# Alarm Camera CGI Guide

## 一、New CGI

### 1、Get sensor status

CGI：/get_sensorstatus.cgi?loginuse=admin&loginpas=888888&user=admin&pwd=888888&

Return：cmd：0x60b2

armsetstatus=1; (0:disarm; 1:arm)
alarmstatus=0; (0:no alarm 1:alarming)
codestatus=0; (0:Cancel making pair 1:Make pair)
doorbell=0; (1：Enable 0：Disable)
ptzspeed = 0; (0-10 more value, greater rotation speed)

### 2、Get sensor list

CGI：GET
/get_sensorlist.cgi?loginuse=admin&loginpas=888888&user=admin&pwd=888888&

Return：cmd：0x60b6 (Note: If id1 / id2 / id3 all 0 or all of 255 means that the sensor is invalid; Sensors are used to display the ID of id1 / id2 / id3 converted to hexadecimal and then spliced into a string (the blow sample sensor ID is 01F0FF) )

```
sensorid1[0]=1;//01
sensorid2[0]=16;//F0
sensorid3[0]=255;//FF
sensortype[0]=0x01; (
typedef enum {
    SENSOR_TYPE_DOOR = 0x01:door sensor
    SENSOR_TYPE_INFRARED = 0x02:PIR
    SENSOR_TYPE_SMOKE = 0x03:smoke sensor
    SENSOR_TYPE_SMELL = 0x04:gas sensor
    SENSOR_TYPE_REMOTE = 0x07:remote control
    SENSOR_TYPE_SIREN = 0x08:siren
    SENSOR_TYPE_CAMERA = 0x0A:camera
    SENSOR_TYPE_CURTAIN = 0x0B: Curtain PIR
} SENSORTYPE;
)
sensorstatus[0]=0;
presetid[0]=0;// preset position of linkage(1-16)
sensorname[0]="gg";//sensor name
```

### 3、Get alarm log

CGI：
/get_alarmlog.cgi?logid=0&sensorid=1&loginuse=admin&loginpas=888888&user=admin&pwd=888888&

Return：cmd：0x60b5

ncount=100;//alarm log total number
armtype=0;//alarm type (1:motion detection 2:IO 3:sensor alarm)
alarmdvsname[0]="";//the alarm sensor name
time[0]=1379146962;//the alarm time
dvstype[0]=7;//the alarm sensor type
actiontype[0]=6;//alarm action

### 4、Delete sensor

CGI:/del_sensor.cgi?sensorid=31&loginuse=admin&loginpas=888888&user=admin&pwd=888888&

Parameter: sensorid(As mentioned 2, the index number in the range: 0-31)

Return: cmd: 0x60b3 Data: result=0;

### 5、Set sensor name

CGI: GET
/set_sensorname.cgi?sensorid=30&sensorname=ggg&loginuse=admin&loginpas=888888&user=admin&pwd=888888&

Parameter: sensorid: (As mentioned 2, the index number in the range: 0-31)

sensorname: the sensor name

Return: cmd: 0x60b4 Data: result=0;

### 6、Set alarm preset position

CGI:
/set_sensor_preset.cgi?sensorid=30&presetid=2&loginuse=admin&loginpas=888888&user=admin&pwd=888888&
Parameter: presetid
: (0-16) 0: not bind the preset position; 1-16:the preset position index to bound
sensorid: sensor id

### 7、Get alarm prestion position

CGI:
/get_sensor_preset.cgi?cmd=0&sensorid=0&loginuse=admin&loginpas=888888&user=admin&pwd=888888&
Parameters:
cmd
0: Get the corresponding preset bound sensorid
1: Get guard position of the camera, now the sensorid invalid
sensorid: Get preset by the sensor ID

Return:
result: 0:Success -1:Fail
cmd:value from CGI
presetid: Binding preset or guard position

sensorid:channel id (note:if CMD=1, the value is invalid; if CMD=0, represent channel)

8: Set sensor status

CGI: GET /set_sensorstatus.cgi?cmd=0& doorbell =0& ptzspeed=0&loginuse=admin&loginpas=888888&user=admin&pwd=888888&

Parameters: cmd: 0: arm 1:disarm 2:make pair 3:cancel making pair 4: set doorbeel status(doorbell = 1 enable, 0: disable) 5:set the PTZ speed on alarm (ptzspeed = 0-10 more value more faster)

Note: doorbell: when cmd = 4 it is valid

ptzspeed: when cmd=5 it is valid

Return: result =0: 0 success -1 fail

cmd=0: 0: arm 1:disarm 2:make pair 3:cancel making pair 4: set doorbeel status 5: set the PTZ speed on alarm

9、Get alarm snapshot file

GET /get_alarmsnapshot_file.cgi?snapshotIndex=23&loginuse=admin&loginpas=&user=admin&pwd=&

Parameters: none

Return: //the max file number is 50

result = 0; //0: File not get completed -1: Get complete file

snapshotCount = 50;//total file number

pagecount = 20;//the file number

snapshot_name[0] = "20131009085724_7_7_FF00EF_1.jpeg";

/*time_sensor type_alarm type_(sensor ID)_ Identifier*/

10: Alarm-related data structures

```
typedef struct tag_STRU_SENSOR_ALARM_INFO{
    int cmd;//1:push alarm message   2:snapshot    3:action :  (note: 2 and 3 have no sensor information)
    int SensorID[3];//sensor ID (for display. CGI does not use this value, it uses the blow "channel" )
    int LinkPreset;//preset position
    char SensorName[64];//sensor name
    int Sensortype;//sensor type/*typedef enum {
    SENSOR_TYPE_DOOR = 0x01,//door sensor
    SENSOR_TYPE_INFRARED = 0x02,// PIR
    SENSOR_TYPE_SMOKE = 0x03,//smoke sensor
    SENSOR_TYPE_SMELL = 0x04,//gas sensor
    SENSOR_TYPE_REMOTE = 0x07,//remote control
    SENSOR_TYPE_CAMERA = 0x0A,//camera
```

```
    SENSOR_TYPE_CURTAIN = 0x0B//curtain PIR
} SENSORTYPE;*/
    int SensorAction;//action type/*typedef enum {
    SENSOR_ALARM_ACTION_NON = 0x00,//none
    SENSOR_ALARM_ACTION_ALARM = 0x01,//alarm
    SENSOR_ALARM_ACTION_LOWBATT = 0x02,//low voltage
    SENSOR_ALARM_ACTION_GARRISON = 0x05,//arm
    SENSOR_ALARM_ACTION_CANCELGARRISON = 0x06,//disarm
    SENSOR_ALARM_ACTION_SOS = 0x07,// Emergency alarm
    SENSOR_ALARM_ACTION_OPENCODE = 0x08,//make pair
    SENSOR_ALARM_ACTION_DOORBELL = 0x0A,//door bell
    SENSOR_ALARM_ACTION_OPEN = 0x0B,//find new sensor
    SENSOR_ALARM_ACTION_CLOSE = 0x0C,//close
    SENSOR_ALARM_ACTION_CAMGROUP = 0x0D,//camera group
    SENSOR_ALARM_ACTION_CANCELALARM = 0x0E,//cancel alarm
    SENSOR_ALARM_ACTION_ADDNEWSENSOR = 0x0F,//save already
    SENSOR_ALARM_ACTION_DELETEALL = 0x10,//delete all sensors
    SENSOR_ALARM_ACTION_EXITCODE = 0x11//cancel making pair
    } SENSORALARMACTION;*/
    int channel;//sensor channel (for CGI parameter sensorid)
}STRU_SENSOR_ALARM_INFO, *PSTRU_SENSOR_ALARM_INFO;
```

## 二、New values based on the original CGI

1、CGI: GET/checkuser.cgi&loginuse=admin&loginpas=888888&user=admin&pwd=888888&
User-1 : user name is incorrect, but password is correct.
Password-2 :user name is correct, but the password is incorrect.
User and password-3 : user name and password are incorrect.

2、GET /get_status.cgi?loginuse=admin&loginpas=&user=admin&pwd=&
alarm_module_version=16;//RF module version

alarm_module_id[0]=0;//

alarm_module_id[1]=3;//

alarm_module_id[2]=214;//Sensor ID

alarm_module_rebootnum=0;//RF module restart number

3、SD card recrod: fileName add new bit,such as 20130915095712_100X.h264 (X:0 the old alarm file X: 1 the sensor alarm file)

4、Alarm.asp

/alarm.asp add new parameters:
&stype=1&sid1=12&sid2=12&sid3=23&sname="test"&salarmtype=2
&salarmsnapshotfile="20131012085838_7_7_30_ffff70_1.jpeg"&
stype:sensor type

sid1/sid2/sid3：sensor ID

sname：sensor name

salarmtype：sensor action type

salarmsnapshotfile：alarm snapshot file name

5、Get alarm snapshot from P2P 6th channel

GET/
livestream.cgi?streamid=5&filename=%s&offset=0&loginuse=admin&loginpas=888888&user=admin&pwd=888888&

Data structure：

HEAD+ (64bit) **file name** + picture data

**Head structure：**

```
typedef struct tag_AV_HEAD
{
    unsigned int        startcode;  //  0xA815AA55
    char                type;       //  4
    char            streamid;   //
    unsigned short militime;   //
    unsigned int        sectime;    //
    unsigned int        frameno;    //
    unsigned int        len;// data length

    unsigned char       version;        //
    unsigned char       sessid;
    unsigned char       other[2];
    unsigned char       other1[8];
}AV_HEAD,*PAV_HEAD;
```