OBSBOT Tail HTTP API Document V1.0.3

➢ Introduction

This document is an introduction about how to communicate with OBSBOT Tail via http request. These commands are divided into four parts. Such as AI、Gimbal、Camera and Others.
You can access Tail through http://${device ip}:27739/${path}. The http port is 27739.

➢ AI

- Get AI status

Method	Path	Query	Body	Response
GET	/obsbot/tail/ai			AI Status

Response:

Data	Descrption
aisdk	0-off , 1-on
tracking	0-off , 1-on
handpose	0-off , 1-on
speedMode	Speed mode
capture	ignore
capsf	ignore
capsa	ignore
xoffset	horizontal control offset
yoffset	vertical control offset
ready	0-AI init , 1-AI init ready
clipSec	ignore
clipMaxNo	ignore
defaultView	0-landscape , 1-Portrait
autozoom	0-off , 1-on
targetType	ignore
pan	Ignore
pitch	Ignore

car	ignore
version	AI version

- Set AI status

Method	Path	Query	Body	Response
POST	/obsbot/tail/ai		'cmd' : 'SdkSetConfig', "key" : ${KeyID}, "val" : ${Val}	

${KeyID}	AI_CFG_ENABLE	0	0-off, 1-on
	AI_CFG_CAPTURE	1	0-off, 1-on
	AI_CFG_HANDPOSE	2	0-off, 1- on
	AI_CFG_GIMBAL_LOCK	3	0-tracking on, 1-tracking off
	AI_CFG_DEFAULT_VIEW	4	0-landscape, 1-portrait
	AI_CFG_AUTOZOOM	5	0-off, 1-on
	AI_CFG_TARGET_TYPE	6	0-hunman, 1-pets

- Select tracking object

Method	Path	Query	Body	Response
POST	/obsbot/tail/ai		'cmd' : 'SdkSetTargetByPoint', "x" : x, "y" : y	

(x, y) – the selected position, range (0,1), the normalized coordinates of the entire image.

- Set default track target

Method	Path	Query	Body	Response
POST	/obsbot/tail/ai		'cmd' : 'SdkSetTargetByDefault', "mode" : ${TS_MODE}	

${ TS_MODE }	TS_AUTO	0	自动选择画面中最显著的目标
	TS_GROUP	1	选择为多人模式

- Get track target info

Method	Path	Query	Body	Response
POST	/obsbot/tail/ai		'cmd' : 'SdkFetchTargetInfo'	

Response:

```
[
    {
        'id':$ID,          // targetID
        "alive" : true/false, //   if target is alive
        'xmin':$XMIN,   // the normalized coordinates of the entire image
        'ymin':$YMIN,
    },
    ...
]
```

Note：Only one default target or no target。

➢ Gimbal

- Get gimbal status

Method	Path	Query	Body	Response
GET	/obsbot/tail/ai/gimbal			Gimbal status

- Lock gimbal / unlock gimbal

Method	Path	Query	Body	Response
POST	/obsbot/tail/ai/gimbal		'cmd' : 'lock' , "mode" : ${LOCK}	

${LOCK}	UNLOCK	0
	LOCK	1

- Get gimbal preset location list

Method	Path	Query	Body	Response
HTTP	/obsbot/tail/ai/gimbal	POST	'cmd' :' presetQuery'	

Response：

```
[
    {'id':$ID, 'roll':$ROLL, 'pitch':$PITCH, 'pan':$YAW, 'ratio':$RATIO}
    … // other preset locations
]
```

- Add preset location

Method	Path	Query	Body	Response
HTTP	/obsbot/tail/ai/gimbal	POST	'cmd' :' presetAdd' 'id" :$ID 'roll" :$ROLL 'pitch" :$PITCH 'pan' :$PAN, "ratio" : $RATIO	

Note：If you don' t want to control ROLL, please set roll to 1000, otherwise it should be set to a valid value;

- Delete preset location

Method	Path	Query	Body	Response
HTTP	/obsbot/tail/ai/gimbal	POST	“cmd” :” presetRemove” “id” :$ID	

- Enable preset location

Method	Path	Query	Body	Response
HTTP	/obsbot/tail/ai/gimbal	POST	“cmd” :” presetTrigger” “id” :$ID	

➢ Camera

- Get camera status

Method	Path	Query	Body	Resonse
GET	/obsbot/tail/ai/camera			Camera status

- Zoom

Method	Path	Query	Body	Response
POST	/obsbot/tail/ai/camera		“cmd” : “SetZoomRatio”, “type” : ${TYPE}, “speed” : speed, “ratio” : ratio	
${TYPE}	HYBRID		0	

➢ Other

If you use Tail on AP mode, you can access it through http:// 192.168.0.1:80
If you use Tail on Station mode, you can access it through http:// [device ip]:80

1. Set WIFI mode

Request:

Method	BODY	Description
POST	{ “msg_id” : 510 “mode” :1 “ssid” : ” ${ssid}” “passwd” : “${password}” }	**mode:** 1 –AP Mode , 0–Station Mode。 If you want to set AP Mode , please ignore ssid and passwd **ssid:** SSID of the WIFI you will connect **passwd:** Password of the WIFI

Response:

HEADER	BODY	Description
200 means OK Other codes mean fault	None	

2. Get WIFI info

Request:

Method	BODY	Description

POST	{
	“msg_id” : 511
	}	

Response:

HEADER	BODY	Description

200 means OK
Other codes mean fault
	{
	“mode” : 0
	“ssid” : OBSBOT_abcdef
	“passwd” : 12345678
	“mac_addr” : AB:CD:EF:FE:DC:BA
	}
		mode:
		1 –AP Mode , 0–Station Mode
		ssid:
		On AP Mode, Tail ‘s WIFI ssid
		passwd:
		On AP Mode, Tail ‘s WIFI password
		mac_addr:
		On AP Mode, WIFI ‘s Mac Adress

3. Set focal length

Request:

Method	BODY	Description

POST	{
	“msg_id” : 802
	“pos” :0
	“speed” : 0
	}
		pos:
		range[0–255]
		divide the 1–3.5x into 256 segments, 0 means the widest angle, 255 means the longest focal length
		speed:
		zoom speed , range[0–100],
		0 means the slowest speed, 100 means the fastest speed

Response:

HEADER	BODY	Description
200 means OK Other codes mean fault	None	None

4. Get zoom info

Request:

Method	BODY	Description
POST	{“msg_id” : 803}	

Response:

HEADER	BODY	Description

200 means OK
Other codes mean fault
	{
	“pos” :0
	“speed” : 0
	}
		pos:
		range[0-255]
		divide the 1-3.5x into 256 segments, 0 means the widest angle, 255 means the longest focal length
		speed:
		zoom speed , range[0-100], 0 means the slowest speed, 100 means the fastest speed

5. Focus(Focus only once)

Request:

Method	BODY	Description

POST	{
	“msg_id” : 701
	“x” :0
	“y” : 0
	}
		x, y:
		{0,0,100,100},
		the normalized coordinates of the entire image
		{0,0} represents the upper left corner,
		{100,100} represents the lower right corner.

Response:

HEADER	BODY	Description
200 means OK Other codes mean fault	None	None