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1 概述

1.1 http 请求格式（URL）

Format:
http://<camera host>/<CGI-URL>?<CMD_ID>=<command>&<parameter>=<value>

Example: http://192.168.2.12:80/cgi-bin/device_status.cgi?CMD_ID=setCameraPowerStatus& VALUES =on

Response:

```
{
  "CMD_ID": "setCameraPowerStatus",
  "CODE": "0",
  "MSG": "",
  "VALUES": "on"
}
```

说明：CMD_ID : 为请求的命令；
 CODE : 0 表示成功，其他表示失败；
 MSG : 失败返回的描述，如：不支持这个命令；
 VALUES : 请求设置成功的值；

1.2 TCP/UDP 请求格式（socket）

DataType:
json

Request:
{"CMD_ID": "setCameraPowerStatus", " VALUES ":"on/off"}

Response:

```
{
  "CMD_ID": "setCameraPowerStatus",
  "CODE": "0",
  "MSG": "",
  "VALUES": "on"
}
```

数据格式说明：

	4 bytes(type)		4bytes(date length)		data	
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type 为数据类型，类型为 int，1 表示 data 为 json 的数据格式；2 表示 data 为 audio 数据；
date length 为 int 类型，表示后面携带的数据的长度；
data 为传输携带的数据。

2 API Command Reference

2.1 /cgi-bin/device_status.cgi

Get or Set Device Status and Information
Request method: GET/POST/SOCKET

command	parameter	value	response	description
setCameraPowerStatus	VALUES	on or off	{ "CMD_ID": "setCameraPowerStatus", "CODE": "0", "MSG": "", "VALUES": "" }	Setting Camera Power on or off
getCameraPowerStatus	none	none	{ "CMD_ID": "getCameraPowerStatus", "CODE": "0", "MSG": "", "VALUES": "on/off" }	
setPowerLedStatus	VALUES	enable or disable	{ "CMD_ID": "setPowerLedStatus", "CODE": "0", "MSG": "", "VALUES": "" }	Setting Power Led Status
getPowerLedStatus	none	none	{ "CMD_ID": "getPowerLedStatus", "CODE": "0", "MSG": "", "VALUES": "enable/disable" }	
setMicStatus	VALUES	enable or disable	{ "CMD_ID": "setMicStatus", "CODE": "0", "MSG": "", "VALUES": "" }	Setting Mic Status
getMicStatus	none	none	{ "CMD_ID": "getMicStatus", "CODE": "0", "MSG": "", "VALUES": "enable/disable" }	
setInfraredLedStatus	VALUES	enable or disable	{ "CMD_ID": "setInfraredLedStatus", "CODE": "0", "MSG": "", "VALUES": "" }	Setting Infrared Lamp mode
getInfraredLedStatus	none	none	{ "CMD_ID": "getInfraredLedStatus", "CODE": "0", "MSG": "", "VALUES": "enable/disable" }	
getFirewareVersion	none	none	{ "CMD_ID": "getFirewareVersion", "CODE": "0", "MSG": "", "VALUES": " v3.0.0.0" }	Get Device Current Fireware Version

setFirewareUpgrade	VALUES	downloadUrl	{ "CMD_ID": "setFirewareUpgrade", "CODE": "0", "MSG": "", "VALUES": "" }	downloadUrl 为 APP 通过 OTA 服务器查询到的最新固件下载地址
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2.2 /cgi-bin/viewOperate.cgi

Get or Set camera stream parameter
Request method: GET/POST/SOCKET

command	parameter	value	response	description
setflipVertical	VALUES	enable or disable	{ "CMD_ID": "setflipVertical", "CODE": "0", "MSG": "", "VALUES": "" }	Mirror flip Vertical
getflipVertical	none	none	{ "CMD_ID": "getflipVertical", "CODE": "0", "MSG": "", "VALUES": "enable/disable" }	
setResolution	VALUES	H,M,L	{ "CMD_ID": "setResolution", "CODE": "0", "MSG": "", "VALUES": "" }	H 高清: 1920*1080P M 标清: 1080*720P L 普通: 640*480P
getResolution	none	none	{ "CMD_ID": "getResolution", "CODE": "0", "MSG": "", "VALUES": "H/M/L" }	

2.3 /cgi-bin/motion.cgi

Get or Set motion parameter

Request method: GET/POST/SOCKET

command	parameter	value	response	description
setMotion	VALUES	enable or disable	{ "CMD_ID": "setMotion", "CODE": "0", "MSG": "", "VALUES": "" }	Set motion detect status
getMotion	none	none	{ "CMD_ID": "getMotion", "CODE": "0", "MSG": "", "VALUES": "enable/disable" }	Get motion detect status
setMotionSensitivity	VALUES	L,M,H	{ "CMD_ID": "setMotionSensitivity", "CODE": "0", "MSG": "", "VALUES": "" }	高、中、低三个灵敏度
getMotionSensitivity	none	none	{ "CMD_ID": "getMotionSensitivity", "CODE": "0", "MSG": "", "VALUES": "L/M/H" }	
setMotionFrequency	VALUES	L,M,H	{ "CMD_ID": "setMotionFrequency", "CODE": "0", "MSG": "", "VALUES": "" }	Setting motion frequency level
getMotionFrequency	none	none	{ "CMD_ID": "getMotionFrequency", "CODE": "0", "MSG": "", "VALUES": "L/M/H" }	
setMotionTime	VALUES	0:24	{ "CMD_ID": "setMotionTime", "CODE": "0", "MSG": "", "VALUES": "" }	0:24表示设置为0到24小时， 12:12表示12时这个小时， 12:15表示12时到15时这个时间段。
getMotionTime	none	none	{ "CMD_ID": "getMotionTime", "CODE": "0", "MSG": "", "VALUES": "0:24" }	

2.4 /cgi-bin/network.cgi

Get network information

Request method: GET/POST/SOCKET

command	parameter	value	response	description
getWirelessInfo	none	none	<pre>{ "CMD_ID": "getWirelessInfo", "CODE": "0", "MSG": "", "VALUES": { "ssid": "WIFIAP", "IPv4": "192.168.1.5", "macaddr": "AA:BB:CC:DD:EE:FF" } }</pre>	获取设备网络信息，如果其中某个值不存在，则返回值填空。

2.5 /cgi-bin/sdcard.cgi

Get sdcard status and sdcard operation
Request method: GET/POST/SOCKET

command	parameter	value	response	description
getSDCardStatus	none	none	{ "CMD_ID": "getSDCardStatus", "CODE": "0", "MSG": "", "VALUES": { "status": "mount/unmount", "totalsize": "16GB", "available": "5GB" } }	status 表示状态； totalsize 表示总共大小； available 表示可用大小。
formatting	none	none	{ "CMD_ID": "formatting", "CODE": "0", "MSG": "", "VALUES": "" }	Format sdcard
stopSDCard	none	none	{ "CMD_ID": "stopSDCard", "CODE": "0", "MSG": "", "VALUES": "" }	UnMount sdcard
mountSDCard	none	none	{ "CMD_ID": "mountSDCard", "CODE": "0", "MSG": "", "VALUES": "" }	Mount sdcard
getFileList	orderBy	1、 2、 http 请求： http://ip:port//url?orderBy=time&start=1&count=100; socket 请求： {“orderBy”:“time”,“start”:1,”count”:100}	{ "CMD_ID": "getFileList", "CODE": "0", "MSG": "", "VALUES": [{ "name": "A", "type": "mp4/jpg", "dataModify": "2018/12/11 14:30:30 PM", "size": "1k MB", "isFolder": "false", "orderBy": "name" }, { "name": "B", "type": "mp4/jpg", "dataModify": "2018/12/11 14:30:30 PM", "size": "1k MB", "isFolder": "false", "orderBy": "name" }] }	排序， time/name/size
	start			返回分页的起始索引
	count			分页每一页返回的数量。举例，文件夹数量为 50，如果需要分两页返回， 第一页：start=1，count=25 第二页，start=26，count=25

2.6 /cgi-bin/device_info.cgi

Get all device information
Request method: GET/POST/SOCKET

command	parameter	value	response	description
getDeviceInfo	none	none	<pre>{ "CMD_ID": " getDeviceInfo ", "CODE": "0", "MSG": "", "VALUES": { "powerStatus": "on/off", //摄像机开关 "powerLedStatus": "enable/disable", //设置状态灯开关 "flipVertical": "enable/disable", //图像垂直翻转 "micStatus": "enable/disable", //机麦克风 "infraredLedStatus": "enable/disable", //夜视红外灯 "motion": "enable/disable", //移动侦测 "motionSensitivity": "L/M/H", //报警灵敏度 "motionFrequency": "L/M/H", //报警频率 "motionTime": "0:24", //报警时间 "resolution": "H/M/L", //解析度 "firewareVersion": "v3.0.0.0", //设备当前固件版本号 "SDCardStatus": { //SDCard 状态 "status": "mount/unmount", "totalsize": "16GB", "available": "5GB" }, "wirelessInfo": { //wifi 信息 "ssid": "WIFIAP", "IPv4": "192.168.1.5", "macaddr": "AA:BB:CC:DD:EE:FF" } } }</pre>	统一获取设备相关信息

2.7 /cgi-bin/deviceCtrl.cgi

command	parameter	value	response	description
move_up	none	none	<pre>{ "CMD_ID": "move_up ", "CODE": "0", "MSG": "", "VALUES": "" }</pre>	Control device move up step
move_down	none	none	<pre>{ "CMD_ID": "move_down ", "CODE": "0", "MSG": "", "VALUES": "" }</pre>	Control device move down step
move_left	none	none	<pre>{ "CMD_ID": "move_left ", "CODE": "0", "MSG": "", "VALUES": "" }</pre>	Control device move left step
move_right	none	none	<pre>{ "CMD_ID": "move_right ", "CODE": "0", "MSG": "", "VALUES": "" }</pre>	Control device move rights step