd[64];
    char reserved[4];
}T_SDK_DEVICE_AUTHENTICATION_INFO;
```



#### 【范例】

#### 【注意事项】

无。

## 5.1.14 SDKCMD\_GET\_DEVICE\_AUTHENTICATION

#### 【描述】

获取用户策略。

## 【范例】

## 5.1.15 SDKCMD\_GET\_DEVICE\_ABILITY

#### 【描述】

获取IPC能力集。

## 【参数】

//IPC 能力集结构体,主要用于给APP端提供隐藏或显示相关件UI 的依据



```
typedef struct
unsigned int encrypted ic flag; //是否有加密IC
                                    //是否有PIR传感器, 0:无, 1:有,
unsigned int pir flag;
下同
unsigned int ptz flag;
                                    //是否有云台
unsigned int mic flag;
                                    //是否有咪头
                               //是否有喇叭
unsigned int speaker flag;
unsigned int sd flag;
                                    //是否有SD卡
unsigned int temperature_
unsigned int timezone_flag;
unsigned int temperature flag; //是否有温感探头
                               //是否支持同步时区
                                    //是否支持夜视
unsigned int resolution_0 flag;
                               //主码流分辨率大小 Width:高16位 Height:
低16位 Ming@2016.06.14
unsigned int resolution 1 flag; //子码流分辨率大小 Width:高16位 Height:
低16位 Ming@2016.06.14
unsigned int reserver[8];
}T SDK DEVICE ABILITY INFO;
//IPC 能力集结构体,主要用于给APP端提供隐藏或显示相关件UI 的依据
typedef struct
                                      900中性版
unsigned int c device type; //设备类型
                                                 101彩益
100海尔
       901高世安
                                    //主码流分辨率大小 Width:高16位
unsigned int un resolution 0 flag;
Height:低16位 Ming@2016.06.14
unsigned int un resolution 1 flag;
                                    //子码流
unsigned int
             un resolution 2 flag;
                                    //第3路码流
unsigned char c encrypted ic flag;
                                    //是否有加密IC
unsigned char c pir flag;
                                    //是否有PIR传感器, 0:无, 1:有,
下同
unsigned char c_ptz_flag;
                                    //是否有云台
unsigned char c mic flag;
                                    //是否有咪头
                                    //是否有喇叭
unsigned char c speaker flag;
unsigned char c sd flag;
                                    //是否有SD卡
unsigned char c_temperature_flag;
                                    //是否有温感探头
unsigned char c timezone flag;
                                    //是否支持同步时区
unsigned char c night vison flag; //是否支持夜视
unsigned char ethernet_flag; //是否带网卡0:wifi 1有线2wifi加有线
unsigned char c_smart_connect_flag; //是否支持smart扫描0代表不支持,
1代表7601smart 2代表8188smart
unsigned char c motion detection flag; //是否支持移动侦测
unsigned char c record duration flag;
}T SDK DEVICE ABILITY INFO1;
//IPC 能力集结构体,主要用于给APP端提供隐藏或显示相关件UI 的依据
typedef struct
{
              c device type; //设备类型
                                      900中性版
unsigned int
100海尔
       901高世安
                     200NVR设备 180 VR设备(180) 300 360全景摄像机
unsigned int un resolution 0 flag; //主码流分辨率大小 Width:高16位
Height:低16位 Ming@2016.06.14
unsigned int un_resolution_1_flag;
                                    //子码流
              un resolution 2 flag;
                                    //第3路码流
unsigned int
unsigned char c encrypted ic flag;
                                    //是否有加密IC //是否支持硬解绑
```



```
//是否有PIR传感器, 0:无, 1:有,
unsigned char c pir flag;
下同
unsigned char c_ptz flag;
                                    //是否有云台
unsigned char c mic flag;
                                    //是否有咪头
unsigned char c speaker flag;
                                    //是否有喇叭
unsigned char c sd flag;
                                    //是否有SD卡
unsigned char c temperature flag;
                                    //是否有温感探头
                                    //是否支持同步时区
unsigned char c timezone flag;
unsigned char c night vison flag; //是否支持夜视
                               //是否带0
                                         代表不支持,
unsigned char ethernet flag;
                                    1
                                         代表7601smart
                                    2
                                         代表8188smart
                                    3
                                         代表ap6212
                                         不支持二维码扫描
                                         只支持二维码扫描
                                    11代表二维码扫描+7601smart
                                    12代表二维码扫描+8188smart
                                    13代表二维码扫描+ap6212smart
                                    14代表AP添加
                                    15代表AP添加+8188smart
网卡0:wifi 1有线2wifi加有线
                                    /* 是否支持smart扫描
unsigned char c smart connect flag;
unsigned char c motion detection flag; //是否支持移动侦测
unsigned char c_record duration flag; // 是否有设置录像录像时长
unsigned char c light flag; // 是否有设置照明灯开关
unsigned char c audio alarm detection flag; //是否支持声音侦测报警
unsigned char align1; // 是否支持摇篮曲 0.不支持 1.5886HAB 2.GD8202KE
3.VOXX系列
/*
                           // 是否带电池 0. 无 , 1. 有
reserver default off[0]
                           // 是否支持WIFI远程唤醒 0.不支持,
reserver_default_off[1]
reserver default off[2] // 是否支持状态灯开关 0.不支持,
                      // 是否支持摄像头开关 0.不支持, 1支持
reserver default off[3]
                      // 是否支持摄像头麦克风开关 0.不支持, 1支持
reserver default off[4]
                       // 是否支持云存储 0.不支持, 1支持
reserver default off[5]
reserver default off[6]
                           // 是否支持打开流鉴权
                          // 是否支持Alexa Voice Service
reserver default off[7]
reserver default off[8]
                          // 是否支持Alexa Skills_Kit
                          // 是否支持湿度
reserver default off[9]
reserver default off[10]
                          // 是否支持WBGT
*/
unsigned char reserver_default_off[32]; // 预留能力集默认关闭
unsigned char reserver_default_on[32]; // 预留能力集默认开启
}T SDK DEVICE ABILITY INFO2;
```



#### 【范例】

```
case SDKCMD_GET_DEVICE_ABILITY:
                    T SDK DEVICE ABILITY INFO *get param = NULL ;
                    T SDK DEVICE ABILITY INFO1 *get_param1 = NULL;
                    T SDK DEVICE ABILITY INFO2 *get param2 = NULL;
                    switch(SDK_DEVICE_ABILITY_VERSION)
                          case 0:
                                  get_param =
(T SDK DEVICE ABILITY INFO*)param;
                                 retcode = SDK Get Device Ability(get param);
                                  if(SDK SUCESS != retcode)
                                        Dbg_Trace(GOS_LOG_ERR,
"SDK Get Device Authentication ability0 FAILED!\n");
                                        return SDK_FAILUR;
                                 break;
                           case 1:
                                 get_param1 =
(T_SDK_DEVICE_ABILITY_INFO1*)param;
                                 retcode =
SDK_Get_Device_Ability1(get_param1);
                                  if (SDK SUCESS != retcode)
                                        Dbg Trace(GOS_LOG_ERR,
"SDK Get Device Authentication ability1 FAILED!\n");
                                        return SDK_FAILUR;
                                 break;
                           case 2:
                                 get param2 =
(T_SDK_DEVICE_ABILITY_INFO2*)param;
                                 retcode =
SDK_Get_Device_Ability2(get_param2);
                                 if(SDK_SUCESS != retcode)
                                        Dbg_Trace(GOS_LOG_ERR,
"SDK Get Device Authentication ability2 FAILED!\n");
                                        return SDK FAILUR;
                                 break;
                                 default:
                                        Dbg_Trace(GOS_LOG_ERR, "not support
this ability search version!\n");
                                        break;
```

## 5.1.16 SDKCMD\_SET\_LIGHT\_SWITCH

## 【描述】

设置灯开关。

#### 【参数】

param input.

## 【范例】

公开



## 5.1.17 SDKCMD\_GET\_LIGHT\_SWITCH

#### 【描述】

获取灯开关。

#### 【参数】

param\_output.

## 【范例】

```
case SDKCMD_GET_LIGHT_SWITCH:
{
    unsigned int *param_output = (unsigned int*)param;
    retcode = SDK_Get_Light_Switch(param_output);
    if(0 != retcode)
        return retcode;
    break;
}
```

## 5.1.18 SDKCMD\_SET\_LIGHT\_DURATION

#### 【描述】

设置灯照时长,包括手动开灯时长、触发亮灯时长。

#### 【参数】

```
typedef struct
{
    unsigned int un_trigger_time; //触发亮灯时间 pir / motion
    unsigned int un_manual_time; //手动开灯亮灯时间
    int n_reserve;
}T_SDK_DEVICE_LIGHT_DURATION;
```

## 【范例】

## 5.1.19 SDKCMD GET LIGHT DURATION

#### 【描述】

获取灯照时长,包括手动开灯时长、触发亮灯时长。

## 【参数】



```
typedef struct
{
    unsigned int un_trigger_time; //触发亮灯时间 pir / motion
    unsigned int un_manual_time; //手动开灯亮灯时间
    int n_reserve;
}T_SDK_DEVICE_LIGHT_DURATION;
```

#### 【范例】

## 5.1.20 SDKCMD\_SET\_LIGHT\_TIMING\_INFO

#### 【描述】

设置定时亮灯时间点(晚上开灯、早晨灭灯时间点,以及一周生效的天数)。

#### 【参数】

```
typedef struct

{
    unsigned int un_on_hour;
    unsigned int un_on_min;
    unsigned int un_off_hour;
    unsigned int un_off_min;
    unsigned int un_off_min;
    unsigned int un_wday_switch; //按 0~6位表示,第0位表示星期天,第1位表示星期一 0->关闭 1->打开
    int n_reserve;
}T_SDK_DEVICE_LIGHT_TIMING;//定时开灯时间点,开关
```

#### 【范例】

## 5.1.21 SDKCMD\_GET\_LIGHT\_TIMING\_INFO

#### 【描述】

获取定时亮灯时间点(晚上开灯、早晨灭灯时间点,以及一周生效的天数)。

公开



#### 【参数】

```
typedef struct

{
    unsigned int un_on_hour;
    unsigned int un_on_min;
    unsigned int un_off_hour;
    unsigned int un_off_min;
    unsigned int un_wday_switch; //按 0~6位表示,第0位表示星期天,第1位表示星期一 0->关闭 1->打开
    int n_reserve;
}T_SDK_DEVICE_LIGHT_TIMING;//定时开灯时间点,开关
```

#### 【范例】

#### 5.2 视频命令

此模块用于控制设置视频以及相关的参数,视频模块包括以下命令:

- ➤ SDKCMD\_SET\_VIDEO\_ENCODE\_DEFAULT\_PARAM: 设置视频默认参数
- ▶ SDKCMD\_REGISTER\_STREAM\_DATA\_CALLBACK: 视频码流数据获取的回调函数注册
- ▶ SDKCMD FORCE VIDEO ENCODE I FRAME: 强制获取I帧
- ▶ SDKCMD SET VIDEO ENCODE SWITCH: 设置视频编码开关
- ▶ SDKCMD\_SET\_VIDEO\_ENCODE\_RESOLUTION:设置视频编码分辨率
- ▶ SDKCMD\_SET\_VIDEO\_ENCODE\_I\_FRAME\_INTERVAL: 设置编码GOP
- ➤ SDKCMD\_SET\_VIDEO\_ENCODE\_BITRATE: 设置视频编码码率
- ➤ SDKCMD\_SET\_VIDEO\_ENCODE\_FRAMERATE: 设置视频帧率
- ▶ SDKCMD\_SET\_VIDEO\_ENCODE\_QUALITY: 设置视频图像质量
- ▶ SDKCMD\_SET\_VIDEO\_ENCODE\_LEVEL: 设置视频编码等级
- ➤ SDKCMD\_SET\_VIDEO\_ENCODE\_QP: 设置视频编码qp等级
- ▶ SDKCMD\_GET\_VIDEO\_ENCODE\_PARAM: 获取当前视频编码参数
- ▶ SDKCMD\_SET\_VIDEO\_ENCODE\_MIRROR: 设置翻转镜像的值
- ➤ SDKCMD\_GET\_VIDEO\_ENCODE\_MIRROR: 获取翻转镜像的值
- ➤ SDKCMD\_GET\_VIDEO\_ENCODE\_QUALITY: 获取当前视频质量





- ▶ SDKCMD\_SET\_CURR\_STREAM\_QUALITY: 设置当前码流质量
- ▶ SDKCMD\_GET\_CURR\_STREAM\_QUALITY: 获取当前码流质量
- ▶ SDKCMD\_SET\_SNAPSHOT\_QUALITY: 设置当前图像抓拍质量
- ▶ SDKCMD\_GET\_SNAPSHOT\_QUALITY: 获取当前图像抓拍质量

## 5.2.1 设置视频默认参数

```
命令: SDKCMD_SET_VIDEO_ENCODE_DEFAULT_PARAM
```

参数:无。

使用范例:

注意事项:无。

## 5.2.2 视频码流数据获取的回调函数注册

## 命令: SDKCMD\_REGISTER\_STREAM\_DATA\_CALLBACK

```
参数:
```

```
typedef int (*F SDK Stream Callback)(T SDK STREAM CALLBACK PARAM
*pt_encode_data);
typedef struct
F SDK Stream Callback fp callback;
unsigned int un video switch;
unsigned int un audio switch;
unsigned int un video channel;
unsigned int un audio channel;
      n reserve;
}T_CALLBACK_INFO;
typedef struct
T CALLBACK_INFO
                  ta callback info[4];
int n reserve;
}T SDK STREAM REGISTER CALLBACK;
使用范例:
```



```
if(0 != retcode)
          return retcode;
          break;
}
```

注意事项:无。

## 5.2.3 强制获取I帧

```
命令: SDKCMD_FORCE_VIDEO_ENCODE_I_FRAME
参数:
typedef struct
{
   unsigned int un_encode_channel_id;
   unsigned int un_force_num;
}T_SDK_FORCE_I_FARME;
```

使用范例:

注意事项:无。

typedef struct

## 5.2.4 设置视频编码开关

```
命令: SDKCMD_SET_VIDEO_ENCODE_SWITCH 参数:

typedef enum _E_VIDEO_ENCODER_TYPE

{
    E_VENC_NONE = 0x00,
    E_VENC_H264 = 0x01,
    E_VENC_MPEG4 = 0x02,
    E_VENC_MJPEG = 0x03,
    E_VENC_JPEG = 0x04,
}E_SDK_VIDEO_ENCODER_TYPE;
```



```
{
    unsigned int un_encode_channel_id;
    E_SDK_VIDEO_ENCODER_TYPE e_type;
}T_SDK_VIDEO_ENCODE_TYPE;
使用范例:
```

## 5.2.5 设置视频编码分辨率

```
命令: SDKCMD_SET_VIDEO_ENCODE_RESOLUTION
参数:
typedef struct
{
    unsigned int un_encode_channel_id;
    unsigned int un_width;
    unsigned int un_height;
}T_SDK_VIDEO_ENCODE_RESOLUTION;
使用范例:
```

注意事项:无。

## 5.2.6 设置编码GOP

```
命令: SDKCMD_SET_VIDEO_ENCODE_I_FRAME_INTERVAL
参数:
typedef struct
{
    unsigned int un_encode_channel_id;
    unsigned int un_interval;
```



公开



```
}T_SDK_VIDEO_ENCODE_I_FRAME_INTERVAL;
使用范例:
```

注意事项:无。

## 5.2.7 设置视频编码码率

## 命令: SDKCMD\_SET\_VIDEO\_ENCODE\_BITRATE

```
参数:

typedef struct
{
  unsigned int          un_encode_channel_id;
  unsigned int          un_bitrate_type; //value range (0: CBR; 1: VBR; 2: CBR keep quality; 3: VBR keep quality)
  unsigned int          un_average_bitrate;
  unsigned int          un_max_bitrate;
  unsigned int          un_min_bitrate;
}T_SDK_VIDEO_ENCODE_BITRATE;
使用范例:
```

注意事项:无

## 5.2.8 设置视频帧率

```
命令: SDKCMD_SET_VIDEO_ENCODE_FRAMERATE
参数:
typedef struct
{
   unsigned int un_encode_channel_id;
   unsigned int un_framerate;
}T SDK VIDEO ENCODE FRAMERATE;
```





使用范例:

注意事项:无。

## 5.2.9 设置视频图像质量

```
命令: SDKCMD_SET_VIDEO_ENCODE_QUALITY
参数:
typedef struct
{
  unsigned int un_encode_channel_id;
  unsigned int un_quality; //value range(0-5)
}T_SDK_VIDEO_ENCODE_QUALITY;
使用范例:
```

注意事项:无。

## 5.2.10 设置视频编码等级

```
命令: SDKCMD_SET_VIDEO_ENCODE_LEVEL
参数:
typedef struct
{
    unsigned int un_encode_channel_id;
    unsigned int un_profile; //value range of Encode level ( 0: baseline; 1:MP; 2:HP)
HiSilicon not permitted set it
}T_SDK_VIDEO_ENCODE_LEVEL;
```



使用范例:

注意事项:无。

## 5.2.11 设置视频编码qp等级

```
命令: SDKCMD_SET_VIDEO_ENCODE_QP
参数:
typedef struct
{
  unsigned int un_encode_channel_id;
  unsigned int un_l_frame_max_Qp;
  unsigned int un_l_frame_min_Qp;
  unsigned int un_P_frame_max_Qp;
  unsigned int un_P_frame_min_Qp;
}T_SDK_VIDEO_ENCODE_QP;
```

注意事项:无。

使用范例:

## 5.2.12 获取当前视频编码参数

```
命令: SDKCMD_GET_VIDEO_ENCODE_PARAM
参数:
typedef struct
{
    unsigned int un_encode_channel_id;  //(input Param)
    unsigned int un_encode_switch;  //value range(0:off 1:on)
    E_SDK_VIDEO_ENCODER_TYPE e_encode_type;
```



```
unsigned int
               un_width;
 unsigned int
               un height;
 unsigned int
               un_l_frame_interval;
 T_SDK_VIDEO_ENCODE_BITRATE t_bitrate;
 unsigned int
               un framerate;
 T_SDK_LOWER_BITRATE_CONTORL
                                            t_lower_bitrate_control;
                                                                         //only for
Ambarella
                              //value range(0-5)
 unsigned int
               un_quality;
                              //value range of Encode level (0: baseline; 1:MP; 2:HP)
 unsigned int
               un_profile;
HiSilicon not permitted set it
 T SDK VIDEO ENCODE QPt QP;
              un_mirro_type; //value range
 unsigned int
0:none,1:horizontal,2:vertical,3:horizonta+vertical
} T_SDK_VIDEO_ENCODE_PARAM;
使用范例:
```

注意事项:无。

## 5.2.13 设置翻转镜像的值

```
命令: SDKCMD_SET_VIDEO_ENCODE_MIRROR
参数:
```

\*param\_input: (0:none,1:horizontal,2:vertical,3:horizonta+vertical)

使用范例:

```
case SDKCMD_SET_VIDEO_ENCODE_MIRROR: //图像镜像翻转
{
    unsigned int *param_input = (unsigned int*)param;
    retcode = GOS_SDK_Set_ViMirrorMode(0, *param_input, 1);
    if(0 != retcode)
        return SDK_FAILUR;
    break;
}
```

注意事项:无。

## 5.2.14 获取翻转镜像的值



## 命令: SDKCMD\_GET\_VIDEO\_ENCODE\_MIRROR

参数:

\*param\_output: (0:none,1:horizontal,2:vertical,3:horizonta+vertical)

使用范例:

```
case SDKCMD GET VIDEO ENCODE MIRROR:
{
    unsigned int *param_output = (unsigned int*)param;
    retcode = GOS_SDK_Get_ViMirrorMode(0, param_output);
    if(0 != retcode)
        return SDK_FAILUR;
    break;
}
```

注意事项:无。

## 5.2.15 获取当前视频质量

```
命令: SDKCMD_GET_VIDEO_ENCODE_QUALITY
参数:
typedef struct
{
  unsigned int un_encode_channel_id;
  unsigned int un_quality; //value range(0-5)
}T_SDK_VIDEO_ENCODE_QUALITY;
使用范例:
```

注意事项:无。

使用范例:

## 5.2.16 设置当前码流质量

```
命令: SDKCMD_SET_CURR_STREAM_QUALITY
```

```
参数: *param_input:(高清:0, 标清:1)
```

```
case SDKCMD_SET_CURR_STREAM_QUALITY: //设置当前码流质量
{
    unsigned int *param_input = (unsigned int *)param;
    retcode = GOS_SDK_Set_CurrStream_Quality(param_input);
    if(0 != retcode)
        return retcode;
    break;
}
```



注意事项:无。

## 5.2.17 获取当前码流质量

```
命令: SDKCMD_GET_CURR_STREAM_QUALITY
```

```
参数: *param_output:(高清:0, 标清:1)
```

使用范例:

```
case SDKCMD_GET_CURR_STREAM_QUALITY: //获取当前码流质量

{
    unsigned int *param_output = (unsigned int *)param;
    retcode = GOS_SDK_Get_CurrStream_Quality(param_output);
    if(0 != retcode)
        return retcode;
    break;
}
```

注意事项:无。

## 5.2.18 设置当前图像抓拍质量

```
命令: SDKCMD_SET_SNAPSHOT_QUALITY
```

参数: param\_input。

使用范例:

```
case SDKCMD_SET_SNAPSHOT_QUALITY: //设置抓拍分辨率(0主码流 1次码流)
{
    unsigned int *param_input = (unsigned int *)param;
    retcode = GOS_SDK_SetSnapQuality(param_input);
    if(0 != retcode)
        return retcode;
    break;
}
```

注意事项:无。

## 5.2.19 获取当前图像抓拍质量

```
命令: SDKCMD_GET_SNAPSHOT_QUALITY
```

参数: param output。

使用范例:

```
case SDKCMD_GET_SNAPSHOT_QUALITY: //获取抓拍分辨率(0主码流 1次码流)
{
    unsigned int *param_output = (unsigned int *)param;
    retcode = GOS_SDK_GetSnapQuality(param_output);
    if(0 != retcode)
        return retcode;
    break;
}
```

注意事项:无。

## 5.3 音频命令

此模块用于控制设置音频以及相关的参数,音频模块包括以下命令:

- ➤ SDKCMD\_GET\_AUDIO\_ENCODE\_PARAM: 获取音频配置参数
- ▶ SDKCMD\_SET\_AUDIO\_ENCODE\_SWITCH: 设置音频编码开关





- ▶ SDKCMD SET SOUND MODE:设置音频通道类型
- ▶ SDKCMD\_SET\_AUDIO\_ENCODE\_TYPE: 设置音频编码类型
- ▶ SDKCMD\_SET\_AUDIO\_ENCODE\_BITRATE: 设置音频编码比特率
- ▶ SDKCMD\_SET\_AUDIO\_ENCODE\_SAMPLERATE:设置音频编码采样率
- ▶ SDKCMD\_SET\_AUDIO\_INPUT\_VOLUME: 设置音频编码输入声音大小
- ▶ SDKCMD\_SET\_AUDIO\_OUTPUT\_VOLUME: 设置音频编码输出声音大小
- ▶ SDKCMD\_SET\_AUDIO\_MIC\_LINE:设置音频编码输出声音输入模式
- ▶ SDKCMD\_SET\_AUDIO\_ECHO\_CANCELL:设置音频编码回音消除
- ▶ SDKCMD\_SET\_INTERCOM\_PARAM: 设置音频对讲参数
- ▶ SDKCMD\_INTERCOM\_START: 音频对讲开启
- ▶ SDKCMD\_INTERCOM\_STOP: 音频对讲关闭
- ▶ SDKCMD\_SEND\_INTERCOM\_DATA:传输音频对讲数据

## 5.3.1 获取音频配置参数

## 命令: SDKCMD\_GET\_AUDIO\_ENCODE\_PARAM

```
参数:
```

```
typedef enum _E_AUDIO_ENCODE_TYPE
E AENC NONE = 0 \times 0,
E AENC G726 = 0 \times 01,
E_AENC_G722 = 0x02,
E AENC G711A
                = 0x03,
E AENC ADPCM
                = 0x04,
E AENC MP3 = 0 \times 05,
E AENC PCM = 0 \times 06,
E AENC G711U
                  = 0x07,
E AENC AACLC
                  = 0x08,
E AENC AMRNB
                  = 0x09,
E AENC PTAAC
                  = 0x25,
}E SDK AUDIO ENCODE TYPE;
typedef struct
unsigned int
                un encode switch;
unsigned int un sound mode; //value range of
soud mode(0:single 1:stereo)
unsigned int
                 un mic line input; //value range(0: mic input
1:line input)
                              e encode_type;
E_SDK_AUDIO_ENCODE_TYPE
unsigned int un audio echo canell switch; //(1:on 0:off)
unsigned int
                  un bitrate;
unsigned int
                  un sample rate;
unsigned int
                  un input volume;
unsigned int
                  un output volume;
} T_SDK_AUDIO_ENCODE_PARAM;
```



使用范例:

注意事项:无。

## 5.3.2 设置音频编码开关

## 命令: SDKCMD\_SET\_AUDIO\_ENCODE\_SWITCH

```
参数: *param_input: (0:stop 1:start)
```

```
case SDKCMD_SET_AUDIO_ENCODE_SWITCH://设置音频开关

{
    unsigned int *param_input = (unsigned int *)param;
    retcode =

GOS_SDK_AENC_SetAENCParam_un_switch(param_input);
    if(0 != retcode)
        return retcode;
    break;
}
```

注意事项:无。

使用范例:

## 5.3.3 设置音频通道类型

## 命令: SDKCMD\_SET\_SOUND\_MODE

参数: param\_input。

使用范例:

```
case SDKCMD_SET_SOUND_MODE://设置音频声道模式
{
    unsigned int *param_input = (unsigned int *)param;
    retcode =

GOS_SDK_AENC_SetAENCParam_sound_mode(param_input);
    if(0 != retcode)
        return retcode;
    break;
}
```

注意事项:无。

## 5.3.4 设置音频编码类型

命令: SDKCMD\_SET\_AUDIO\_ENCODE\_TYPE 参数:

AUDIO\_ENCODER\_E EncType



Sdk接口 公开



使用范例:

```
case SDKCMD SET AUDIO ENCODE TYPE://设置音频编码类型
          unsigned int *param input = (unsigned int *)param;
          retcode = GOS_AI_Setenc_type(param_input);
          if(0 != retcode)
              return retcode;
          break;
```

注意事项:无。

#### 设置音频编码比特率 5.3.5

命令: SDKCMD\_SET\_AUDIO\_ENCODE\_BITRATE

参数: unsigned int bit\_rate

使用范例:

```
case SDKCMD SET AUDIO ENCODE BITRATE://设置音频码率
            unsigned int *param input = (unsigned int *)param;
            retcode = GOS AI Setbitrate (param input);
            if(0 != retcode)
                return retcode;
           break;
```

注意事项:无。

#### 5.3.6 设置音频编码采样率

命令: SDKCMD\_SET\_AUDIO\_ENCODE\_SAMPLERATE

参数: unsigned int sample\_rate

使用范例:

```
case SDKCMD_SET_AUDIO_ENCODE_SAMPLERATE://设置音频采样率
           unsigned int *param_input = (unsigned int *)param;
           retcode =
GOS_SDK_AENC_SetAENCParam_sample_rate(param_input);
            if(0 != retcode)
               return retcode;
           break;
```

注意事项:无。

#### 5.3.7 设置音频编码输入声音大小

命令: SDKCMD\_SET\_AUDIO\_INPUT\_VOLUME

参数: unsigned int input\_vol





使用范例:

```
case SDKCMD_SET_AUDIO_INPUT_VOLUME ://设置音频音量输入大小
{
    unsigned int *param_input = (unsigned int *)param;
    retcode = GOS_AI_SetInVol(param_input);
    if(0 != retcode)
        return retcode;
    break;
}
```

注意事项:无。

## 5.3.8 设置音频编码输出声音大小

命令: SDKCMD\_SET\_AUDIO\_OUTPUT\_VOLUME

参数: unsigned int output\_vol

使用范例:

```
case SDKCMD_SET_AUDIO_OUTPUT_VOLUME ://设置音频音量输出声音大小
{
    unsigned int *param_input = (unsigned int *)param;
    retcode = GOS_AO_SetOutVol(param_input);
    if(0 != retcode)
        return retcode;
    break;
}
```

注意事项:无。

## 5.3.9 设置音频音量输出模式

命令: SDKCMD\_SET\_AUDIO\_MIC\_LINE

参数: unsigned int mic\_line\_input

使用范例:

```
case SDKCMD_SET_AUDIO_MIC_LINE://设置音频音量输出模式
{
    unsigned int *param_input = (unsigned int *)param;
    retcode = GOS_AI_Setmic_line_input(param_input);
    if(0 != retcode)
        return retcode;
    break;
}
```

注意事项:无。

## 5.3.10 设置音频编码回音消除

命令: SDKCMD\_SET\_AUDIO\_ECHO\_CANCELL

参数: unsigned int AEC

使用范例:

```
case SDKCMD_SET_AUDIO_ECHO_CANCELL://设置音频回音消除 {
```



#### 5.3.11 设置音频对讲参数

命令: SDKCMD\_SET\_INTERCOM\_PARAM

参数:无。

使用范例:

```
case SDKCMD_SET_INTERCOM_PARAM: //设置音频对讲参数
{
    return SDK_SUCESS;
    break;
}
```

注意事项:无。

### 5.3.12 音频对讲开启

命令: SDKCMD\_INTERCOM\_START 参数: 无。 使用范例:

```
case SDKCMD_INTERCOM_START: //开启音频对讲
{
    GOS_intercome_start();
    return SDK_SUCESS;
    break;
}
```

注意事项:无。

### 5.3.13 音频对讲关闭

命令: SDKCMD\_INTERCOM\_STOP 参数: 无。 使用范例:

```
case SDKCMD_INTERCOM_STOP: //关闭对讲
{
         GOS_intercome_stop();
         return SDK_SUCESS;
         break;
}
```

注意事项:无。

### 5.3.14 传输音频对讲数据

命令: SDKCMD\_SEND\_INTERCOM\_DATA



```
参数:
typedef struct
{
  unsigned char* cp_data;
  unsigned int un_data_len;
} T_SDK_INTERCOM_DATA;
使用范例:
```

#### 5.4 Sensor命令

Sensor模块包括以下命令:

- ▶ SDKCMD\_SET\_SENSOR\_DEFAULT\_PARAM: 设置SENSOR默认参数
- ▶ SDKCMD\_SET\_SENSOR\_SHARP: 设置输出图像 锐度
- ▶ SDKCMD\_SET\_SENSOR\_BRIGHTNESS: 设置输出图像 亮度
- ▶ SDKCMD SET SENSOR CONTRAST: 设置输出图像 对比度
- ▶ SDKCMD\_SET\_SENSOR\_HUE: 设置输出图像 色度
- ▶ SDKCMD\_SET\_SENSOR\_SATURATION: 设置输出图像 饱和度
- ➤ SDKCMD\_GET\_SENSOR\_NIGHT\_DAY\_STATUE: 获取当前光敏电阻状态
- ▶ SDKCMD\_SET\_SENSOR\_GAMMA\_LEVEL: 设置当前的GAMMA
- ▶ SDKCMD\_SET\_SENSOR\_SHADING\_SWITCH: 设定暗角补偿属性。
- ▶ SDKCMD\_GET\_SENSOR\_NTSC\_PAL: 获取当前视频制式
- ▶ SDKCMD SET SENSOR NTSC PAL: 设置当前视频制式
- ➤ SDKCMD\_GET\_SENSOR\_AUTO\_EXPOSURE: 获取AE
- ➤ SDKCMD\_SET\_SENSOR\_AUTO\_EXPOSURE: 设定AE
- ➤ SDKCMD\_SET\_SENSOR\_3D: 设定3D降噪

#### 5.4.1 设置输出图像 锐度

```
命令: SDKCMD_SET_SENSOR_SHARP
参数:
typedef struct
{
  unsigned int una_sharp[4]; //value range(0-100)
```



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### }T\_SDK\_SENSOR\_SHARP;

使用范例:

```
case SDKCMD SET SENSOR SHARP://设置输出锐度
           T SDK SENSOR SHARP *param input =
(T SDK SENSOR SHARP*) param;
           retcode = GOS SDK VPSS SetChnSpParam(param input);
           if(0 != retcode)
               return SDK FAILUR;
          break;
```

注意事项:无。

#### 5.4.2 设置输出图像 亮度

命令: SDKCMD\_SET\_SENSOR\_BRIGHTNESS

参数: int BRIGHTNESS // (值0~100)

使用范例:

```
case SDKCMD SET SENSOR BRIGHTNESS://设置输出图像亮度
    unsigned int*param input = (unsigned int*)param;
    retcode = GOS_SDK_Vi_Set_CSC_Brightness(*param_input);
    if(0 != retcode)
        return SDK_FAILUR;
   break;
```

注意事项:无。

### 设置输出图像 对比度

命令: SDKCMD\_SET\_SENSOR\_CONTRAST

参数: int CONTRAST; // (值0~100)

使用范例:

```
case SDKCMD SET SENSOR CONTRAST:
   unsigned int*param_input = (unsigned int*)param;
    retcode = GOS_SDK_Vi_Set_CSC_Contrast(*param_input);
    if(0 != retcode)
        return SDK FAILUR;
   break;
```

注意事项:无。

#### 5.4.4 设置输出图像 色度

命令: SDKCMD\_SET\_SENSOR\_HUE

参数: int HUE; // (值0~100)

使用范例:



Sdk接口 公开



```
case SDKCMD SET SENSOR HUE://设置输出图像色度
{
    unsigned int*param input = (unsigned int*)param;
    retcode = GOS_SDK_Vi_Set_CSC_Hue(*param_input);
    if(0 != retcode)
        return SDK FAILUR;
```

注意事项:无。

#### 5.4.5 设置输出图像 饱和度

命令: SDKCMD\_SET\_SENSOR\_SATURATION

参数: int SATURATION; //(值0~100)

使用范例:

```
case SDKCMD_SET_SENSOR_SATURATION://设置输出图像饱和度
unsigned int*param_input = (unsigned int*)param;
retcode = GOS SDK Vi Set CSC Satu(*param input);
if(0 != retcode)
    return SDK FAILUR;
break;
```

注意事项:无。

#### 获取当前光敏电阻状态 5.4.6

命令: SDKCMD\_GET\_SENSOR\_NIGHT\_DAY\_STATUE

参数: unsigned int ircut //值 0-1 0:day 1:night

使用范例:

```
case SDKCMD_GET_SENSOR_NIGHT_DAY_STATUE://获取当前光敏电阻状态
unsigned int*param output = (unsigned int*)param;
retcode = GOS_SDK_Vi_Get_Ircut(param_output);
if(0 != retcode)
    return SDK FAILUR;
break;
```

注意事项: (gd5700不支持)

#### 5.4.7 设置当前的GAMMA

命令: SDKCMD\_SET\_SENSOR\_GAMMA\_LEVEL

参数: unsigned int GAMMA //值 0-9

使用范例:

```
case SDKCMD_SET_SENSOR_GAMMA_LEVEL://设置当前的GAMMA
unsigned int*param_input = (unsigned int*)param;
retcode = GOS_SDK_ISP_SetGammaTable(*param_input);
if(0 != retcode)
    return SDK FAILUR;
break;
```



注意事项: (gd5700不支持)

### 5.4.8 设定暗角补偿属性。

命令: SDKCMD\_SET\_SENSOR\_SHADING\_SWITCH

参数: unsigned int bool //值 0-1

使用范例:

```
case SDKCMD_SET_SENSOR_SHADING_SWITCH://设置当前的暗角补偿属性

{
    unsigned int*param_input = (unsigned int*)param;
    retcode = GOS_SDK_ISP_SetShading(param_input);
    if(0 != retcode)
        return SDK_FAILUR;
    break;
}
```

注意事项: (gd5700不支持)

# 5.4.9 设置当前视频制式

命令: SDKCMD\_SET\_SENSOR\_NTSC\_PAL

参数: unsigned int power //值 50 60

使用范例:

```
case SDKCMD_SET_SENSOR_NTSC_PAL://设置当前视频制式 N:30 P:25
{
    unsigned int *param_input = (unsigned int*)param;
    retcode = GOS_SDK_VI_Set_Frame(*param_input);
    if(0 != retcode)
        return SDK_FAILUR;

    break;
}
```

注意事项: (gd5700不支持)

#### 5.4.10 获取当前视频制式

命令: SDKCMD\_SET\_SENSOR\_NTSC\_PAL

参数: \*param //值 50 60

使用范例:

```
case SDKCMD_GET_SENSOR_NTSC_PAL://获取当前视频制式 N:30 P:25
{
    unsigned int *param_input = (unsigned int*)param;
    retcode = GOS_SDK_VI_Get_Frame(param_input);
    if(0 != retcode)
        return SDK_FAILUR;

    break;
}
```

注意事项: (gd5700不支持)

#### 5.4.11 获取AE

命令: SDKCMD\_GET\_SENSOR\_AUTO\_EXPOSURE



```
参数:
  typedef struct
    unsigned int un_encode_AE_mode;
    unsigned int un_ExpTimeMax;
    unsigned int un_ExpTimeMin;
    unsigned int un_DGainMax;
    unsigned int un_DGainMin;
    unsigned int un_AGainMax;
    unsigned int un_AGainMin;
    unsigned int un_ISPDGainMax;
   unsigned int un_SystemGainMax;
   unsigned int un_GainThreshold;
   unsigned char uc_ExpStep;
   short s_ExpTolerance;
   unsigned char uc_ExpCompensation;
   unsigned short us_EVBias;
   unsigned int
                un_AEStrategyMode;
   unsigned char uc_MaxHistOffset;
   unsigned short us_HistRatioSlope;
   unsigned int
               un_FrameEndUpdateMode;
                un_ByPassAE;
   unsigned int
  }T_SDK_SENSOR_AUTO_EXPOSURE;
  使用范例:
                 case SDKCMD_GET_SENSOR_AUTO_EXPOSURE://获取AE
                   T SDK SENSOR AUTO EXPOSURE*param output =
        (T_SDK_SENSOR_AUTO_EXPOSURE*)param;
                   memset(param_output,0,sizeof(T_SDK_SENSOR AUTO EXPOSURE));
                   retcode = GOS SDK ISP GetAEAttrEx(param output);
                   if(0 != retcode)
                       return SDK_FAILUR;
                  break;
  注意事项: (gd5700不支持)
5.4.12 设定AE
  命令: SDKCMD_SET_SENSOR_AUTO_EXPOSURE
  参数:
 typedef struct
```

unsigned int un\_encode\_AE\_mode;





```
unsigned int un_ExpTimeMax;
    unsigned int un ExpTimeMin;
    unsigned int un_DGainMax;
    unsigned int un_DGainMin;
    unsigned int un_AGainMax;
    unsigned int un AGainMin;
    unsigned int un_ISPDGainMax;
   unsigned int
                un_SystemGainMax;
   unsigned int
                un_GainThreshold;
   unsigned char uc_ExpStep;
   short s_ExpTolerance;
   unsigned char uc_ExpCompensation;
   unsigned short us_EVBias;
   unsigned int
                un_AEStrategyMode;
   unsigned char uc_MaxHistOffset;
   unsigned short us_HistRatioSlope;
                un_FrameEndUpdateMode;
   unsigned int
   unsigned int
                un_ByPassAE;
  }T_SDK_SENSOR_AUTO_EXPOSURE;
  使用范例:
            case SDKCMD SET SENSOR AUTO EXPOSURE://设置AE
                   T_SDK_SENSOR_AUTO_EXPOSURE*param_input =
       (T_SDK_SENSOR_AUTO_EXPOSURE*) param;
                   retcode = GOS SDK ISP SetAEAttrEx(param input);
                   if(0 != retcode)
                       return SDK FAILUR;
                  break;
  注意事项: (gd5700不支持)
5.4.13 设定3D降噪
  命令: SDKCMD_SET_SENSOR_3D
  参数:
  typedef struct
    unsigned int un_space_denoise;
```

unsigned int un\_time\_denoise; unsigned int un\_chroma\_range;

}T\_SDK\_SENSOR\_3D;

使用范例:



```
case SDKCMD_SET_SENSOR_3D://3D 降 噪

{
    T_SDK_SENSOR_3D*param_input = (T_SDK_SENSOR_3D*)param;
    retcode = GOS_SDK_Set_VPSS_3DNr(param_input-
>un_chroma_range,param_input->un_space_denoise,param_input-
>un_time_denoise);
    if(0 != retcode)
        return SDK_FAILUR;
    break;
}
```

注意事项: (gd5700不支持)

#### 5.5 Alarm命令

Alarm模块包括以下命令:

- ▶ SDKCMD\_RIGISTER\_ALARM\_CALLBACK: 设置告警回调函数
- ➤ SDKCMD GET ALARM PARAM: 获取报警参数
- ▶ SDKCMD\_SET\_PIR\_ALARM\_PARAM: 设置告警PIR类型开关
- ➤ SDKCMD\_SET\_MOTION\_ALARM\_PARAM: 设置移动侦测
- ➤ SDKCMD\_SET\_AUDIO\_ALARM\_PARAM: 设置音频侦测
- ➤ SDKCMD\_GET\_AUDIO\_ALARM\_PARAM: 获取音频侦测参数
- ▶ SDKCMD\_SET\_DOORBELL\_ALARM\_PARAM: 设置门铃报警参数
- ▶ SDKCMD\_SET\_IO\_ALARM\_PARAM: 设置IO□报警参数
- ▶ SDKCMD SET ONEKEY ALARM CONTROL PARAM: 设置IPC一键布防的参数
- ➤ SDKCMD\_GET\_ONEKEY\_ALARM\_CONTROL\_PARAM: 获取IPC一键布防的参数
- ▶ SDKCMD\_SET\_ALARM\_RING\_PARAM:设置IPC报警铃声的参数
- ▶ SDKCMD GET ALARM RING PARAM: 获取IPC报警铃声的参数
- ▶ SDKCMD\_PLAY\_ALARM\_RING\_START: 开始播放报警铃声
- ▶ SDKCMD PLAY ALARM RING STOP: 停止播放报警铃声
- ▶ SDKCMD SET TEMPERATURE ALARM PARAM: 设置温度报警参数
- ➤ SDKCMD\_GET\_TEMPERATURE\_ALARM\_PARAM: 获取温度报警参数
- ▶ SDKCMD\_SET\_HUMIDITY\_ALARM\_PARAM:设置湿度报警参数
- ▶ SDKCMD GET HUMIDITY ALARM PARAM: 获取湿度报警参数
- ▶ SDKCMD\_SET\_WBGT\_ALARM\_PARAM: 设置WBGT 报警参数
- ▶ SDKCMD GET WBGT ALARM PARAM: 获取WBGT 报警参数
- ▶ SDKCMD\_SET\_TEMP\_HUM\_WBGT\_ALARM\_PARAM: 设置温湿度加wbgt报警参数
- ➤ SDKCMD\_GET\_TEMP\_HUM\_WBGT\_ALARM\_PARAM: 获取温湿度加wbgt报警参数

#### 5.5.1 设置告警回调函数

命令: SDKCMD\_RIGISTER\_ALARM\_CALLBACK 参数:

公开



```
typedef struct
{
    F_SDK_Alarm_Callback fp_callbak;
    int n_reserve;
}T_SDK_ALARM_REGISTER_CALLBACK;
使用范例:
```

注意事项:无。

#### 5.5.2 获取报警参数

命令: SDKCMD\_GET\_ALARM\_PARAM

```
参数:
```

```
typedef enum {
 AM MD ALGO MSE
                 = (0x01 << 0),
 AM MD ALGO MOG2 = (0x01 << 1),
 AM MD ALGO HYBRID= AM MD ALGO MSE | AM MD ALGO MOG2,
                = 2,
 AM_MD_ALGO_NUM
} E SDK VIDEO MOTION ALGO;
typedef struct {
  unsigned int
                 un start x;
  unsigned int
               un start y;
  unsigned int
               un width;
  unsigned int
                  un height;
  unsigned int
                  c switch;
                                          //value range(1 ~100), 移动侦测
                  c sensitivity;
  unsigned int
等级阀值,值越小,灵敏度越高。1(max) ~ 100(min): (关: 100, 低: 90 中: 60 高:
30)
           s threshold; //when below threshold, not considered as
motion; else, trigger motion
}T SDK VIDEO MOTION SINGEL;
typedef struct
E SDK VIDEO MOTION ALGO e algo type; //AM MD ALGO MSE or AM MD ALGO MOG2
T_SDK_VIDEO_MOTION_SINGEL t_video_motion_rect; //手动划分时只划分一个区域坐标
unsigned int un mode;
                       // 手动划分坐标0 or 自动多分屏坐标1
unsigned int un submode; //多分屏下1x1=0, 2x2=1, 3x3=2, 4x4=3
unsigned int un enable; //根据多分屏模式下选择区域是否使能最多4x4=16;
}T_SDK_VIDEO_MOTION_ALARM;
typedef struct
{
```



```
unsigned intun switch;
unsigned intun sensitivity; //PIR侦测等级(1-10), 值越小, 灵敏度越高 (低: 8,
中: 5, 高: 2)
}T_SDK_PIR_ALARM;
                        //(only for HiSilicon)
typedef struct
unsigned intun switch;
unsigned intun_sensitivity;
                       //(only for HiSilicon)
}T SDK DOORBELL ALARM;
typedef struct
unsigned intun switch;
unsigned intun sensitivity;
}T_SDK_AUDIO_ALARM;
typedef struct
unsigned intun switch;
unsigned intun sensitivity;
}T SDK SHELTER ALARM;
                        //(not support yet)
typedef struct
unsigned intun switch;
unsigned intun sensitivity;
}T_SDK_IO_ALARM;
typedef struct
T_SDK_VIDEO_MOTION_ALARMt_motion;
 T SDK PIR ALARM t PRI; // (only for HiSilicon)
   T_SDK_DOORBELL_ALARM t_doorbell; //(only for HiSilicon)
T SDK AUDIO ALARM t audio;
 T SDK SHELTER ALARM
                        t shelter; //(not support yet)
   T SDK IO ALARM t IO;
}T_SDK_ALARM_PARAM;
使用范例:
               case SDKCMD GET ALARM PARAM:
```

### 5.5.3 设置告警PIR类型开关

命令: SDKCMD\_SET\_PIR\_ALARM\_PARAM



```
参数:
  typedef struct
   unsigned int
               un_switch;
               un_sensitivity; //PIR侦测等级(1-10), 值越小, 灵敏度越高 (低: 8, 中: 5, 高: 2)
   unsigned int
  }T_SDK_PIR_ALARM;
                         //(only for HiSilicon)
  使用范例:
              case SDKCMD_SET_PIR_ALARM_PARAM://设置PIR告警回调参数
                  T SDK PIR ALARM *param input = (T SDK PIR ALARM* )param;
                  retcode = GOS_SDK_Set_Alarm_Pir_Param(param_input);
                  if(0 != retcode)
                      return SDK FAILUR;
                  break;
  注意事项: (gd5700不支持)
5.5.4
      设置移动侦测
  命令: SDKCMD_SET_MOTION_ALARM_PARAM
  参数:
  typedef struct {
   unsigned int un_start_x;
   unsigned int un_start_y;
   unsigned int un_width;
   unsigned int un_height;
   unsigned int c_switch;
                                   //value range(1~100), 移动侦测等级阀值,值越小,灵
   unsigned int c_sensitivity;
  敏度越高。1(max)~100(min): (关: 100, 低: 90 中: 60 高: 30)
                      //when below threshold, not considered as motion; else, trigger
   short s_threshold;
  motion
 }T_SDK_VIDEO_MOTION_SINGEL;
  typedef enum {
  AM MD ALGO MSE = (0x01 << 0),
                            = (0x01 << 1),
  AM_MD_ALGO_MOG2
  AM_MD_ALGO_HYBRID
                            = AM_MD_ALGO_MSE | AM_MD_ALGO_MOG2,
  AM_MD_ALGO_NUM = 2,
  } E_SDK_VIDEO_MOTION_ALGO;
 typedef struct
   E_SDK_VIDEO_MOTION_ALGO e_algo_type;
                                               //AM_MD_ALGO_MSE or
  AM_MD_ALGO_MOG2
```

unsigned int un\_mode; // 手动划分坐标0 or 自动多分屏坐标1

T\_SDK\_VIDEO\_MOTION\_SINGEL t\_video\_motion\_rect; //手动划分时只划分一个区域坐标





unsigned int un\_submode; //多分屏下1x1=0, 2x2=1, 3x3=2, 4x4=3 unsigned int un\_enable;//根据多分屏模式下选择区域是否使能最多4x4=16; }T\_SDK\_VIDEO\_MOTION\_ALARM; 使用范例:

注意事项:无。

#### 5.5.5 设置音频侦测

```
命令: SDKCMD_SET_AUDIO_ALARM_PARAM
参数:
typedef struct
{
  unsigned int un_switch;
  unsigned int un_sensitivity;
}T_SDK_AUDIO_ALARM;
```

注意事项:无。

使用范例:

使用范例:

### 5.5.6 获取音频侦测

```
命令: SDKCMD_GET_AUDIO_ALARM_PARAM
参数:
typedef struct
{
  unsigned int un_switch;
  unsigned int un_sensitivity;
}T_SDK_AUDIO_ALARM;
```

```
case SDKCMD_GET_AUDIO_ALARM_PARAM://获取音频告警回调参数
{
    T_SDK_AUDIO_ALARM *param_input = (T_SDK_AUDIO_ALARM*)param;
```

公开



```
retcode = GOS_SDK_Get_Alarm_Audio_Param(param_input);
if(0 != retcode)
    return SDK_FAILUR;
    break;
}
```

注意事项:无。

#### 5.5.7 设置门铃报警参数

```
参数:

typedef struct
{

unsigned int un_switch;

unsigned int un_sensitivity;

}T_SDK_DOORBELL_ALARM; //(only for HiSilicon)
使用范例:
```

命令: SDKCMD\_SET\_DOORBELL\_ALARM\_PARAM

注意事项:无。

#### 5.5.8 设置IO口报警参数

```
命令: SDKCMD_SET_IO_ALARM_PARAM
```

```
参数:
```

使用范例:

```
typedef struct
{
    unsigned int un_switch;
    unsigned int un_sensitivity;
}T_SDK_IO_ALARM;
```

```
case SDKCMD_SET_IO_ALARM_PARAM://设置IO回调参数 探头报警

T_SDK_IO_ALARM *param_input = (T_SDK_IO_ALARM*)param;
retcode = GOS_SDK_Set_Alarm_Io_Param(param_input);
if(0 != retcode)
return SDK_FAILUR;
break;
}
```



# 5.5.9 设置IPC一键布防的参数

```
参数:
typedef struct
unsigned int
                  un switch;
unsigned int
                   reserved[3];
}T SDK ONEKEY ALARM CONTROL;
使用范例:
      case SDKCMD SET ONEKEY ALARM CONTROL PARAM:
            T SDK ONEKEY ALARM CONTROL *param input =
      (T SDK ONEKEY ALARM CONTROL* ) param;
            retcode =
      GOS_SDK_Set_OneKey_Alarm_Control_Param(param_input
      );
             if(0 != retcode)
                  return SDK_FAILUR;
            break;
```

命令: SDKCMD\_SET\_ONEKEY\_ALARM\_CONTROL\_PARAM

注意事项:无。

# 5.5.10 获取IPC一键布防的参数

```
SDKCMD_GET_ONEKEY_ALARM_CONTROL_PARAM
参数:
typedef struct
unsigned int
                un switch;
unsigned int
                 reserved[3];
}T SDK ONEKEY ALARM CONTROL;
使用范例:
```

```
case SDKCMD GET ONEKEY ALARM CONTROL PARAM:
                    T SDK ONEKEY ALARM CONTROL *param output =
(T SDK ONEKEY ALARM CONTROL* ) param;
            {\tt memset(param\ output,\ 0,\ sizeof(T\ SDK\ ONEKEY\ ALARM\ CONTROL));}
            retcode = GOS SDK Get OneKey Alarm Control Param(param output);
            if(0 != retcode)
                return SDK FAILUR;
                    break;
```

注意事项:无。



# 5.5.11 设置IPC报警铃声的参数

```
命令: SDKCMD_SET_ALARM_RING_PARAM
参数:

typedef struct
{
  unsigned int alarm_ring_no;
  unsigned int reserved[3];
}T_SDK_ALARM_RING_PARAM;
使用范例:
```

注意事项:无。

#### 5.5.12 获取IPC报警铃声的参数

```
命令: SDKCMD_GET_ALARM_RING_PARAM
参数:
typedef struct
```

unsigned int alarm\_ring\_no;
unsigned int reserved[3];

}T\_SDK\_ALARM\_RING\_PARAM;

使用范例:

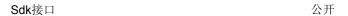
```
case SDKCMD_GET_ALARM_RING_PARAM:
{
    T_SDK_ALARM_RING_PARAM *param_output =
    (T_SDK_ALARM_RING_PARAM* )param;
    retcode = GOS_SDK_Get_Alarm_Ring_Param(param_output);
    if(0 != retcode)
        return SDK_FAILUR;
    break;
}
```

注意事项:无。

#### 5.5.13 开始播放报警铃声

命令: SDKCMD\_PLAY\_ALARM\_RING\_START

参数:无。





使用范例:

```
case SDKCMD_PLAY_ALARM_RING_START:

{
    retcode = GOS_SDK_Play_Alarm_Ring();
    if(0 != retcode)
        return SDK_FAILUR;
    break;
}
```

注意事项:无。

#### 5.5.14 停止播放报警铃声

```
命令: SDKCMD_PLAY_ALARM_RING_STOP
```

参数:无。

使用范例:

```
case SDKCMD PLAY ALARM RING STOP:
{
    retcode = GOS_SDK_Stop_Play_Alarm_Ring();
    if(0 != retcode)
        return SDK_FAILUR;
    break;
}
```

注意事项:无。

#### 5.5.15 设置温度报警参数

```
命令: SDKCMD_SET_TEMPERATURE_ALARM_PARAM
参数:
typedef struct
                                    //上下限温度报警开关, 0:上下限全
unsigned int alarm enale;
部关闭, 1:上限开启,下限关闭,2:上限关闭,下限开启,3:上下限全部开启
                                    //温度表示类型, 0:表示摄氏温
unsigned int temperature_type;
度.C, 1; 表示华氏温度.F
double curr temperature value;
                                    //当前温度
                                          //上限报警温度
double max alarm value;
                                          //下限报警温度
double min_alarm_value;
unsigned char reserved[16];
                                     //
}T SDK TEMPERATURE ALARM PARAM;
使用范例:
          case SDKCMD SET TEMPERATURE ALARM PARAM:
```

```
T_SDK_TEMPERATURE_ALARM_PARAM *param_input =

(T_SDK_TEMPERATURE_ALARM_PARAM* ) param;
```



### 5.5.16 获取温度报警参数

```
命令: SDKCMD_GET_TEMPERATURE_ALARM_PARAM
参数:
typedef struct
                                       //上下限温度报警开关, 0:上下限全
unsigned int alarm enale;
部关闭, 1:上限开启,下限关闭,2:上限关闭,下限开启,3:上下限全部开启
                                       //温度表示类型, 0:表示摄氏温
unsigned int temperature type;
度.C, 1; 表示华氏温度.F
double curr_temperature_value;
                               //当前温度
                                             //上限报警温度
double max_alarm_value;
                                             //下限报警温度
double min alarm value;
                                        //
unsigned char reserved[16];
}T SDK TEMPERATURE ALARM PARAM;
使用范例:
          case SDKCMD GET TEMPERATURE ALARM PARAM:
             T SDK TEMPERATURE ALARM PARAM *param output =
    (T_SDK_TEMPERATURE_ALARM_PARAM* )param;
              memset(param output, 0,
    sizeof(T_SDK_TEMPERATURE_ALARM_PARAM));
              retcode =
    GOS_SDK_Get_Temperature_Alarm_Param(param_output);
              if(0 != retcode)
                 return SDK FAILUR;
```

注意事项:无。

#### 5.5.17 设置湿度报警参数

break;

```
命令: SDKCMD_SET_HUMIDITY_ALARM_PARAM 参数:

typedef struct
{

unsigned int alarm_enale; //上下限湿度报警开关, 0:上下限全
```

公开



```
部关闭, 1:上限开启,下限关闭,2:上限关闭,下限开启,3:上下限全部开启
                                    //湿度表示类型保留
unsigned int humidity type;
                                    //当前湿度
double curr humidity value;
                                                //上限报警湿度
double max alarm value;
                                                //下限报警湿度
double min alarm value;
unsigned char reserved[16];
                                          //
}T SDK HUMIDITY ALARM PARAM;
使用范例:
            case SDKCMD_SET_HUMIDITY_ALARM_PARAM:
                 T SDK HUMIDITY ALARM PARAM *param input =
(T_SDK_HUMIDITY_ALARM_PARAM* )param;
                 retcode = GOS_SDK_Set_Humidity_Alarm_Param(param_input);
if(0 != retcode)
                       return SDK FAILUR;
                 break;
注意事项:无。
```

#### 5.5.18 获取湿度报警参数

```
命令: SDKCMD_GET_HUMIDITY_ALARM_PARAM
参数:
typedef struct
                                    //上下限湿度报警开关, 0:上下限全
unsigned int alarm enale;
部关闭, 1:上限开启,下限关闭,2:上限关闭,下限开启,3:上下限全部开启
unsigned int humidity type;
                               //湿度表示类型保留
                               //当前湿度
double curr humidity value;
                                         //上限报警湿度
double max alarm value;
                                         //下限报警湿度
double min alarm value;
                                    //
unsigned char reserved[16];
}T SDK HUMIDITY ALARM PARAM;
使用范例:
```



# 5.5.19 设置WBGT 报警参数

```
命令: SDKCMD SET WBGT ALARM PARAM
参数:
typedef struct
                                        //上下限WBGT报警开关, 0:上下限
unsigned int alarm enale;
全部关闭, 1:上限开启,下限关闭,2:上限关闭,下限开启,3:上下限全部开启
                                   //当前WBGT
double curr wbgt value;
double max alarm value;
                                              //上限报警WBGT
                                              //下限报警WBGT
double min alarm value;
unsigned char reserved[16];
                                         //
}T SDK WBGT ALARM PARAM;
使用范例:
           case SDKCMD_SET_WBGT_ALARM_PARAM:
                 T SDK WBGT ALARM PARAM *param input =
(T SDK WBGT ALARM PARAM* ) param;
                 retcode = GOS_SDK_Set_WBGT_Alarm_Param(param_input);
                 if(0 != retcode)
                      return SDK FAILUR;
                 break;
```

注意事项:无。

### 5.5.20 获取WBGT 报警参数

```
命令: SDKCMD_GET_WBGT_ALARM_PARAM
```

```
参数:
```



使用范例:

注意事项:无。

# 5.5.21 设置温湿度加wbgt报警参数

```
命令: SDKCMD_SET_TEMP_HUM_WBGT_ALARM_PARAM
参数:
//温度报警参数结构体
typedef struct
                                  //上下限温度报警开关, 0:上下限全
unsigned int alarm enale;
部关闭, 1:上限开启,下限关闭,2:上限关闭,下限开启,3:上下限全部开启
unsigned int temperature type;
                                   //温度表示类型, 0:表示摄氏温
度.C, 1; 表示华氏温度.F
double curr temperature value;
                                  //当前温度
                                        //上限报警温度
double max alarm value;
                                        //下限报警温度
double min alarm value;
                                   //
unsigned char reserved[16];
}T SDK TEMPERATURE ALARM PARAM;
//湿度报警参数结构体
typedef struct
                                   //上下限湿度报警开关, 0:上下限全
unsigned int alarm enale;
部关闭, 1:上限开启,下限关闭,2:上限关闭,下限开启,3:上下限全部开启
unsigned int humidity type;
                              //湿度表示类型保留
                             //当前湿度
double curr humidity value;
                                        //上限报警湿度
double max alarm value;
                                        //下限报警湿度
double min alarm value;
unsigned char reserved[16];
                                   //
```



```
}T SDK HUMIDITY ALARM PARAM;
//WBGT值报警参数结构体
typedef struct
                            //上下限WBGT报警开关, 0:上下限
unsigned int alarm enale;
全部关闭, 1:上限开启,下限关闭,2:上限关闭,下限开启,3:上下限全部开启
                                  //当前WBGT
double curr wbgt value;
                                              //上限报警WBGT
double max alarm value;
                                              //下限报警WBGT
double min alarm value;
unsigned char reserved[16];
                                        //
}T SDK WBGT ALARM PARAM;
typedef struct
T_SDK_TEMPERATURE_ALARM_PARAM t_temperature;
T_SDK_HUMIDITY_ALARM_PARAM t_humidity;
T SDK WBGT ALARM PARAM t wbgt;
}T SDK TEMP HUM WBGT ALARM PARAM;
使用范例:
           case SDKCMD SET TEMP HUM WBGT ALARM PARAM:
                 T SDK TEMP HUM WBGT ALARM PARAM *param input =
(T SDK TEMP HUM WBGT ALARM PARAM* ) param;
                 retcode =
GOS SDK Set TEMP HUM WBGT Alarm Param(param input);
                if(0 = retcode)
                      return SDK FAILUR;
                break;
注意事项:无。
```

### 5.5.22 获取温湿度加wbgt报警参数

```
命令: SDKCMD_GET_TEMP_HUM_WBGT_ALARM_PARAM
参数:

//温度报警参数结构体

typedef struct
{

unsigned int alarm enale;

//上下限温度报警开关, 0:上下限全
```



```
部关闭, 1:上限开启,下限关闭,2:上限关闭,下限开启,3:上下限全部开启
                           //温度表示类型, 0:表示摄氏温
unsigned int temperature type;
度.C, 1; 表示华氏温度.F
double curr temperature value;
                                  //当前温度
                                        //上限报警温度
double max alarm value;
                                        //下限报警温度
double min alarm value;
unsigned char reserved[16];
                                   //
}T SDK TEMPERATURE ALARM PARAM;
//湿度报警参数结构体
typedef struct
                                   //上下限湿度报警开关, 0:上下限全
unsigned int alarm enale;
部关闭, 1:上限开启,下限关闭,2:上限关闭,下限开启,3:上下限全部开启
unsigned int humidity type;
                             //湿度表示类型保留
                             //当前湿度
double curr humidity value;
                                        //上限报警湿度
double max alarm value;
                                        //下限报警湿度
double min alarm value;
unsigned char reserved[16];
                                   //
}T SDK HUMIDITY ALARM PARAM;
//WBGT值报警参数结构体
typedef struct
                                  //上下限WBGT报警开关, 0:上下限
unsigned int alarm enale;
全部关闭, 1:上限开启,下限关闭,2:上限关闭,下限开启,3:上下限全部开启
                             //当前WBGT
double curr wbgt value;
                                        //上限报警WBGT
double max alarm value;
                                        //下限报警WBGT
double min alarm value;
unsigned char reserved[16];
                                   //
}T_SDK_WBGT ALARM PARAM;
typedef struct
```



```
T_SDK_TEMPERATURE_ALARM_PARAM t_temperature;
T_SDK_HUMIDITY_ALARM_PARAM t_humidity;
T_SDK_WBGT_ALARM_PARAM t_wbgt;
}T_SDK_TEMP_HUM_WBGT_ALARM_PARAM;
使用范例:
```

#### 5.6 Osd命令

Osd模块包括以下命令:

- ➤ SDKCMD\_SET\_OSD\_DEFAULT\_PARAM: 恢复OSD默认参数
- ➤ SDKCMD\_GET\_OSD\_PARAM: 获取OSD基本参数
- ➤ SDKCMD\_SET\_OSD\_SHOW\_SWITCH: 设置OSD是否显示
- ➤ SDKCMD\_SET\_OSD\_COLOR: 设置OSD颜色
- ➤ SDKCMD\_SET\_OSD\_POS: 移动OSD位置
- ➤ SDKCMD\_SET\_OSD\_TITLE: 设置OSD标题

#### 5.6.1 恢复OSD默认参数

```
命令: SDKCMD_SET_OSD_DEFAULT_PARAM
参 数: 无。
使用范例:
```

```
case SDKCMD_SET_OSD_DEFAULT_PARAM://设置OSD默认参数

{
    retcode = GOS_SDK_Set_Osd_DefualtParm();
    if(0 != retcode)
        return SDK_FAILUR;
    break;
}
```

注意事项:无。

#### 5.6.2 获取OSD基本参数

```
命令: SDKCMD_GET_OSD_PARAM
参数:
typedef struct
{
    unsigned int un_show;    //value range(1:display 0:close)
    unsigned int un_color;    //value range(1:Black 2:Yelloow 3:Red 4:Blue 5:White Other
```



```
default red)
 unsigned int
              un_x_coordinate;
              un y coordinate;
 unsigned int
}T SDK SINGLE OSD PARAM;
typedef struct
 unsigned int
              un_encode_channel_id; //(Input Param)
 char
        a title1[64];
 char
        a title2[64];
 T SDK SINGLE OSD PARAM
                                   t time;
 T_SDK_SINGLE_OSD_PARAM
                                   t title1;
 T SDK SINGLE OSD PARAM
                                   t title2;
}T_SDK_ALL_OSD_PARAM;
使用范例:
```

#### 5.6.3 设置OSD是否显示

```
命令: SDKCMD_SET_OSD_SHOW_SWITCH
参数:
typedef struct
 unsigned int
               un_encode_channel_id;
 unsigned int
               un_show_Time;
                                    //value range(1:display 0:close)
 unsigned int
               un_show_Date;
                                    //value range(1:display 0:close)
 unsigned int
               un_show_Title1;
                                    //value range(1:display 0:close)
 unsigned int
               un show Title2;
                                    //value range(1:display 0:close)
}T_SDK_OSD_SWITCH;
使用范例:
```

注意事项:无。

#### 5.6.4 设置OSD颜色



```
命令: SDKCMD_SET_OSD_COLOR
参数:
typedef struct
{
    unsigned int un_encode_channel_id;
    unsigned int un_color; //value range(1:Black 2:Yelloow 3:Red 4:Blue 5:White Other default red)
}T_SDK_OSD_COLOR;
使用范例:
```

```
case SDKCMD_SET_OSD_COLOR://设置OSD颜色
{
    T_SDK_OSD_COLOR *param_input = (T_SDK_OSD_COLOR*)param;
    retcode = GOS_SDK_OsdColor_Ctrl(param_input);
    if(0 != retcode)
        return SDK_FAILUR;
    break;
}
```

#### 5.6.5 移动OSD位置

```
命令: SDKCMD_SET_OSD_POS
参数:
typedef struct
 unsigned int
              un_encode_channel_id;
 unsigned int
              un_x_time;
              un_y_time;
 unsigned int
 unsigned int
              un_x_title1;
 unsigned int
              un_y_title1;
  unsigned int un_x_title2;
 unsigned int
               un_y_title2;
}T_SDK_OSD_POS;
使用范例:
```

```
case SDKCMD_SET_OSD_POS://移动OSD位置
{
    T_SDK_OSD_POS *param_input = (T_SDK_OSD_POS*)param;
    retcode = GOS_SDK_OsdPos_Ctrl(param_input);
    if(0 != retcode)
        return SDK_FAILUR;
    break;
}
```

注意事项:无。

#### 5.6.6 设置OSD标题

命令: SDKCMD\_SET\_OSD\_TITLE 参数:

typedef struct



```
{
  unsigned int un_encode_channel_id;
  char a_title1[64];
  char a_title2[64];
}T_SDK_OSD_TITLE;
使用范例:
```

```
case SDKCMD_SET_OSD_TITLE://设置标题
{
    T_SDK_OSD_TITLE *param_input = (T_SDK_OSD_TITLE*)param;
    retcode = GOS_SDK_OSD_SetChNameTitle(param_input);
    if(0 != retcode)
        return SDK_FAILUR;
    break;
}
```

#### 5.7 录像命令

录像模块包括以下命令:

- ➤ SDKCMD\_SET\_RECORD\_DEFAULT\_PARAM: 设置录像默认参数
- ➤ SDKCMD\_GET\_RECORD\_PARAM: 获取录像参数
- ▶ SDKCMD\_SET\_RECORD\_SWITCH: 启动关闭录像
- ▶ SDKCMD\_CLEAR\_RECORD\_FILE: 清除所有录像
- ▶ SDKCMD\_LOCK\_UNLOCK\_RECORD\_FILE: 加解锁录像文件
- ▶ SDKCMD\_GET\_MONTH\_RECORD\_LIST: 按月份查找录像文件
- ▶ SDKCMD\_GET\_DAY\_RECORD\_LIST: 按天获取录像文件列表
- ▶ SDKCMD\_GET\_DAY\_ASSIGNTIME\_RECORD\_LIST: 获取制定时间录像文件列表
- ▶ SDKCMD\_GET\_RECORD\_FILE\_FULL\_PATH: 获取录像文件的绝对路径
- ▶ SDKCMD\_SET\_LOOP\_RECORD\_SWITCH: 开启关闭循环录像功能
- ▶ SDKCMD SET AUDIO RECORD SWITCH: 开启关闭是否录制音频
- ▶ SDKCMD\_SET\_RECORD\_FILE\_DURATION:设置单个录像文件时长
- ▶ SDKCMD\_GET\_RECORD\_FILE\_DURATION: 获取单个录像文件时长
- ▶ SDKCMD\_SET\_RECORD\_FILE\_TYPE: 设置录像音视频格式
- ➤ SDKCMD\_DEL\_RECORD\_FILE: 删除记录文件
- ▶ SDKCMD\_MANUAL\_RECORD\_SWITCH: 手动记录开关
- ➤ SDKCMD\_GET\_STORAGE\_INFO: 获取储存信息
- ➤ SDKCMD\_FORMAT\_STORAGE\_REQ: 格式化储存

#### 5.7.1 设置录像默认参数

```
命令: SDKCMD_SET_RECORD_DEFAULT_PARAMS 参 数 : 无。
使用范例:
```



#### 5.7.2 获取录像参数

```
命令: SDKCMD_GET_RECORD_PARAMS
参数:
typedef struct
 unsigned int
              un_switch;
 unsigned int
              un_audio_switch;
 unsigned int
              un_manual_record_switch;
                                          //手动录像开关
 unsigned int
              un_encode_channel_id;
 unsigned int
              un_file_duration;
 unsigned int
                             //value range of auto circulate record(0:on 1:off)
              un_loop;
 unsigned int
                            //record file type value range (0:ts 1:mp4 2:flv)
               un file type;
}T_SDK_RECORD_PARAM;
使用范例:
```

```
case SDKCMD_GET_RECORD_PARAM:
{
    T_SDK_RECORD_PARAM *pData = (T_SDK_RECORD_PARAM*)param;
    retcode = sdk_GetRecordParam(pData);
    if(SDK_SUCESS != retcode)
    {
        Dbg_Trace(GOS_LOG_ERR, "sdk_getRecordParam FAILED!\n");
        return SDK_FAILUR;
    }
    break;
}
```

注意事项:无。

# 5.7.3 启动关闭录像

命令: SDKCMD\_SET\_RECORD\_SWITCH

参数: unsigned int un\_switch;



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使用范例:

注意事项:无。

### 5.7.4 清除所有录像

```
命令: SDKCMD_CLEAR_RECORD_FILE
```

参 数 : 无。 使用范例:

```
case SDKCMD_CLEAR_RECORD_FILE:
{
    retcode = sdk_ClearRecordFile();
    if(SDK_SUCESS != retcode)
    {
        Dbg_Trace(GOS_LOG_ERR, "sdk_ClearRecordFile
        FAILED!\n");
        return SDK_FAILUR;
    }
    break;
}
```

注意事项:无。

#### 5.7.5 加解锁录像文件

```
命令: SDKCMD_LOCK_UNLOCK_RECORD_FILE 参数: typedef struct {
    unsigned int un_lock;
    char a_file_name[64];
}T_SDK_RECORD_LOCK_FILE;
使用范例:
```

```
case SDKCMD_LOCK_UNLOCK_RECORD_FILE:
{
    T_SDK_RECORD_LOCK_FILE *pData =
    (T_SDK_RECORD_LOCK_FILE*) param;
    retcode = sdk_LockUnlockRecordFile(pData);
    if(SDK_SUCESS != retcode)
    {
        Dbg_Trace(GOS_LOG_ERR, "sdk_LockUnlockRecordFile
        FAILED!\n");
        return SDK_FAILUR;
    }
    break;
}
```



# 5.7.6 按月份查找录像文件

```
命令: SDKCMD_GET_MONTH_RECORD_LIST
参数:
typedef struct
 char
       a_month[16]; //example:"201401" (input Param. 2014 means year,01 means month)
       cp_list; //example:"201401013|201401021|201401122|" (Output Param. 2014 means
year, in 201401013 01 means month, 3 meas how many files exist)
 unsigned int
              un_list_len;
}T_SDK_RECORD_MONTH_LIST;
使用范例:
             case SDKCMD GET MONTH RECORD LIST:
                 T SDK RECORD MONTH LIST *pData =
      (T SDK RECORD MONTH LIST*) param;
                 retcode = sdk_GetMonthRecordList(pData);
                 if(SDK SUCESS != retcode)
                     Dbg_Trace(GOS_LOG_ERR, "sdk_GetMonthRecordList
      FAILED!\n");
                     return retcode;
                 break;
```

# 5.7.7 按天获取录像文件列表

注意事项:无。

```
命令: SDKCMD_GET_DAY_RECORD_LIST
参数:
typedef struct
 char
       a_day[16];
                                          //example:"20140112"(input Param. 2014
means year,01 means month,12 mens the day)
                            //请求文件类型 (视频: 0, 图片: 1)
 unsigned int file_type;
                                   //文件数
 unsigned int file_counts;
 /*example:"201401121132231bc0120.mp4|201401121133231bc0120.mp4|"
                                                        (Output Param. in
201401121132231bc0120z.ts 2014 means year,01 means month,
                                                        12 meas the day,11 means
hour, 32 means minute, 23 means second,
                                                        1 means the file can not
remove when auto circulate record is open,
                                                        b means record type (value
```



```
frome enum RECORD_TYPE + 'a')
                                                        c means alarm type (value
  frome enum E_SDK_ALARM_TYPE + 'a'))
                                                        012 means record time
                                                        .mp4 meas record file type*/
   char* cp_list;
   unsigned int un_list_len;
 }T_SDK_RECORD_DAY_LIST;
  使用范例:
               case SDKCMD_GET_DAY_RECORD_LIST:
                  T SDK RECORD DAY LIST *pData =
        (T SDK RECORD_DAY_LIST*)param;
                  retcode = sdk GetDayRecordList(pData);
                   if(SDK SUCESS != retcode)
                      Dbg Trace(GOS LOG ERR, "sdk GetDayRecordList
       FAILED!\n");
                      return retcode;
                  break;
               }
  注意事项:无。
5.7.8
      获取指定时间录像文件列表
  命令: SDKCMD_GET_DAY_ASSIGNTIME_RECORD_LIST
  参数:
   typedef struct
                                    //example:"201401121132231bc0120.mp4"
   char
         filename[32];
                             //查找方向,0:向上(向左); 1:向下(向右);
   unsigned int direction;
   unsigned int file_counts;
                                    //需要查找的文件数
   unsigned int Counts;
                                    //实际文件数
  /*example:"201401121132231bc0120.mp4|201401121133231bc0120.mp4|"
                                                        (Output Param. in
  201401121132231bc0120z.ts 2014 means year,01 means month,
                                                        12 meas the day,11 means
  hour, 32 means minute, 23 means second,
                                                        1 means the file can not
 remove when auto circulate record is open,
                                                        b means record type (value
 frome enum RECORD TYPE + 'a')
                                                        c means alarm type (value
```

frome enum E\_SDK\_ALARM\_TYPE + 'a'))



012 means record time
.mp4 meas record file type\*/

```
char* cp_list;
unsigned int un_list_len;
}T_SDK_RECORD_ASSIGNTIME_DAY_LIST;
使用范例:
```

注意事项:无。

#### 5.7.9 获取录像文件的绝对路径

注意事项:无。

# 5.7.10 开启关闭循环录像功能



#### 命令: SDKCMD\_SET\_LOOP\_RECORD\_SWITCH

参数: unsigned int un\_switch;

使用范例:

注意事项:无。

# 5.7.11 开启关闭是否录制音频

命令: SDKCMD\_SET\_AUDIO\_RECORD\_SWITCH

参数: unsigned int un switch;

使用范例:

注意事项:无。

### 5.7.12 设置单个录像文件时长

命令: SDKCMD\_SET\_RECORD\_FILE\_DURATION

参数: int n\_file\_duration; //单位s

使用范例:

注意事项:无。

### 5.7.13 获取单个录像文件时长

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#### 命令: SDKCMD\_GET\_RECORD\_FILE\_DURATION

参数: unsigned int \*pData; //单位s

使用范例:

注意事项:无。

#### 5.7.14 设置录像音视频格式

命令: SDKCMD\_SET\_RECORD\_FILE\_TYPE

参数: int n\_rec\_type; //0:ts 1:mp4 2:flv

使用范例:

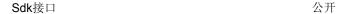
注意事项:无。

#### 5.7.15 删除记录文件

```
命令: SDKCMD_DEL_RECORD_FILE
```

```
参数:
```

```
typedef struct
{
   char a_file_name[32];
//example:"201401121132231bc0120.mp4"(input param)
        char a_path[128];
//example:"/sdcard/ipc/201401/12/201401121132231bc0120.mp4"
}T_SDK_RECORD_FILE_PATH;
```





使用范例:

注意事项:无。

#### 5.7.16 手动记录开关

# 命令: SDKCMD\_MANUAL\_RECORD\_SWITCH

参数: unsigned int manual\_record\_switch; // 0:stop 1:start 使用范例:

注意事项:无。

# 5.7.17 获取储存信息

#### 命令: SDKCMD\_GET\_STORAGE\_INFO

```
参数:
```

```
typedef struct
{

unsigned int a_total_size; //总容量

unsigned int a_used_size; //已用容量

unsigned int a_free_size; //未用容量

unsigned int a_reserve[2]; //保留
}T SDK STORAGE INFO;
```



使用范例:

注意事项:无。

### 5.7.18 格式化储存

命令: SDKCMD\_FORMAT\_STORAGE\_REQ

参数:无。

使用范例:

注意事项:无。

#### 5.8 抓拍命令

抓拍模块包括以下命令:

▶ SDKCMD\_SET\_SNAPSHOT\_PATH: 设置抓拍路径

#### 5.8.1 设置抓拍路径

```
命令: SDKCMD_SET_SNAPSHOT_PATH
```

参数:

```
typedef struct
{
  char pic_path[128];
}T_SDK_PIC_PATH;
使用范例:
```



### 5.9 升级命令

升级模块包括以下命令:

- ▶ SDKCMD\_UPGRADE\_BYLOCAL: 根据本地升级包升级
- ➤ SDKCMD\_UPGRADE\_BYSELF: 下载并且升级

命令: SDKCMD\_UPGRADE\_BYLOCAL

char a current ver[32];

### 5.9.1 根据本地升级包升级

```
参数:

typedef struct
{

unsigned int un_mode; //0 -> app; 1 -> fw; 2 ->

kernel; 3 -> uboot
```

//current version

```
case SDKCMD_UPGRADE_BYLOCAL://根据本地升级包升级
{
    T_SDK_UPGRADE_BYLOCAL_PARAMS* param_input =
(T_SDK_UPGRADE_BYLOCAL_PARAMS*)param;
    retcode = GOS_SDK_Upgrade_Bylocal(param_input);
    if (0 != retcode)
        return SDK_FAILUR;
    break;
}
```

注意事项:无。

使用范例:

#### 5.9.2 下载并且升级

```
命令: SDKCMD_UPGRADE_BYSELF
```

```
参数:
```

```
typedef struct
{
  char a ipaddr[128];  //ip address
```



```
unsigned int un_port; //ip port
unsigned int result; //0 -> create upgrade thread success; 1-
>malloc failed; 2 -> create thread failed; 3 -> is upgrading
unsigned int remoteFlag; //是否是远程升级 0:局域网升级; 1:服务
器升级;
unsigned int cancelFlag; //取消升级标志默认为0不取消1时取消升级
}T_SDK_UPGRADE_BYSELF_PARAMS;
使用范例:
```

#### 5.10 网络命令

网络模块包括以下命令:

- ▶ SDKCMD\_SET\_NETWORK\_DEFAULT\_PARAM: 设置网络默认参数
- ➤ SDKCMD\_SET\_WIRELESS\_PARAM: 设置无线参数
- ▶ SDKCMD\_SET\_NETWORK\_DHCP: 设置网络是否启用DHCP
- ▶ SDKCMD\_SET\_STATIC\_IPADDR\_PARAM: 设置网络ip address 参数
- ➤ SDKCMD\_SET\_DDNS\_PARAM: 设置DDNS参数
- ▶ SDKCMD\_SET\_STATIC\_DNS\_PARAM: 设置DNS参数
- ➤ SDKCMD SET NTP PARAM: 设置NTP参数
- SDKCMD SET STATIC NETGATEWAY PARAM: 设置NETGATEWAY参数
- ▶ SDKCMD\_SET\_STATIC\_NETMASK\_PARAM: 设置静态NETMASK参数
- ▶ SDKCMD\_SET\_MAC\_PARAM: 设置mac地址
- ➤ SDKCMD\_SET\_HOSTNAME: 设置主机名
- ▶ SDKCMD\_GET\_NETWORK\_PARAM: 获取网络参数
- ➤ SDKCMD\_GET\_NTP\_PARAM: 获取NTP参数
- ▶ SDKCMD SEARCH SSID NEARBY: 获取搜索到的SSID信息
- ➤ SDKCMD\_GET\_NVR\_IP\_ADDR: 获取NVR IP地址
- ➤ SDKCMD\_SET\_NVR\_IP\_ADDR: 设置NVR IP地址
- ➤ SDKCMD\_GET\_SERVER\_INFO: 获取服务器信息



#### 5.10.1 设置网络默认参数

```
命令: SDKCMD_SET_NETWORK_DEFAULT_PARAM 参 数 : 无。
使用范例:
```

注意事项:无。

### 5.10.2 设置无线参数

```
命令: SDKCMD_SET_WIRELESS_PARAM
```

```
参数:
```

```
typedef enum E SDK WIFI MODE
E\_SDK\_WIFI\_AP\_MODE = 0x00,
E_SDK_WIFI_CLIENT_MODE,
E_SDK_WIFI_AP_CLIENT_MODE,
E_SDK_WIFI_WPS_MODE,
E SDK WIFI MODE NUM
}E_SDK_WIFI_MODE;
typedef enum E SDK NET STATUS
E SDK DISCONNECT,
E_SDK_CONNECT,
E_SDK_SETTING,
E_SDK_CONNECTING,
}E SDK NET STATUS;
typedef struct
E_SDK_WIFI_MODE e_wifi_mode;
E SDK NET STATUS e wifi connect status;
char a SSID[64];
```





```
char a_passwd[64];
unsigned int un_encrypt;
}T_SDK_WIRELESS_PARAMS;
使用范例:
```

# 5.10.3 设置网络是否启用DHCP

命令: SDKCMD\_SET\_NETWORK\_DHCP

参数: unsigned int dhcp; //0:static 1:dhcp

使用范例:

```
case SDKCMD_SET_NETWORK_DHCP:
{
    retcode = sdk_networkDHCP((unsigned int *)param);
    if( SDK_SUCESS != retcode)
    {
        Dbg_Trace(GOS_LOG_ERR, "\n SET DHCP FAILED!\n");
        return SDK_FAILUR;
    }
    break;
}
```

注意事项:无。

使用范例:

# 5.10.4 设置网络ip address 参数

```
命令: SDKCMD_SET_STATIC_IPADDR_PARAM
参数:
typedef struct
{
    char a_IP[64];
}T_SDK_IPADDR;
```



### 5.10.5 设置DDNS参数

```
命令: SDKCMD_SET_DDNS_PARAM
参数:

typedef struct
{
    unsigned int ddns_swicth; //value range(1:enable 0:disable)
    char a_username[50];
    char a_password[50];
    char a_server[128];
    char a_domain[128];
    unsigned int un_protocol_type; //value range(:0: Oray
    protocol 1:DYNDNS protocol)
}T_SDK_DDNS;
使用范例:

    case SDKCMD_SET_DDNS_PARAM:
```

注意事项:无。

#### 5.10.6 设置DNS参数

```
命令: SDKCMD_SET_STATIC_DNS_PARAM
参数:
typedef struct
{
  char a_DNS[2][64];
}T_SDK_DNS;
```



使用范例:

```
case SDKCMD_SET_STATIC_DNS_PARAM:
{
    T_SDK_DNS *pData = (T_SDK_DNS*)param;
    retcode = sdk_networkDNS(pData);
    if( SDK_SUCESS != retcode)
    {
        Dbg_Trace(GOS_LOG_ERR, "\n SET NETWORK DNS FAILED!\n");
        return SDK_FAILUR;
    }
    break;
}
```

注意事项:无。

### 5.10.7 设置NTP参数

```
命令: SDKCMD_SET_NTP_PARAM
参数:
//ntp 参数结构设置
typedef struct
                                                         //ntp校时开关 (1:开启,
            un_NtpOpen;
 unsigned int
0:关闭)
                                                   //夏令时开关 (1:开启, 0:关闭)
 unsigned int
             un EuroTime;
                                                         //ntp校时间隔 (单位秒)
 unsigned int
             un_NtpRefTime;
 int
                          un_TimeZone;
                                                               //时区 (-12~11)
                                          //ntp校时服务器地址
 char
             a_NtpServer[64];
                                                   //ntp校时服务器端口
 unsigned int
             un_ntp_port;
 unsigned int
             un_Res[2];
}T_SDK_NTP_CFG_PARAMS;
```

使用范例:

注意事项:无。



### 5.10.8 设置NETGATEWAY参数

```
命令: SDKCMD_SET_STATIC_NETGATEWAY_PARAM
参数:
typedef struct
{
    char a_gateway[64];
}T_SDK_GATEWAY;
使用范例:
```

注意事项:无。

### 5.10.9 设置静态NETMASK参数

```
命令: SDKCMD_SET_STATIC_NETMASK_PARAM
参数:
typedef struct
{
   char a_mask[64];
}T_SDK_NET_MASK;
使用范例:
```

注意事项:无。

#### 5.10.10 设置mac地址



```
命令: SDKCMD_SET_MAC_PARAM
参数:
typedef struct
{
  char a_wire_MAC[19];
  char a_wireless_MAC[19];
}T_SDK_NET_MAC; // not support
使用范例:
```

```
case SDKCMD_SET_MAC_PARAM:
{
    T_SDK_NET_MAC *pData = (T_SDK_NET_MAC*)param;
    retcode = sdk_networkMac(pData);
    if( SDK_SUCESS != retcode)
    {
        Dbg_Trace(GOS_LOG_ERR, "\n SET NETWORK MAC FAILED!\n");
        return SDK_FAILUR;
    }
    break;
}
```

### 5.10.11 设置主机名

```
命令: SDKCMD_SET_HOSTNAME
参数:
typedef struct
{
    char a_hostname[64];
}T_SDK_HOSTNAME;
使用范例:
```

注意事项:无。

#### 5.10.12 获取网络参数

命令: SDKCMD\_GET\_NETWORK\_PARAM 参数:





```
typedef enum _E_SDK_WIFI_MODE
{
 E_SDK_WIFI_AP_MODE = 0x00,
 E_SDK_WIFI_CLIENT_MODE,
 E_SDK_WIFI_AP_CLIENT_MODE,
 E SDK WIFI WPS MODE,
 E_SDK_WIFI_MODE_NUM
}E_SDK_WIFI_MODE;
typedef enum _E_SDK_NET_STATUS
 E_SDK_DISCONNECT,
 E_SDK_CONNECT,
 E_SDK_SETTING,
 E_SDK_CONNECTING,
}E_SDK_NET_STATUS;
typedef struct
 E_SDK_WIFI_MODE e_wifi_mode;
 E_SDK_NET_STATUS
                            e_wifi_connect_status;
 char
       a_SSID[64];
 char
       a_passwd[64];
 unsigned int un_encrypt;
}T_SDK_WIRELESS_PARAMS;
typedef struct _T_NTP_CONFIG_S
 unsigned int
              un switch;
                                  //value range(0:close 1:open)
 unsigned int
              un_cycle;
                            //value range(1~7*24 hour)
              un_timezone; //value range(0-12: The west 12 zone - 0 zone ;13-24:East 1
 unsigned int
zone - East 12 zone)
 char
       a_host[128];
 unsigned int
              un_daylight;
}T_SDK_NTP;
typedef struct
{
  unsigned int ddns_swicth; //value range(1:enable 0:disable)
 char
       a_username[50];
 char
       a_password[50];
 char
       a_server[128];
 char
       a_domain[128];
```





```
//value range(:0: Oray protocol 1:DYNDNS protocol)
 unsigned int
              un_protocol_type;
}T_SDK_DDNS;
typedef struct
 unsigned int un_protocals_type;
 T SDK WIRELESS PARAMS
                                   t wireless param;
 unsigned int un_dhcp_switch;
                                                 //0:static 1:dhcp
 char
       a_hostname[64];
        a_IP[64];
 char
 char
       a_DNS[2][64];
 T_SDK_NTP t_NTP;
       a_gateway[64];
 char
 char
       a_mask[64];
 char
       a_wire_MAC[19];
 char
        a_wireless_MAC[19];
 T_SDK_DDNS t_DDNS_info;
}T_SDK_NETWORK_PARAMS;
使用范例:
```

### 5.10.13 获取NTP参数



```
//ntp校时间隔
unsigned int
                   un NtpRefTime;
(单位秒)
int
                                                                      //时区
                         un TimeZone;
(-12 \sim 11)
                                                     //ntp校时服务器地址
char
                   a NtpServer[64];
                                                               //ntp校时服务
unsigned int
                  un_ntp_port;
器端口
unsigned int
                   un Res[2];
}T SDK NTP CFG PARAMS;
使用范例:
            case SDKCMD GET NTP PARAM:
               T_SDK_NTP_CFG_PARAMS *pData = (T_SDK_NTP_CFG_PARAMS
     *)param;
               retcode = SDK_GetDeviceNtpParam(pData);
               if( SDK_SUCESS != retcode)
                   Dbg Trace(GOS LOG ERR, "\n SDKCMD GET NTP PARAM
     FAILED!\n");
                   return SDK FAILUR;
                break;
```

#### 5.10.14 获取搜索到的SSID信息

```
命令: SDKCMD_SEARCH_SSID_NEARBY
```

```
参数:
```

```
typedef struct
{
  char a_SSID[64];
  unsigned int un_signal_level;
}T_SDK_SEARCH_SSID_INFO;

typedef struct
{
  unsigned int un_ssid_num;
  T_SDK_SEARCH_SSID_INFO t_info[30];
}T_SDK_SEARCH_SSID_NEARBY;
```



使用范例:

```
case SDKCMD_SEARCH_SSID_NEARBY:
                    T_SDK_SEARCH_SSID_NEARBY *pData =
(T_SDK_SEARCH_SSID_NEARBY*)param;
                   retcode = sdk_getWirelessSSIDInfo(pData);
                    if( SDK SUCESS != retcode)
                           Dbg_Trace(GOS_LOG_ERR, "\n GET Wireless SSID
INFO!\n");
                           return SDK_FAILUR;
           break;
```

注意事项:无。

#### 5.10.15 获取NVR IP地址

命令: SDKCMD\_GET\_NVR\_IP\_ADDR

参数: char \*param output;

使用范例:

```
case SDKCMD_GET_NVR_IP_ADDR:
                    char *param output= (char *)param;
                    retcode = SDK_Get_NVR_IP_Addr(param_output);
                    if (HI SUCCESS != retcode)
                           Dbg_Trace(GOS_LOG_ERR, "\n SDKCMD_GET_NVR_IP_ADDR
FAILED!\n");
                    break;
```

注意事项:无。

#### 5.10.16 设置NVR IP地址

命令: SDKCMD\_SET\_NVR\_IP\_ADDR

参数: char \*param input;

使用范例:

```
case SDKCMD_SET_NVR_IP_ADDR:
                    char *param_input= (char *)param;
                    retcode = SDK Set_NVR_IP_Addr(param_input);
                    if (HI SUCCESS != retcode)
                           Dbg_Trace(GOS_LOG_ERR, "\n SDKCMD_SET_NVR_IP_ADDR
FAILED!\n");
                    break;
             }
```

注意事项:无。

#### 5.10.17 获取服务器信息

命令: SDKCMD\_GET\_SERVER\_INFO



参数: char \*param\_input;

使用范例:

注意事项:无。

#### 5.11 云台命令

云台模块包括以下命令:

- ▶ SDKCMD\_SET\_PTZ\_TURN\_LEFT:设置云台转向左边
- ▶ SDKCMD\_SET\_PTZ\_TURN\_RIGHT:设置云台转向右边
- ▶ SDKCMD\_SET\_PTZ\_TURN\_UP: 设置云台转向上
- ➤ SDKCMD\_SET\_PTZ\_TURN\_DOWN: 设置云台转向下
- ▶ SDKCMD\_SET\_PTZ\_STOP: 设置云台停止
- ▶ SDKCMD\_SET\_PTZ\_KEEP\_LEFT: 设置云台继续向左
- ▶ SDKCMD\_SET\_PTZ\_KEEP\_RIGHT:设置云台继续向右
- ▶ SDKCMD\_SET\_PTZ\_KEEP\_UP:设置云台继续向上
- ▶ SDKCMD\_SET\_PTZ\_KEEP\_DOWN: 设置云台继续向下

#### 5.11.1 设置云台转向左边

命令: SDKCMD\_SET\_PTZ\_TURN\_LEFT

参数:无。

使用范例:

注意事项:无。

#### 5.11.2 设置云台转向右边

命令: SDKCMD\_SET\_PTZ\_TURN\_RIGHT

参数:无。



使用范例:

```
case SDKCMD_SET_PTZ_TURN_RIGHT:
{
    retcode = SetIpncRS232MotorPtz_S(PTZ_TURN_RIGHT);
    if(0 != retcode)
        return SDK_FAILUR;
    break;
}
```

注意事项:无。

### 5.11.3 设置云台转向上

命令: SDKCMD\_SET\_PTZ\_TURN\_UP

参数:无。

使用范例:

注意事项:无。

### 5.11.4 设置云台转向下

命令: SDKCMD\_SET\_PTZ\_TURN\_DOWN

参数:无。

使用范例:

```
case SDKCMD SET PTZ TURN DOWN:
{
    retcode = SetIpncRS232MotorPtz_S(PTZ_TURN_DOWN);
    if(0 != retcode)
        return SDK_FAILUR;
    break;
}
```

注意事项:无。

#### 5.11.5 设置云台停止

命令: SDKCMD\_SET\_PTZ\_STOP

参数:无。

使用范例:

```
case SDKCMD SET PTZ STOP:
{
    retcode = SetIpncRS232MotorPtz_S(PTZ_SCAN_STOP);
    if(0 != retcode)
        return SDK_FAILUR;
    break;
}
```

注意事项:无。



# 5.11.6 设置云台继续向左

命令: SDKCMD\_SET\_PTZ\_KEEP\_LEFT

参数:无。

使用范例:

```
case SDKCMD_SET_PTZ_KEEP_LEFT:
{
    retcode = SetIpncRS232MotorPtz_S(PTZ_KEEP_TURN_LEFT);
    if(0 != retcode)
        return SDK_FAILUR;
    break;
}
```

注意事项:无。

# 5.11.7 设置云台继续向右

命令: SDKCMD\_SET\_PTZ\_KEEP\_RIGHT

参数:无。

使用范例:

```
case SDKCMD_SET_PTZ_KEEP_RIGHT:
{
    retcode = SetIpncRS232MotorPtz_S(PTZ_KEEP_TURN_RIGHT);
    if(0 != retcode)
        return SDK_FAILUR;
    break;
}
```

注意事项:无。

## 5.11.8 设置云台继续向上

命令: SDKCMD\_SET\_PTZ\_KEEP\_UP

参数:无。

使用范例:

```
case SDKCMD SET PTZ KEEP UP:
{
    retcode = SetIpncRS232MotorPtz_S(PTZ_KEEP_TURN_UP);
    if(0 != retcode)
        return SDK_FAILUR;
    break;
}
```

注意事项:无。

#### 5.11.9 设置云台继续向下

命令: SDKCMD\_SET\_PTZ\_KEEP\_DOWN

参数:无。

使用范例:



```
case SDKCMD_SET_PTZ_KEEP_DOWN:
{
    retcode = SetIpncRS232MotorPtz_S(PTZ_KEEP_TURN_DOWN);
    if(0 != retcode)
        return SDK_FAILUR;
    break;
}
```

### 5.12 调试命令

调试模块包括以下命令:

▶ SDKCMD\_SET\_DEBUG\_LEVEL: 设置调试日志级别

# 5.12.1 设置调试日志级别

```
命令: SDKCMD_SET_DEBUG_LEVEL
参数:
typedef enum
{
  FATAL,
  ERROR,
  WARING,
  NOTE,
  None,
}E_SDK_DEBUG_LEVEL;
使用范例:
```

注意事项:无。

# 6 数据类型

# 7 错误码

```
#ifndef _SDK_DEFINE_H_
#define _SDK_DEFINE_H_

#ifdef __cplusplus
extern "C"{
#endif

#define SDK_FAILUR -1
#define SDK_SUCESS 0
```



```
#define SDK FALSE 0
#define SDK TRUE
/******* error code ******/
#define ERR_MAP (SDK_SUCESS+ 1)
#define ERR_DEV (ERR_MAP + 1)
#define ERR_INI
#define ERR_VIDEOINII

#define ERR_IMAGEINIT (ERR_VIDEOINII + 1)

#define ERR_RCSTART (ERR_IMAGEINIT + 1)

#define ERR_BCASTINIT (ERR_RCSTART + 1)

#CERR_RCSTART + 1)

#DEP_NETWORK + 1)
#define ERR_DISCOVER
                          (ERR_NETWORK + 1)
#define ERR AUDIO
                          (ERR_DISCOVER + 1)
#define ERR VIDEO
                          (ERR_AUDIO + 1)
                       (ERR_VIDEO + 1)
#define ERR_MOTION
#define ERR_OSD
                          (ERR_MOTION + 1)
                          (ERR_OSD + 1)
#define ERR SYSPROC
                       (ERR_SYSPROC
                                             + 1)
#define ERR BIPBUF
#define ERR STREAM
#define ERR INVALID PARAM 5
#define ERR NULLPTR
#define ERR NOINITSDK
#define ERR NOTPERM
#define ERR_MULTINITSDK
#define ERR NOTSUPPORT 10
#define ERR INVALIDFILE 11
#define ERR FILESIZE
#define ERR GETSPS
                          13
#define ERR_READFILE
                          14
#define ERR SD BUSY
                           15
#define ERR NO SD
#define ERR_FILE_UPDATE
                           17
#define ERR_DEV_MODEL
                           18
#define ERR SENSOR TYPE
                           19
#define ERR PWD LENGTH
#if defined (__cplusplus)
#endif
#endif //_SDK_DEFINE_H_
```

表1 SDK错误码表

# 8 范例代码



```
#include <stdlib.h>
#include <stdio.h>
#include <string.h>
#include "global.h"
#include "gos_log.h"
#include "sdkout impl.h"
#include "sdk sys_api.h"
#include "sdk define.h"
#include "sdk_commonstruct.h"
#include "api_audio.h"
#include "api_debug.h"
#include "api osd.h"
#include "api_net.h"
#include "api_system.h"
#include "api_alarm.h"
#include "api_video.h"
#include "api_sensor.h"
#include "api_record.h"
#include <sample_venc.h>
#include "gs tlib.h"
#include "record.h"
#include "upgrade.h"
#include "pet_feeder.h"
#include "gos_uart.h"
#ifdef __cplusplus
#if cplusplus
extern "C"{
#endif
#endif /* End of #ifdef cplusplus */
SDK sysInit(), SDK sysRun(), SDK sysExit() 确保设备顺利跑起来
SDK treatCmdOnFly() 动态修改设备参数,可能会导致重启
F SDK Alarm Callback alarm callback fun = NULL;
int SDK treatCmdOnFly(unsigned int cmd, void* param)
      int retcode = -1;
      switch (cmd)
             case SDKCMD_GET_DEVICE_INFO://获取设备型信息
                   T SDK DEVICE INFO *pt deviceInfo =
(T_SDK_DEVICE_INFO*)param;
                   retcode = SDK_GetDeviceInfo(pt_deviceInfo);
                   if( SDK_SUCESS != retcode)
                          Dbg Trace(GOS LOG ERR, "\nDEVICE TYPE GET
FAILED!\n");
                          return SDK FAILUR;
                   break;
             }
             case SDKCMD_SAVE_ALL_PARAM:
                   retcode = SDK_SaveAllParam();
```



```
if( SDK SUCESS != retcode)
                           Dbg_Trace(GOS_LOG_ERR, "\nDEVICE SAVE ALL PARAM
FAILED!\n");
                           return SDK FAILUR;
                    break;
        case SDKCMD REBOOT DEVICE://设备重启
            Gos Man De St.reboot flag = 1;
            return SDK SUCESS;
                   break;
        case SDKCMD_RESET_DEVICE:
            retcode = SDK_ResetDevice();
            if( SDK_SUCESS != retcode)
                Dbg Trace(GOS LOG ERR, "\nDEVICE SET RESET FAILED!\n");
                return SDK FAILUR;
           break;
        case SDKCMD SET DEVICE TIME:
            T_SDK_DEVICE_TIME *param_output = (T_SDK_DEVICE TIME*)param;
                   retcode = SDK_SetDeviceTime(param_output);
            if(0 != retcode)
            return retcode;
                    break;
        case SDKCMD_SET_NIGHT_VISION:
                    T_SDK_NIGHT_VISION *pData = (T_SDK_NIGHT_VISION*)param;
                    retcode = SDK SetNightVision(pData);
                    if ( SDK SUCESS != retcode)
                           Dbg Trace(GOS LOG ERR, "\nSet Night Vision
FAILED!\n");
                           return SDK FAILUR;
           break;
        }
             case SDKCMD GET NIGHT VISION:
                    retcode = SDK_GetNightVision((T_SDK_NIGHT_VISION
*)param);
                    if( SDK SUCESS != retcode)
                    {
                           Dbg Trace(GOS LOG ERR, "\n SDK GetNightVision
FAILED!\n");
                           return SDK FAILUR;
           break;
        case SDKCMD_SET_CONNECTED_PLATFORM_STATUS:
                    retcode = SDK ConnectedPlatform((unsigned int *)param);
                    if(SDK SUCESS != retcode)
                           Dbg_Trace(GOS_LOG_ERR, "SDK_ConnectedPlatform
FAILED!\n");
                           return SDK FAILUR;
                    }
```



```
break;
             case SDKCMD SET LED STATUS:
                    retcode = SDK_SetGPIO((T_SDK_LED *)param);
                    if (SDK SUCESS != retcode)
                           Dbg Trace(GOS LOG ERR, "SDKCMD SET LED STATUS
FAILED!\n");
                           return SDK FAILUR;
                    break;
        case SDKCMD SET DEVICE AUTHENTICATION:
            T SDK DEVICE AUTHENTICATION INFO *set param =
(T_SDK_DEVICE_AUTHENTICATION_INFO*)param;
                    retcode = SDK_Set_Device_Authentication(set_param);
                    if(SDK SUCESS != retcode)
                           Dbg_Trace(GOS_LOG_ERR,
"SDK Set Device Authentication FAILED!\n");
                           return SDK FAILUR;
                    break;
        case SDKCMD_GET_DEVICE_AUTHENTICATION:
            T SDK DEVICE AUTHENTICATION INFO *get_param =
(T_SDK_DEVICE_AUTHENTICATION_INFO*)param;
                    retcode = SDK Get Device Authentication(get param);
                    if(SDK SUCESS != retcode)
                           Dbg_Trace(GOS_LOG_ERR,
"SDK Get Device Authentication FAILED!\n");
                           return SDK FAILUR;
                    break;
             case SDKCMD_GET_DEVICE_ABILITY:
                    T_SDK_DEVICE_ABILITY_INFO *get_param = NULL ;
                    T SDK_DEVICE_ABILITY_INFO1 *get_param1 = NULL ;
                    T SDK DEVICE ABILITY INFO2 *get param2 = NULL;
                    switch (SDK_DEVICE_ABILITY_VERSION)
                         get_param = (T_SDK_DEVICE_ABILITY_INFO*)param;
                                  retcode = SDK Get Device Ability(get param);
                                  if(SDK SUCESS != retcode)
                                         Dbg_Trace(GOS_LOG_ERR,
"SDK Get Device Authentication ability0 FAILED!\n");
                                        return SDK_FAILUR;
                                 break;
                           case 1:
                         get_param1 = (T_SDK_DEVICE_ABILITY_INFO1*)param;
                                 retcode =
SDK_Get_Device_Ability1(get_param1);
                                  if(SDK SUCESS != retcode)
```



```
Dbg Trace (GOS LOG ERR,
"SDK Get Device Authentication ability1 FAILED!\n");
                                        return SDK FAILUR;
                                 break;
                           case 2:
                          get_param2 = (T_SDK_DEVICE_ABILITY_INFO2*)param;
                                  retcode
SDK_Get_Device_Ability2(get_param2);
                                  if (SDK SUCESS != retcode)
                                         Dbg_Trace(GOS_LOG_ERR,
"SDK Get Device Authentication ability2 FAILED!\n");
                                        return SDK FAILUR;
                                  break;
                                  default:
                                         Dbg Trace (GOS LOG ERR, "not support
this ability search version!\n");
                                        break;
                    break:
             case SDKCMD SET LIGHT SWITCH:
                    unsigned int *param input = (unsigned int*)param;
                    retcode = SDK_Set_Light_Switch(*param_input);
            if(0 != retcode)
                return retcode;
                    break;
             case SDKCMD_GET_LIGHT_SWITCH:
                    unsigned int *param_output = (unsigned int*)param;
                    retcode = SDK_Get_Light_Switch(param_output);
            if(0 != retcode)
                return retcode;
                    break;
             }
             case SDKCMD SET LIGHT DURATION:
                    T SDK DEVICE_LIGHT_DURATION* param_input =
(T_SDK_DEVICE_LIGHT_DURATION*)param;
                    retcode = SDK_Set_Light_Open_Time(param_input-
>un trigger time,param input->un manual time);
            if(0 != retcode)
                return retcode;
                    break;
             }
             case SDKCMD GET LIGHT DURATION:
                    T SDK_DEVICE_LIGHT_DURATION* param_output =
(T_SDK_DEVICE_LIGHT_DURATION*)param;
                    retcode = SDK_Get_Light_Open_Time(&(param_output-
>un_trigger_time),&(param_output->un_manual_time));
            if(0 != retcode)
               return retcode;
            break;
             }
             case SDKCMD_SET_LIGHT_TIMING_INFO:
                    T SDK_DEVICE_LIGHT_TIMING *param_input =
(T SDK DEVICE LIGHT TIMING *)param;
                    retcode = SDK_Set_Light_Timing_Info(param_input);
            if(0 != retcode)
                return retcode;
```



```
break;
             case SDKCMD_GET_LIGHT_TIMING_INFO:
                   T SDK DEVICE_LIGHT_TIMING *param_output =
(T SDK DEVICE LIGHT TIMING *)param;
                   retcode = SDK Get Light Timing Info(param output);
            if(0 != retcode)
               return retcode;
                   break;
             //**********视频相关(a2)*********
             case SDKCMD SET VIDEO ENCODE DEFAULT PARAM:
        {
            retcode = GOS_SDK_SetVideoDefaultParm();
            if(0 != retcode)
               return retcode;
           break;
        }
             case SDKCMD REGISTER STREAM DATA CALLBACK:
           T SDK STREAM REGISTER CALLBACK* param input =
(T SDK STREAM REGISTER CALLBACK *)param;
                   retcode = sdk RigisterStreamCallback(param input);
            if(0 != retcode)
               return retcode;
           break;
            }
       case SDKCMD_FORCE_VIDEO_ENCODE_I_FRAME://强制获取I帧
            T_SDK_FORCE_I_FARME *param_input = (T_SDK_FORCE_I_FARME*)param;
            retcode = GOS_SDK_VENC_RequestIFrame(0,param_input-
>un_encode_channel_id,param_input->un_force_num);
           if(0 != retcode)
               return retcode;
           break;
        }
             case SDKCMD_GET_VIDEO_ENCODE_PARAM://获取编码视频参数
           T SDK VIDEO ENCODE PARAM *param inout parm =
(T_SDK_VIDEO_ENCODE_PARAM*)param;
            retcode = GOS SDK Get VENCParam (param inout parm-
>un encode_channel_id, param_inout_parm);
           if(0 != retcode)
               return retcode;
           retcode = GOS_SDK_Get_ViMirrorMode(param_inout_parm-
>un_encode_channel_id, (unsigned int *)&param_inout_parm->un_mirro_type);
           if(0 != retcode)
               return retcode;
                   break;
             }
       case SDKCMD SET VIDEO ENCODE SWITCH://设置编码算法
           T SDK_VIDEO_ENCODE_TYPE *param_input =
(T SDK VIDEO ENCODE TYPE*)param;
            retcode = GOS_SDK_VENC_SetVENCParam_EncType(param_input-
>un encode channel id, param input->e type);
            if(0 != retcode)
               return retcode;
           break;
       case SDKCMD SET VIDEO ENCODE LEVEL: //编码等级 0: baseline; 1:MP; 2:HP
POE暂不允许修改
       {
```



```
T SDK VIDEO ENCODE LEVEL *param input =
(T_SDK_VIDEO_ENCODE_LEVEL*)param;
            retcode = GOS SDK VENC SetVENCParam Profile (param input-
>un_encode_channel_id, param_input->un_profile);
            if(0 != retcode)
               return retcode;
           break;
       }
        case SDKCMD SET VIDEO ENCODE RESOLUTION://设置编码分辨率
           T SDK VIDEO ENCODE RESOLUTION *param input =
(T SDK VIDEO ENCODE RESOLUTION*) param;
           retcode = GOS_SDK_VENC_SetVENCParam_Resolution(param_input-
>un_encode_channel_id, param_input->un_width,param_input->un_height);
           if(0 != retcode)
               return retcode;
           break;
            }
       case SDKCMD SET VIDEO ENCODE I FRAME INTERVAL://设置编码GOP
           T SDK VIDEO ENCODE I FRAME INTERVAL *param input =
(T SDK VIDEO ENCODE I FRAME INTERVAL*) param;
           retcode = GOS SDK VENC SetVENCParam KeyInterval (param input-
>un_encode_channel_id, param_input->un_interval);
           if(0 != retcode)
               return retcode;
           break;
            }
       case SDKCMD_SET_VIDEO ENCODE BITRATE://设置编码码率
           T SDK VIDEO ENCODE BITRATE *param input =
(T SDK VIDEO ENCODE BITRATE*)param;
            retcode = GOS_SDK_VENC_SetVENCParam_Bitrate(param_input);
            if(0 != retcode)
               return retcode;
           break;
            }
       case SDKCMD SET VIDEO ENCODE FRAMERATE://设置编码帧率
            T SDK VIDEO_ENCODE_FRAMERATE *param_input =
(T_SDK_VIDEO_ENCODE_FRAMERATE*)param;
           retcode = GOS SDK VENC SetVENCParam FrameRate (param input-
>un_encode_channel_id, param_input->un_framerate);
           if(0 != retcode)
               return retcode;
           break;
            }
       case SDKCMD SET VIDEO ENCODE QUALITY://设置编码图像质量
           T SDK VIDEO ENCODE QUALITY *param input =
(T_SDK_VIDEO_ENCODE_QUALITY*)param;
            retcode = GOS_SDK_VENC_SetVENCParam_Qulity(param_input-
>un_encode_channel_id, param_input->un_quality);
           if(0 != retcode)
               return retcode;
           break;
            }
             case SDKCMD GET VIDEO ENCODE QUALITY: //获取编码图像质量
           T_SDK_VIDEO_ENCODE_QUALITY *param_output =
(T_SDK_VIDEO_ENCODE_QUALITY*)param;
           retcode = GOS SDK VENC GetVENCParam Qulity(param output);
            if(0 != retcode)
               return retcode;
           break;
```



```
case SDKCMD SET VIDEO ENCODE QP://设置编码qp等级
           T SDK VIDEO ENCODE QP *param input =
(T SDK VIDEO ENCODE QP*)param;
           retcode = GOS_SDK_VENC_SetVENCParam_Qp(param_input-
>un_encode_channel_id, param_input->un_I_frame_max_Qp,param_input-
>un I frame min Qp);
           if(0 != retcode)
              return retcode;
           break;
            }
            case SDKCMD SET CURR STREAM QUALITY: //设置当前码流质量
           unsigned int *param_input = (unsigned int *)param;
           retcode = GOS_SDK_Set_CurrStream_Quality(param_input);
           if(0 != retcode)
               return retcode;
           break:
            }
            case SDKCMD GET CURR STREAM QUALITY: //获取当前码流质量
           unsigned int *param_output = (unsigned int *)param;
           retcode = GOS SDK Get CurrStream Quality(param output);
           if(0 != retcode)
               return retcode;
           break;
            case SDKCMD SET SNAPSHOT QUALITY: //设置抓拍分辨率(0主码流 1次码流)
           unsigned int *param input = (unsigned int *)param;
           retcode = GOS_SDK_SetSnapQuality(param_input);
           if(0 != retcode)
               return retcode;
                   break;
            case SDKCMD_GET_SNAPSHOT_QUALITY: //获取抓拍分辨率(0主码流 1次码流)
           unsigned int *param_output = (unsigned int *)param;
           retcode = GOS_SDK_GetSnapQuality(param_output);
           if(0 != retcode)
               return retcode;
                   break;
             //**********音频相关(a3)**********
            case SDKCMD GET AUDIO ENCODE PARAM://获取实时音视频流参数
           T SDK AUDIO ENCODE PARAM *param output =
(T SDK AUDIO ENCODE PARAM*)param;
           retcode = GOS SDK AENC GetAENCParam(param output);
           if(0 != retcode)
               return retcode;
           break;
       case SDKCMD SET AUDIO ENCODE SWITCH://设置音频开关
           unsigned int *param_input = (unsigned int *)param;
           retcode = GOS SDK AENC SetAENCParam un switch (param input);
           if(0 != retcode)
               return retcode;
           break;
            }
       case SDKCMD_SET_AUDIO_ENCODE_TYPE://设置音频编码类型
```



```
unsigned int *param_input = (unsigned int *)param;
    retcode = GOS_AI_Setenc_type(param_input);
   if(0 != retcode)
       return retcode;
   break;
    }
case SDKCMD SET AUDIO ENCODE BITRATE://设置音频码率
    {
   unsigned int *param_input = (unsigned int *)param;
   retcode = GOS AI Setbitrate(param_input);
   if(0 != retcode)
       return retcode;
   break;
case SDKCMD SET AUDIO ENCODE SAMPLERATE://设置音频采样率
   unsigned int *param_input = (unsigned int *)param;
   retcode = GOS SDK AENC SetAENCParam sample rate(param input);
   if(0 != retcode)
       return retcode;
   break;
    }
case SDKCMD SET SOUND MODE://设置音频声道模式
   unsigned int *param input = (unsigned int *)param;
   retcode = GOS_SDK_AENC_SetAENCParam_sound_mode(param_input);
   if(0 != retcode)
       return retcode;
   break;
     }
case SDKCMD SET AUDIO INPUT VOLUME
                                      ://设置音频音量输入大小
   unsigned int *param input = (unsigned int *)param;
   retcode = GOS AI SetInVol(param input);
   if(0 != retcode)
       return retcode;
   break;
    }
case SDKCMD SET AUDIO OUTPUT VOLUME
                                     ://设置音频音量输出声音大小
   unsigned int *param_input = (unsigned int *)param;
   retcode = GOS AO SetOutVol(param input);
   if(0 != retcode)
       return retcode;
   break;
    }
case SDKCMD SET AUDIO MIC LINE://设置音频音量输出模式
   unsigned int *param_input = (unsigned int *)param;
   retcode = GOS AI Setmic line input (param input);
   if(0 != retcode)
       return retcode;
   break;
case SDKCMD SET AUDIO ECHO CANCELL://设置音频回音消除
   unsigned int *param_input = (unsigned int *)param;
   retcode = GOS_AI_SetAEC(param_input);
   if(0 != retcode)
       return retcode;
   break;
    }
case SDKCMD SET INTERCOM PARAM: //设置音频对讲参数
   return SDK SUCESS;
   break;
```



```
case SDKCMD_INTERCOM_START: //开启音频对讲
       {
                   GOS intercome start();
           return SDK SUCESS;
           break;
       }
       case SDKCMD SEND INTERCOM DATA: //传输音频数据
           T SDK INTERCOM DATA *param input = (T SDK INTERCOM DATA *)param;
           retcode = GOS SendTackDate2Adec(param input->cp data,param input-
>un data len);
           if(0 != retcode)
               return retcode;
           break;
       case SDKCMD INTERCOM STOP:
                                  //关闭对讲
                   GOS intercome stop();
           return SDK_SUCESS;
           break;
       //*********sensor相关(a4)**********
       case SDKCMD_SET_VIDEO_ENCODE_MIRROR: //图像镜像翻转
       {
           unsigned int *param_input = (unsigned int*)param;
           retcode = GOS SDK Set ViMirrorMode(0, *param input, 1);
           if(0 != retcode)
               return SDK FAILUR;
                   break;
       }
            case SDKCMD GET VIDEO ENCODE MIRROR:
                   unsigned int *param_output = (unsigned int*)param;
                   retcode = GOS SDK Get ViMirrorMode(0, param output);
                   if(0 != retcode)
                          return SDK_FAILUR;
             case SDKCMD_SET_SENSOR_DEFAULT_PARAM://获取输出图像 亮度 对比度 色度
饱和度 锐度
           T_SDK_SENSOR_PARAM *param_output = (T_SDK_SENSOR_PARAM*)param;
           memset(param output, 0, sizeof(T SDK SENSOR PARAM));
           retcode = GOS_SDK_Vi_Get_CSC(param_output);
           if(0 != retcode)
               return SDK FAILUR;
                   break;
            }
       case SDKCMD SET SENSOR SHARP://设置输出锐度
           T_SDK_SENSOR_SHARP *param_input = (T_SDK_SENSOR_SHARP*)param;
           retcode = GOS SDK VPSS SetChnSpParam(param input);
           if(0 != retcode)
               return SDK FAILUR;
                   break;
       case SDKCMD SET SENSOR BRIGHTNESS://设置输出图像亮度
           unsigned int*param input = (unsigned int*)param;
           retcode = GOS_SDK_Vi_Set_CSC_Brightness(*param_input);
           if(0 != retcode)
               return SDK FAILUR;
                   break;
            }
```



```
case SDKCMD SET SENSOR CONTRAST://设置输出图像对比度
    unsigned int*param input = (unsigned int*)param;
    retcode = GOS_SDK_Vi_Set_CSC_Contrast(*param_input);
    if(0 != retcode)
       return SDK FAILUR;
           break;
     }
case SDKCMD SET SENSOR HUE://设置输出图像色度
    unsigned int*param input = (unsigned int*)param;
    retcode = GOS_SDK_Vi_Set_CSC_Hue(*param_input);
    if(0 != retcode)
       return SDK FAILUR;
           break;
case SDKCMD SET SENSOR SATURATION://设置输出图像饱和度
    unsigned int*param input = (unsigned int*)param;
    retcode = GOS_SDK_Vi_Set_CSC_Satu(*param_input);
    if(0 != retcode)
       return SDK FAILUR;
           break;
    }
case SDKCMD GET SENSOR NIGHT DAY STATUE://获取当前光敏电阻状态
    unsigned int*param output = (unsigned int*)param;
    retcode = GOS_SDK_Vi_Get_Ircut(param_output);
    if(0 != retcode)
       return SDK FAILUR;
           break:
    }
case SDKCMD SET SENSOR GAMMA LEVEL://设置当前的GAMMA
    unsigned int*param input = (unsigned int*)param;
    retcode = GOS SDK ISP SetGammaTable(*param input);
    if(0 != retcode)
       return SDK FAILUR;
           break;
     }
case SDKCMD_SET_SENSOR_SHADING_SWITCH://设置当前的暗角补偿属性
    unsigned int*param input = (unsigned int*)param;
    retcode = GOS_SDK_ISP_SetShading(param_input);
    if(0 != retcode)
       return SDK FAILUR;
           break;
     }
     case SDKCMD GET SENSOR NTSC PAL://获取当前视频制式 N:30 P:25
    unsigned int *param input = (unsigned int*)param;
           retcode = GOS_SDK_VI_Get_Frame(param_input);
            if(0 != retcode)
                  return SDK FAILUR;
           break;
     case SDKCMD SET SENSOR NTSC PAL://设置当前视频制式 N:30 P:25
    unsigned int *param input = (unsigned int*)param;
           retcode = GOS_SDK_VI_Set_Frame(*param_input);
           if(0 != retcode)
                  return SDK FAILUR;
           break;
     }
```



```
case SDKCMD GET SENSOR AUTO EXPOSURE://获取AE
           T SDK SENSOR AUTO EXPOSURE*param output =
(T SDK SENSOR AUTO EXPOSURE*) param;
           memset(param_output,0,sizeof(T_SDK_SENSOR_AUTO_EXPOSURE));
           retcode = GOS_SDK_ISP_GetAEAttrEx(param_output);
           if(0 != retcode)
               return SDK FAILUR;
                   break;
        case SDKCMD SET SENSOR AUTO EXPOSURE://设置AE
           T SDK SENSOR AUTO EXPOSURE*param input =
(T SDK SENSOR AUTO EXPOSURE*) param;
           retcode = GOS SDK ISP SetAEAttrEx(param input);
           if(0 != retcode)
               return SDK FAILUR;
                   break;
            }
       case SDKCMD_SET_SENSOR_3D://3D 降噪
           T_SDK_SENSOR_3D*param_input = (T_SDK_SENSOR_3D*)param;
           retcode = GOS_SDK_Set_VPSS_3DNr(param_input-
>un_chroma_range,param_input->un_space_denoise,param_input->un_time_denoise);
           if(0 != retcode)
               return SDK FAILUR;
                   break;
        //*********告警相关(a5)**********
        case SDKCMD RIGISTER ALARM CALLBACK://设置告警回调
            //回调实现
           T SDK ALARM REGISTER CALLBACK *param input =
(T_SDK_ALARM_REGISTER_CALLBACK* )param;
           retcode = GOS_SDK_ARLAM_Init(param_input);
           if(0 != retcode)
               return SDK FAILUR;
                   break;
            }
       case SDKCMD_GET_ALARM_PARAM://获取告警回调参数
           T_SDK_ALARM_PARAM *param_output = (T_SDK_ALARM_PARAM* )param;
           memset(param_output,0,sizeof(T_SDK_ALARM_PARAM));
           retcode = GOS SDK Get Alarm Param(param output);
           if(0 != retcode)
               return SDK FAILUR;
                   break;
            }
        case SDKCMD SET PIR ALARM PARAM://设置PIR告警回调参数
           T SDK PIR ALARM *param input = (T SDK PIR ALARM* )param;
           retcode = GOS_SDK_Set_Alarm_Pir_Param(param_input);
           if(0 != retcode)
               return SDK FAILUR;
                   break;
       case SDKCMD SET MOTION ALARM PARAM://设置移动侦测告警回调参数
           T SDK VIDEO MOTION ALARM *param input =
(T SDK VIDEO MOTION ALARM* ) param;
           retcode = GOS_SDK_Set_Alarm_Motion_Param(param_input);
           if(0 != retcode)
               return SDK FAILUR;
                   break;
             }
```



```
case SDKCMD_SET_AUDIO_ALARM_PARAM://设置音频告警回调参数
           T SDK AUDIO ALARM *param input = (T SDK AUDIO ALARM*)param;
           retcode = GOS_SDK_Set_Alarm_Audio_Param(param_input);
           if(0 != retcode)
               return SDK FAILUR;
                   break;
             }
       case SDKCMD GET AUDIO ALARM PARAM: //获取音频告警回调参数
           T SDK AUDIO ALARM *param input = (T SDK AUDIO ALARM*)param;
           retcode = GOS_SDK_Get_Alarm_Audio_Param(param_input);
           if(0 != retcode)
               return SDK FAILUR;
                   break;
       case SDKCMD SET DOORBELL ALARM PARAM://设置按门铃回调参数
           T SDK DOORBELL ALARM *param input = (T SDK DOORBELL ALARM*)param;
           retcode = GOS_SDK_Set_Alarm_Calling_Param(param_input);
           if(0 != retcode)
               return SDK FAILUR;
                   break;
            }
       case SDKCMD SET IO ALARM PARAM://设置IO回调参数 探头报警
           T SDK IO ALARM *param input = (T SDK IO ALARM*)param;
           retcode = GOS_SDK_Set_Alarm_Io_Param(param_input);
           if(0 != retcode)
               return SDK FAILUR;
                   break;
            }
             case SDKCMD SET ONEKEY ALARM CONTROL PARAM:
                   T_SDK_ONEKEY_ALARM_CONTROL *param_input =
(T_SDK_ONEKEY_ALARM_CONTROL* ) param;
           retcode = GOS_SDK_Set_OneKey_Alarm_Control_Param(param_input);
           if(0 != retcode)
               return SDK FAILUR;
                   break;
             case SDKCMD_GET_ONEKEY_ALARM_CONTROL_PARAM:
                   T SDK ONEKEY ALARM CONTROL *param output =
(T SDK ONEKEY ALARM CONTROL* ) param;
           memset(param output, 0, sizeof(T SDK ONEKEY ALARM CONTROL));
           retcode = GOS_SDK_Get_OneKey_Alarm_Control_Param(param_output);
           if(0 != retcode)
               return SDK FAILUR;
                   break;
             case SDKCMD_SET_ALARM_RING_PARAM:
                   T_SDK_ALARM_RING_PARAM *param_input =
(T SDK ALARM RING PARAM* )param;
           retcode = GOS SDK Set Alarm Ring Param(param input);
           if(0 != retcode)
               return SDK FAILUR;
                   break;
             }
             case SDKCMD GET ALARM RING PARAM:
                   T SDK ALARM_RING_PARAM *param_output =
(T_SDK_ALARM_RING_PARAM* )param;
           retcode = GOS_SDK_Get_Alarm_Ring_Param(param_output);
```



```
if(0 != retcode)
               return SDK_FAILUR;
                   break;
             }
             case SDKCMD PLAY ALARM RING START:
           retcode = GOS SDK Play Alarm Ring();
           if(0 != retcode)
               return SDK FAILUR;
                   break;
             }
             case SDKCMD_PLAY_ALARM_RING_STOP:
           retcode = GOS_SDK_Stop_Play_Alarm_Ring();
           if(0 != retcode)
               return SDK FAILUR;
                   break;
             case SDKCMD SET TEMPERATURE ALARM PARAM:
                   T SDK TEMPERATURE ALARM PARAM *param input =
(T SDK TEMPERATURE ALARM PARAM* ) param;
           retcode = GOS_SDK_Set_Temperature_Alarm_Param(param_input);
           if(0 != retcode)
               return SDK FAILUR;
                   break;
             }
             case SDKCMD GET TEMPERATURE ALARM PARAM:
                    T_SDK_TEMPERATURE_ALARM_PARAM *param_output =
(T SDK TEMPERATURE ALARM PARAM* ) param;
           memset(param_output, 0, sizeof(T_SDK_TEMPERATURE_ALARM_PARAM));
           retcode = GOS_SDK_Get_Temperature_Alarm_Param(param_output);
           if(0 != retcode)
               return SDK FAILUR;
                   break;
             }
             case SDKCMD SET HUMIDITY ALARM PARAM:
                    T SDK HUMIDITY ALARM PARAM *param input =
(T SDK HUMIDITY ALARM PARAM* ) param;
           retcode = GOS_SDK_Set_Humidity_Alarm_Param(param_input);
           if(0 != retcode)
               return SDK FAILUR;
                   break;
             }
             case SDKCMD_GET_HUMIDITY_ALARM_PARAM:
                    T_SDK_HUMIDITY_ALARM_PARAM *param_output =
(T SDK HUMIDITY ALARM PARAM* ) param;
           memset(param output, 0, sizeof(T SDK HUMIDITY ALARM PARAM));
           retcode = GOS_SDK_Get_Humidity_Alarm_Param(param_output);
           if(0 != retcode)
               return SDK FAILUR;
                   break;
             case SDKCMD_SET_WBGT_ALARM_PARAM:
                    T_SDK_WBGT_ALARM_PARAM *param_input =
(T_SDK_WBGT_ALARM_PARAM* )param;
           retcode = GOS_SDK_Set_WBGT_Alarm_Param(param_input);
            if(0 != retcode)
               return SDK FAILUR;
                   break;
             case SDKCMD_GET_WBGT_ALARM_PARAM:
```



```
T SDK WBGT ALARM PARAM *param output =
(T_SDK_WBGT_ALARM_PARAM* )param;
           memset(param_output, 0, sizeof(T_SDK_WBGT_ALARM PARAM));
           retcode = GOS_SDK_Get_WBGT_Alarm_Param(param_output);
           if(0 != retcode)
               return SDK FAILUR;
                   break;
            case SDKCMD SET TEMP HUM WBGT ALARM PARAM:
                   T SDK TEMP HUM WBGT ALARM PARAM *param input
(T SDK TEMP_HUM_WBGT_ALARM_PARAM* )param;
           retcode = GOS_SDK_Set_TEMP_HUM_WBGT_Alarm_Param(param_input);
           if(0 != retcode)
               return SDK FAILUR;
                   break;
            }
            case SDKCMD GET TEMP HUM WBGT ALARM PARAM:
                   T SDK TEMP HUM WBGT ALARM PARAM *param output =
(T SDK TEMP HUM WBGT ALARM PARAM* ) param;
           memset(param_output, 0, sizeof(T_SDK_TEMP_HUM_WBGT_ALARM_PARAM));
           retcode = GOS SDK Get TEMP HUM WBGT Alarm Param(param output);
           if(0 != retcode)
               return SDK FAILUR;
                   break;
            //*********osd相关(a6)**********
       case SDKCMD_SET_OSD_DEFAULT_PARAM://设置OSD默认参数
            {
           retcode = GOS_SDK_Set_Osd_DefualtParm();
           if(0 != retcode)
               return SDK_FAILUR;
                   break;
            }
       case SDKCMD GET OSD PARAM://获取OSD参数
           T SDK ALL OSD PARAM *param output = (T SDK ALL OSD PARAM*)param;
           retcode = GOS_SDK_Get_Osd_Parm(param_output);
           if(0 != retcode)
               return SDK FAILUR;
                   break;
            }
       case SDKCMD_SET_OSD SHOW SWITCH://打开或关闭OSD叠加
           T SDK OSD SWITCH *param input = (T SDK OSD SWITCH*)param;
           retcode = GOS SDK OsdShow Ctrl(param input);
           if(0 != retcode)
              return SDK_FAILUR;
                   break;
       case SDKCMD_SET_OSD_COLOR://设置OSD颜色
           T SDK OSD COLOR *param input = (T SDK OSD COLOR*)param;
           retcode = GOS_SDK_OsdColor_Ctrl(param_input);
           if(0 != retcode)
               return SDK FAILUR;
                   break;
            }
       case SDKCMD_SET_OSD_POS://移动OSD位置
           T SDK OSD POS *param input = (T SDK OSD POS*)param;
           retcode = GOS_SDK_OsdPos_Ctrl(param_input);
           if(0 != retcode)
               return SDK FAILUR;
```



```
break;
       case SDKCMD SET OSD TITLE://设置标题
           T SDK OSD TITLE *param input = (T SDK OSD TITLE*)param;
           retcode = GOS_SDK_OSD_SetChNameTitle(param_input);
           if(0 != retcode)
              return SDK FAILUR;
                  break;
       #if GOS RECORD
            //**********************
            case SDKCMD_SET_RECORD_DEFAULT_PARAM:
                  retcode = sdk_SetRecordDefaultParam();
                  if(SDK SUCESS != retcode)
                        Dbg Trace(GOS LOG ERR, "sdk SetRecordDefaultParam
FAILED!\n");
                        return SDK FAILUR;
                  break;
            case SDKCMD GET RECORD PARAM:
                  T_SDK_RECORD_PARAM *pData = (T_SDK_RECORD_PARAM*)param;
                  retcode = sdk_GetRecordParam(pData);
                  if(SDK_SUCESS != retcode)
                        Dbg_Trace(GOS_LOG_ERR, "sdk_getRecordParam
FAILED!\n");
                        return SDK FAILUR;
                  break;
            case SDKCMD SET RECORD SWITCH:
                  retcode = sdk SetRecordSwitch((unsigned int *)param);
                  if(SDK SUCESS != retcode)
                        Dbg_Trace(GOS_LOG_ERR, "sdk_SetRecordSwitch
FAILED!\n");
                        return SDK FAILUR;
                  break;
            }
            case SDKCMD_CLEAR_RECORD_FILE:
                  retcode = sdk ClearRecordFile();
                  if(SDK SUCESS != retcode)
                        Dbg_Trace(GOS_LOG_ERR, "sdk_ClearRecordFile
FAILED!\n");
                        return SDK FAILUR;
                  break;
            case SDKCMD_LOCK_UNLOCK_RECORD_FILE:
                  T_SDK_RECORD_LOCK_FILE *pData =
(T_SDK_RECORD_LOCK_FILE*) param;
                  retcode = sdk LockUnlockRecordFile(pData);
```



```
if(SDK SUCESS != retcode)
                           Dbg_Trace(GOS_LOG_ERR, "sdk_LockUnlockRecordFile
FAILED!\n");
                           return SDK FAILUR;
                    break;
             case SDKCMD GET MONTH RECORD LIST:
                    T SDK RECORD MONTH LIST *pData =
(T_SDK_RECORD_MONTH_LIST*)param;
                    retcode = sdk GetMonthRecordList(pData);
                    if(SDK_SUCESS != retcode)
                           Dbg Trace(GOS LOG ERR, "sdk GetMonthRecordList
FAILED!\n");
                           return retcode;
                    break;
             case SDKCMD_GET_DAY_RECORD_LIST:
                    T SDK_RECORD_DAY_LIST *pData =
(T SDK RECORD_DAY_LIST*)param;
                    retcode = sdk GetDayRecordList(pData);
                    if(SDK_SUCESS != retcode)
                           Dbg_Trace(GOS_LOG_ERR, "sdk_GetDayRecordList
FAILED!\n");
                           return retcode;
                    break;
             case SDKCMD_GET_DAY_ASSIGNTIME_RECORD_LIST:
                    T SDK RECORD ASSIGNTIME DAY LIST *pData =
(T_SDK_RECORD_ASSIGNTIME_DAY_LIST*)param;
                    retcode = sdk_GetDayAssignTimeRecordList(pData);
                    if(SDK SUCESS != retcode)
                           Dbg Trace (GOS LOG ERR,
"sdk_GetDayAssignTimeRecordList FAILED!\n");
                           return retcode;
                    break;
             case SDKCMD GET RECORD FILE FULL PATH:
                    T SDK RECORD FILE PATH *pData =
(T SDK RECORD FILE PATH*) param;
                    retcode = sdk GetRecordFileFullPath(pData);
                    if(SDK_SUCESS != retcode)
                           Dbg Trace(GOS LOG ERR, "sdk GetRecordFileFullPath
FAILED!\n");
                           return SDK_FAILUR;
                    break;
             case SDKCMD SET LOOP RECORD SWITCH:
                    retcode = sdk SetLoopRecordSwitch((unsigned int *)param);
                    if(SDK SUCESS != retcode)
                           Dbg_Trace(GOS_LOG_ERR, "sdk_SetLoopRecordSwitch
FAILED!\n");
```



```
return SDK FAILUR;
                    break;
             }
             case SDKCMD SET AUDIO RECORD SWITCH:
                    retcode = sdk SetAudioRecordSwitch((unsigned int
*)param);
                    if(SDK SUCESS != retcode)
                           Dbg Trace(GOS LOG ERR, "sdk SetAudioRecordSwitch
FAILED!\n");
                           return SDK FAILUR;
                    break;
             }
             case SDKCMD SET RECORD FILE DURATION:
                    retcode = sdk SetRecordFileDuartion((unsigned int
*)param);
                    if(SDK SUCESS != retcode)
                           Dbg Trace(GOS LOG ERR, "sdk SetRecordFileDuartion
FAILED!\n");
                           return SDK FAILUR;
                    break;
             case SDKCMD_GET_RECORD_FILE_DURATION:
                    unsigned int *pData = (unsigned int *)param;
                    retcode = sdk_GetRecordFileDuartion(pData);
                    if(SDK_SUCESS != retcode)
                           Dbg_Trace(GOS_LOG_ERR, "sdk_GetRecordFileFullPath
FAILED!\n");
                           return SDK FAILUR;
                    break;
             case SDKCMD_SET_RECORD_FILE_TYPE:
                    retcode = sdk_SetRecordFileType((unsigned int *)param);
                    if(SDK SUCESS != retcode)
                           Dbg_Trace(GOS_LOG_ERR, "sdk_SetRecordFileType
FAILED!\n");
                           return SDK_FAILUR;
                    break;
             case SDKCMD DEL RECORD FILE:
                    T_SDK_RECORD_FILE_PATH *pData = (T_SDK_RECORD_FILE_PATH
*)param;
                    retcode = sdk_DeleteRecordFile(pData);
                    if(SDK SUCESS != retcode)
                           Dbg_Trace(GOS_LOG_ERR, "sdk_DeleteRecordFile
FAILED!\n");
                           return SDK_FAILUR;
                    break;
             case SDKCMD MANUAL RECORD SWITCH:
                    retcode = sdk ManualRecordSwitch((unsigned int *)param);
```



```
if(SDK SUCESS != retcode)
                           Dbg_Trace(GOS_LOG_ERR, "sdk_ManualRecordSwitch
FAILED!\n");
                           return retcode;
                    break;
             case SDKCMD GET STORAGE INFO:
                    T_SDK_STORAGE_INFO *pData = (T_SDK_STORAGE_INFO *)param;
                    retcode = sdk_GetStorageInfo(pData);
if( SDK_SUCESS != retcode)
                           Dbg_Trace(GOS_LOG_ERR, "\n GET NETWORK INFO
FAILED!\n");
                          return SDK FAILUR;
            break;
             case SDKCMD FORMAT STORAGE REQ:
                    retcode = CleanAllRecords();
                    if( SDK_SUCESS != retcode)
                           Dbg Trace(GOS LOG ERR, "\n FORMAT FAILED!\n");
                           return SDK_FAILUR;
            break;
             }
        #endif
        //*******模块类型: network相关(aa)*******************
        //++设置网络默认参数
        case SDKCMD SET NETWORK DEFAULT PARAM:
                    retcode = sdk_networkDefaultParam();
                    if ( SDK SUCESS != retcode)
                           Dbg_Trace(GOS_LOG_ERR, "\n SET network default
param fail!\n");
                          return SDK_FAILUR;
           break;
        //++获取搜索到的SSID信息
        #if 1//目前调用这个接口之后wifi会连接不上,所以先去掉
        case SDKCMD SEARCH SSID NEARBY:
                    T_SDK_SEARCH_SSID_NEARBY *pData =
(T SDK SEARCH SSID NEARBY*) param;
                    retcode = sdk_getWirelessSSIDInfo(pData);
                    if ( SDK SUCESS != retcode)
                           Dbg_Trace(GOS_LOG_ERR, "\n GET Wireless SSID
INFO!\n");
                           return SDK FAILUR;
           break;
        }
```



```
#endif
        //++设置无线参数
        case SDKCMD_SET_WIRELESS_PARAM:
                    T_SDK_WIRELESS_PARAMS *pData =
(T SDK WIRELESS PARAMS*)param;
                    retcode = sdk_networkWireless(pData);
                    if( SDK_SUCESS != retcode)
                           Dbg_Trace(GOS_LOG_ERR, "\n SET NETWORK Wireless
FAILED!\n");
                           return SDK FAILUR;
            break;
        //++设置网络是否启用DHCP
        case SDKCMD_SET_NETWORK_DHCP:
                    retcode = sdk_networkDHCP((unsigned int *)param);
                    if ( SDK SUCESS != retcode)
                           Dbg Trace(GOS LOG ERR, "\n SET DHCP FAILED!\n");
                           return SDK FAILUR;
            break;
        //++设置网络IP ADDRESS参数
        case SDKCMD_SET_STATIC_IPADDR_PARAM:
                    T_SDK_IPADDR *pData = (T_SDK_IPADDR*)param;
                    retcode = sdk_networkIpAddress(pData);
if( SDK_SUCESS != retcode)
                           Dbg Trace(GOS LOG ERR, "\n SET NETWORK IP ADDRESS
FAILED!\n");
                           return SDK_FAILUR;
            break;
        //++设置DDNS参数
        case SDKCMD SET DDNS PARAM:
                    T_SDK_DDNS *pData = (T_SDK_DDNS*)param;
                    retcode = sdk networkDDNS(pData);
                    if ( SDK SUCESS != retcode)
                           Dbg_Trace(GOS_LOG_ERR, "\n SET NETWORK DDNS
FAILED!\n");
                           return SDK_FAILUR;
            break;
        }
        //++设置DNS参数
        case SDKCMD_SET_STATIC_DNS_PARAM:
                    T_SDK_DNS *pData = (T_SDK_DNS*)param;
                    retcode = sdk networkDNS(pData);
                    if ( SDK SUCESS != retcode)
                           Dbg Trace(GOS LOG ERR, "\n SET NETWORK DNS
FAILED!\n");
                           return SDK FAILUR;
```



```
break;
        //++设置NTP参数
        case SDKCMD SET NTP PARAM:
                    #if 0
                    T SDK NTP *pData = (T SDK NTP*)param;
                    retcode = sdk_networkNTP(pData);
                    if ( SDK SUCESS != retcode)
                           Dbg_Trace(GOS_LOG_ERR, "\n SET NETWORK NTP
FAILED!\n");
                           return SDK_FAILUR;
                    #endif
                    T SDK NTP CFG PARAMS *pData = (T SDK NTP CFG PARAMS
*)param;
                    retcode = SDK SetDeviceNtpParam(pData);
                    if( SDK SUCESS != retcode)
                           Dbg_Trace(GOS_LOG_ERR, "\n SDKCMD_SET_NTP_PARAM
FAILED!\n");
                           return SDK FAILUR;
           break;
        case SDKCMD_GET_NTP_PARAM:
                    T SDK NTP CFG PARAMS *pData = (T SDK NTP CFG PARAMS
*)param;
                    retcode = SDK GetDeviceNtpParam(pData);
                    if ( SDK SUCESS != retcode)
                           Dbg Trace(GOS LOG ERR, "\n SDKCMD GET NTP PARAM
FAILED!\n");
                           return SDK FAILUR;
           break;
        }
        //++设置NETGATEWAY参数
        case SDKCMD_SET_STATIC_NETGATEWAY_PARAM:
        {
                    T_SDK_GATEWAY *pData = (T_SDK_GATEWAY*)param;
                    retcode = sdk_networkGateway(pData);
                    if( SDK_SUCESS != retcode)
                           Dbg_Trace(GOS_LOG_ERR, "\n SET NETWORK GATEWAY
FAILED!\n");
                           return SDK FAILUR;
           break;
        //++设置NETMASK参数
        case SDKCMD_SET_STATIC_NETMASK_PARAM:
                    T_SDK_NET_MASK *pData = (T_SDK_NET_MASK*)param;
                    retcode = sdk_networkMask(pData);
                    if( SDK_SUCESS != retcode)
```



```
Dbg Trace(GOS LOG ERR, "\n SET NETWORK NETMASK
FAILED!\n");
                           return SDK_FAILUR;
           break;
        }
        //++设置MAC参数
        case SDKCMD SET MAC PARAM:
                    T SDK NET MAC *pData = (T SDK NET MAC*)param;
                    retcode = sdk networkMac(pData);
                    if ( SDK SUCESS != retcode)
                           Dbg_Trace(GOS_LOG_ERR, "\n SET NETWORK MAC
FAILED!\n");
                           return SDK_FAILUR;
                    }
           break;
        }
        //++设置主机名
        case SDKCMD SET HOSTNAME:
                    T_SDK_HOSTNAME *pData = (T_SDK_HOSTNAME*)param;
                    retcode = sdk networkHostName(pData);
                    if ( SDK SUCESS != retcode)
                           Dbg Trace (GOS LOG ERR, "\n SET NETWORK HOSTNAME
FAILED!\n");
                           return SDK FAILUR;
           break;
        }
        //++获取网络参数
        case SDKCMD GET NETWORK PARAM:
                    T SDK NETWORK PARAMS *pData =
(T_SDK_NETWORK_PARAMS*)param;
                    retcode = sdk getNetworkInfo(pData);
                    if( SDK SUCESS != retcode)
                           Dbg Trace(GOS LOG ERR, "\n GET NETWORK INFO
FAILED!\n");
                           return SDK FAILUR;
           break;
        case SDKCMD_SET_SNAPSHOT_PATH:
            T SDK PIC PATH *param input = (T SDK PIC PATH*)param;
            retcode = SAMPLE_COMM_VENC_SnapProcess(param_input-
>pic_path,2,0);
            if (HI SUCCESS != retcode)
                Dbg Trace(GOS LOG ERR, "\n SAMPLE COMM VENC SnapProcess
FAILED!\n");
            break;
             case SDKCMD_GET_NVR_IP_ADDR:
                    char *param_output= (char *)param;
                    retcode = SDK_Get_NVR_IP_Addr(param_output);
```



```
if (HI SUCCESS != retcode)
                          Dbg_Trace(GOS_LOG_ERR, "\n SDKCMD_GET_NVR_IP_ADDR
FAILED!\n");
                   break:
             case SDKCMD SET NVR IP ADDR:
                   char *param input= (char *)param;
                   retcode = SDK_Set_NVR_IP_Addr(param_input);
                   if (HI_SUCCESS != retcode)
                          Dbg_Trace(GOS_LOG_ERR, "\n SDKCMD_SET_NVR_IP_ADDR
FAILED!\n");
                   break;
             case SDKCMD_GET_SERVER_INFO:
                   char *param input= (char *)param;
                   retcode = SDK_Get_Server_Info(param_input);
                   if (HI SUCCESS != retcode)
                          Dbg_Trace(GOS_LOG_ERR, "\n SDK_Get_Server_Info
FAILED!\n");
                   break;
#if COMM
             case SDKCMD_SET_PTZ_TURN_LEFT:
           retcode = SetIpncRS232MotorPtz S(PTZ TURN LEFT);
           if(0 != retcode)
               return SDK FAILUR;
                   break;
       case SDKCMD_SET_PTZ_TURN_RIGHT:
            {
           retcode = SetIpncRS232MotorPtz S(PTZ TURN RIGHT);
           if(0 != retcode)
               return SDK FAILUR;
                   break;
       case SDKCMD_SET_PTZ_TURN_UP:
            {
                   retcode = SetIpncRS232MotorPtz_S(PTZ_TURN_UP);
           if(0 != retcode)
               return SDK FAILUR;
                   break;
       case SDKCMD SET PTZ TURN DOWN:
                   retcode = SetIpncRS232MotorPtz S(PTZ TURN DOWN);
           if(0 != retcode)
               return SDK_FAILUR;
                   break;
            }
            case SDKCMD_SET_PTZ_STOP:
           retcode = SetIpncRS232MotorPtz S(PTZ SCAN STOP);
           if(0 != retcode)
               return SDK FAILUR;
                   break;
            }
```



```
case SDKCMD SET PTZ KEEP LEFT:
           retcode = SetIpncRS232MotorPtz_S(PTZ_KEEP_TURN_LEFT);
           if(0 != retcode)
               return SDK FAILUR;
                  break;
       case SDKCMD SET PTZ KEEP RIGHT:
           retcode = SetIpncRS232MotorPtz S(PTZ KEEP TURN RIGHT);
           if(0 != retcode)
               return SDK FAILUR;
                   break;
       case SDKCMD SET PTZ KEEP UP:
                   retcode = SetIpncRS232MotorPtz S(PTZ KEEP TURN UP);
           if(0 != retcode)
               return SDK FAILUR;
                   break;
       case SDKCMD SET PTZ KEEP DOWN:
                   retcode = SetIpncRS232MotorPtz S(PTZ KEEP TURN DOWN);
           if(0 != retcode)
               return SDK FAILUR;
                   break;
#endif
            //*********debug相关(a7)*********
       case SDKCMD_SET_DEBUG_LEVEL://设置DEBUG打印等级
           E_SDK_DEBUG_LEVEL param_input = (E_SDK_DEBUG_LEVEL)param;
           retcode = GOS_SDK_Set_Debug_Level(param_input);
           if(0 != retcode)
               return SDK FAILUR;
                   break;
            }
            case SDKCMD UPGRADE BYLOCAL://根据本地升级包升级
           T SDK UPGRADE BYLOCAL PARAMS* param input =
(T SDK UPGRADE BYLOCAL PARAMS*)param;
                   retcode = GOS_SDK_Upgrade_Bylocal(param_input);
                   if (0 != retcode)
                          return SDK FAILUR;
                   break;
             case SDKCMD_UPGRADE_BYSELF: //下载并且升级
                          T_SDK_UPGRADE_BYSELF_PARAMS* param_input =
(T_SDK_UPGRADE_BYSELF_PARAMS*)param;
                          retcode = GOS SDK Upgrade Start(param input);
                          if(0 != retcode)
                                return SDK_FAILUR;
             //************宠物喂食器相关***************
             case SDKCMD SET MANUAL FEED PARAM:
                   T SDK MANUAL FEED PARAM *param input =
(T SDK MANUAL FEED PARAM* ) param;
                   retcode = GOS SDK Set Manual Feed Param(param input);
                   if (0 != retcode)
```



```
return SDK FAILUR;
                    break;
             case SDKCMD GET MANUAL FEED PARAM:
                    T_SDK_FEED_STATUS_PARAM *param_output =
(T SDK FEED STATUS PARAM* ) param;
                    memset(param output, 0, sizeof(T SDK FEED STATUS PARAM));
                    retcode = GOS_SDK_Get_Manual_Feed_Param(param_output);
                    if(0 != retcode)
                          return SDK FAILUR;
                    break;
             case SDKCMD_SET_AUTO_FEED_PARAM:
                    T SDK AUTO FEED PARAM *param input =
(T_SDK_AUTO_FEED_PARAM* )param;
                    retcode = GOS SDK Set Auto Feed Param(param input);
                    if (0 != retcode)
                           return SDK FAILUR;
                    break;
             case SDKCMD GET AUTO FEED PARAM:
                    T SDK_AUTO_FEED_PARAM *param_output =
(T SDK AUTO FEED PARAM* ) param;
                    memset(param_output, 0, sizeof(T_SDK_AUTO_FEED_PARAM));
                    retcode = GOS_SDK_Get_Auto_Feed_Param(param_output);
                    if(0 != retcode)
                           return SDK_FAILUR;
                    break;
             case SDKCMD_SET_FEED_BOWL_SETTING_PARAM:
                    T SDK_FEED_BOWL_SETTING_PARAM *param_input =
(T_SDK_FEED_BOWL_SETTING_PARAM* )param;
                    retcode =
GOS_SDK_Set_Feed_Bowl_Setting_Param(param_input);
                    if (0 != retcode)
                           return SDK FAILUR;
                    break;
             case SDKCMD_GET_FEED_BOWL_SETTING_PARAM:
                    T SDK FEED BOWL SETTING PARAM *param output =
(T_SDK_FEED_BOWL_SETTING_PARAM* )param;
                    memset(param_output, 0,
sizeof(T SDK FEED BOWL SETTING PARAM));
                    retcode =
GOS SDK Get Feed Bowl Setting Param(param output);
                    if(0 != retcode)
                          return SDK_FAILUR;
                    break;
             case SDKCMD_SET_DEDUCT_WEIGHT_PARAM:
                    retcode = GOS_SDK_Set_Deduct_Weight_Param();
                    if (0 != retcode)
                           return SDK_FAILUR;
                    break;
             }
             case SDKCMD_SET_FEED_CALIBRATION_PARAM:
                    retcode = GOS SDK Set Feed Calibration Param();
                    if (0 != retcode)
                           return SDK FAILUR;
                    break;
```



```
case SDKCMD_SET_BOWL_SWITCH_PARAM:
                    T SDK FEED BOWL SWITCH PARAM *param input =
(T_SDK_FEED_BOWL_SWITCH_PARAM* ) param;
                    retcode
GOS_SDK_Set_Feed_Bowl_Switch_Param(param_input);
                    if (0 != retcode)
                          return SDK FAILUR;
                    break;
             }
             case SDKCMD_GET_FEED_REMAIN_PARAM:
                    T_SDK_FEED_REMAIN_PARAM *param_output =
(T_SDK_FEED_REMAIN_PARAM* )param;
                    memset(param_output, 0, sizeof(T_SDK_FEED_REMAIN_PARAM));
                    retcode=GOS SDK Get Feed Remain Param(param output);
                    if (0 != retcode)
                          return SDK FAILUR;
                    break;
             }
             */
             default:
                    Dbg Trace(GOS LOG ERR, "\nNot support this CMD!\n");
                    break;
             }
      return retcode;
int SDK_Cmd_Impl(unsigned int un_cmd, void* p_config_param)
      int retcode = -1;
      switch (un cmd)
             case SDKCMD SYS INIT:
                    retcode = SDK_sysInit();
                    if(retcode)
                           Dbg Trace(GOS LOG ERR, "\nSDK sysInit Error,
ERRCODE: %d\n", retcode);
                           return retcode;
                    break;
             case SDKCMD_SYS_EXIT:
                    retcode = SDK_sysExit();
                    if(retcode)
                           Dbg_Trace(GOS_LOG_ERR, "\nSDK_sysExit Error,
ERRCODE: %d\n", retcode);
                           return retcode;
                    break;
             case SDKCMD SYS RUN:
                    retcode = SDK sysRun();
```



```
if(retcode)
                           Dbg_Trace(GOS_LOG_ERR, "\nSDK_sysRun Error,
ERRCODE: %d\n", retcode);
                           return retcode;
                    break;
             default:
                    retcode = SDK_treatCmdOnFly(un_cmd,
(void*)p_config_param);
                    if(retcode)
                           Dbg_Trace(GOS_LOG_ERR, "SDK_treatCmdOnFly Error,
ERRCODE: %d\n", retcode);
                           return retcode;
                    break;
      return retcode;
#ifdef __cplusplus
#if __cplusplus
#endif
#endif /* __cplusplus */
```

# 9 参考

# 9.1 分辨率



```
{"xga", 1024, 768},
{"vga", 640, 480},
{"wvga", 800, 480},
{"fwvga", 854, 480},
                        //a 16:9 style
{"cif", 352, 288},
{"sif", 352, 240},
{"qvga", 320, 240},
{"qwvga", 400, 240},
{"qcif", 176, 144},
{"qsif", 176, 120},
{"qqvga", 160, 120},
{"svga", 800, 600},
{"sxga", 1280, 1024},
{"480i", 720, 480},
{"576i", 720, 576},
{"1080i", 1920, 1080},
{"", 0, 0},
{"1920x1080", 1920, 1080},
{"1600x1200", 1600, 1200},
{"1440x1080", 1440, 1080},
{"1366x768", 1366, 768},
{"1280x1024", 1280, 1024},
{"1280x960", 1280, 960},
{"1280x720", 1280, 720},
{"1024x768", 1024, 768},
{"720x480", 720, 480},
{"720x576", 720, 576},
{"", 0, 0},
{"704x480", 704, 480},
{"704x576", 704, 576},
{"640x480", 640, 480},
{"352x288", 352, 288},
{"352x256", 352, 256},
                         //used for interlaced MJPEG 352x256 encoding (crop to 352x240 by app)
{"352x240", 352, 240},
{"320x240", 320, 240},
{"176x144", 176, 144},
```





```
{"176x120", 176, 120},
     {"160x120", 160, 120},
     //vertical video resolution
     {"480x640", 480, 640},
     {"480x854", 480, 854},
    //for preview size only to keep aspect ratio in preview image for different VIN aspect ratio
     {"16_9_vin_ntsc_preview", 720, 360},
     {"16_9_vin_pal_preview", 720, 432},
     {"4_3_vin_ntsc_preview", 720, 480},
     {"4_3_vin_pal_preview", 720, 576},
     {"5_4_vin_ntsc_preview", 672, 480},
     {"5_4_vin_pal_preview", 672, 576},
     {"ntsc_vin_ntsc_preview", 720, 480},
     {"pal_vin_pal_preview", 720, 576},
};
  9.2 音频采样率
static unsigned const samplingFrequencyTable[16] =
 96000, 88200, 64000, 48000,
 44100, 32000, 24000, 22050,
 16000, 12000, 11025, 8000,
 7350, 0, 0, 0
};
```