Foream Wireless Remote Control API

Version 1.0.1

March 9,2016

1. System Command:

1.1 AMBA_GET_DEVICEINFO

Message ID: msg_id: 0x0000000b(11)

API Overview:

Description: This API is used to retrive information related to the camera device itself, such as the model name, serial number and firmware version.
Direction: From the APP to the camera.

Example:

Arguments:
{"token": TokenNumber, "msg_id":11}
Successful return:
{"rval":0,"msg_id":11,"param":{"model":"Compass","fw_ver":"Ver3.0.2.5","serial_number":"86D IGLLJONK4HP86"}}

1.2 AMBA_GET_DEVICE_STATUS

Message ID: msg_id: 0x00000011(17)

API Overview:

Description: This API is used to retrive current status related to the camera device itself, such as the recording status, capture mode etc..
Direction: From the APP to the camera.

Example:

Arguments:
{"token": TokenNumber, "msg_id":17}
Successful return:
{"rval":0,"msg_id":17,"param":{"vres":0,"pres":0,"adapter":1,"battery":0,"available":4528352,"capacity":7753728,"rec_timelapse":0,"rec_status":0,"capture_mode":0}}

1.3   AMBA_GET_ALL_CURRENT_SETTINGS

Message ID: msg_id: 0x00000003(3)

API Overview:

Description: This API is used to retrive all setting related to the camera device itself, such as the video resolution, photo size etc.
Direction: From the APP to the camera.

Example:

Arguments:
{"token": TokenNumber, "msg_id":3}
Successful return:
{ "rval": 0, "msg_id": 3, "param": [{ "stream_out_type": "tcp" }, { "video_resolution": "1" }, { "photo_size": "0" }, { "timelapse_interval": "0" }, { "timelapse_mode": "6" }, { "key_sensitivity": "1" }, { "led": "0" }, { "ap_auto_start": "0" }, { "camera_auto_off": "1" }, { "ap_password": "0987654321" }] }

1.4   AMBA_SET_SETTING

Message ID: msg_id: 0x00000002(2)

API Overview:

Description: This API is used to set the single setting related to the camera device itself, such as the video resolution, photo size etc.
Direction: From the APP to the camera.

Example:

Arguments:
{"msg_id" : 2,"param" : "1","token" : TokenNumber,"type" : "video_resolution"}
{"msg_id" : 2,"param" : "1234567890","token" : 1,"type" : "ap_password"}
Successful return:
{ "rval": 0, "msg_id": 2 , "param": "1"}
{ "rval": 0, "msg_id": 2 , "param": "1234567890"}

1.5   AMBA_FORMAT

Message ID: msg_id: 0x00000004(4)

API Overview:

Description: This API is used to format the camera SD card.
Direction: From the APP to the camera.

Example:

Arguments:
{"msg_id" : 4,"param" : "D:","token" : 1}

Successful return:
{"rval":0,"msg_id":4}

1.6   AMBA_NOTIFICATION

Message ID: msg_id: 0x00000007(7)

API Overview:

Description: Notifications are send from the camera to the APP to notify it of events, such as manual button presses and task completions.
Direction: From the camera to APP

Notification List:

start_video_record: start record button pressed
stop_video_record: stop record button pressed
start_photo_capture: photo capture button pressed
start_photo_timelapse: start photo timelapse button pressed
start_video _timelapse: start video timelapse button pressed
Example:{ "msg_id": 7, "type": "start_photo_capture" }

switch_to_rec_mode: mode button pressed and switch to record mode
switch_to_cap_mode: mode button pressed and switch to capture mode
switch_to_video_timelapse_mode: mode button pressed and switch to video timelapse mode
switch_to_photo_timelapse_mode: mode button pressed and switch to photo timelapse mode
Example:{ "msg_id": 7, "type": "switch_to_cap_mode" }

photo_taken: complete photo taken and return the photo path and the free space
Example: { "msg_id": 7, "type":
"photo_taken" ,"param":{"path":"/tmp/fuse_d/DCIM/100MEDIA/IMGN0033.jpg","available":452
6816}}
video_record_complete: complete recording and return the video path and the free space
Example:{ "msg_id": 7, "type":
"photo_taken" ,"param":{"path":"/tmp/fuse_d/DCIM/100MEDIA/IMGN0033.jpg","available":452
6816}}

battery: battery changed, and return the battery value
Example: { "msg_id": 7, "type": "battery" ,"param": 40}
adapter: USB cabel connected
Example: { "msg_id": 7, "type": "adapter" ,"param":0}

sd card status: card inserted or removed
Example: { "msg_id": 7, "type": "sd_card_status" ,"param":"remove"}
         { "msg_id": 7, "type": "sd_card_status" ,"param":"insert"}

Error notification:
STORAGE_RUNOUT
STORAGE_IO_ERROR
LOW_SPEED_CARD
CARD_REMOVED

1.7   AMBA_SWITCH_RECORD_MODE

Message ID: msg_id: 0x0000012(18)

API Overview:

Description: This API is used to switch the capture mode to record mode.
Direction: From the APP to the camera.

Example:

Arguments:
{"msg_id" : 18,"token" : 1}

Successful return:
{"rval":0,"msg_id": 18}

1.8   AMBA_SWITCH_SINGLE_PHOTO_MODE

Message ID: msg_id: 0x0000013(19)

API Overview:

Description: This API is used to switch the capture mode to single photo mode.
Direction: From the APP to the camera.

Example:

Arguments:
{"msg_id" : 19,"token" : 1}

Successful return:
{"rval":0,"msg_id": 19}

1.9   AMBA_SWITCH_PHOTO_TIMELAPSE_MODE

Message ID: msg_id: 0x00000014(20)

API Overview:

Description: This API is used to switch the capture mode to photo timelapse mode.
Direction: From the APP to the camera.

Example:

Arguments:
{"msg_id" : 20,"token" : 1}

Successful return:
{"rval":0,"msg_id": 20}

2.0   AMBA_SWITCH_VIDEO_TIMELAPSE_MODE

Message ID: msg_id: 0x00000015(21)

API Overview:

Description: This API is used to switch the capture mode to photo timelapse mode.
Direction: From the APP to the camera.

Example:

Arguments:
{"msg_id" : 21,"token" : 1}

Successful return:
{"rval":0,"msg_id":21}

2.1　　AMBA_RECORD_START

Message ID: msg_id: 0x00000201(513)

API Overview:

Description: This API is used to initiate camera video recording.
Direction: From the APP to the camera.

Example:

Arguments:
{"msg_id" : 513,"token" : 1}

Successful return:
{"rval":0,"msg_id":518}

2.2　　AMBA_RECORD_STOP

Message ID: msg_id: 0x00000202(514)

API Overview:

Description: This API is used to terminate camera video recording on the camera.
Direction: From the APP to the camera.

Example:

Arguments:

{"msg_id" : 514,"token" : 1}

Successful return:
{"rval":0,"msg_id":514}

2.3   AMBA_TAKE_PHOTO

Message ID: msg_id: 0x00000301(769)

API Overview:

Description: This API is used to capture a still image.
Direction: From the APP to the camera.

Example:

Arguments:
{"msg_id" : 769,"token" : 1}

Successful return:
{"rval":0,"msg_id":769}

2.4   AMBA_RTSP_START

Message ID: msg_id: 0x00000016(22)

API Overview:

Description: This API is used to start the rtsp streaming.
Direction: From the APP to the camera.

Example:

Arguments:
{"msg_id" : 22,"token" : 1}

Successful return:
{"rval":0,"msg_id":22}

2.5   AMBA_RTSP_STOP

Message ID: msg_id: 0x00000017(23)

API Overview:

Description: This API is used to stop streaming.
Direction: From the APP to the camera.

Example:

Arguments:
{"msg_id" : 23,"token" : 1}

Successful return:
{"rval":0,"msg_id":23}

2.6   AMBA_NAS_START

Message ID: msg_id: 0x00000018(24)

API Overview:

Description: This API is used to start nas uploading.
Direction: From the APP to the camera.

Example:

Arguments:
{"msg_id" : 23,"token" : 1}

Successful return:
{"rval":0,"msg_id":23}

2.7   AMBA_NAS_STOP

Message ID: msg_id: 0x00000019(25)

API Overview:

Description: This API is used to stop nas uploading.

Direction: From the APP to the camera.

Example:

Arguments:
{"msg_id" : 24,"token" : 1}

Successful return:
{"rval":0,"msg_id":24}