

LipSync_Firmware_iOS - readme

Installation:

The firmware configures the bluetooth module to keyboard HID if the bluetooth module is not configured before (You are using a fresh new Arduino Micro).

Otherwise, you need to perform following actions if you are using a pre-configured bluetooth module or an Arduino Micro):

1. Set the bluetooth_can_config variable to true
2. Upload the [LipSync_Firmware_iOS] firmware to Arduino Micro
3. Set the bluetooth_can_config variable to false again
4. Upload the [LipSync_Firmware_iOS] firmware to Arduino Micro again

Usage

TvOS Mode

This mode activates when the jumper is **ON** the 2-pin header. You will be able to find a keyboard device named **LipSyncBT_tvOS** under Bluetooth settings of AppleTV.

Feature	Activation action
Enter Key	Puff 1 second
F4 Key (Go back)	Sip 1 second
F3 Key (Switch to a different app)	Puff 3 seconds
F8 Key (Play or pause)	Sip 3 seconds
Joystick drift reset	Puff 5 seconds
	Sip 5 seconds
Right Arrow Key	Right Joystick move
Up Arrow Key	Up Joystick move
Left Arrow Key	Left Joystick move
Down Arrow Key	Down Joystick move
Increase Directional Arrow Speed	Joystick Speed UP Button
Decrease Directional Arrow Speed	Joystick Speed Down Button
Joystick Calibration	Joystick Speed UP Button + Down Button

iOS Mode

This mode activates when the jumper is **OFF** the 2-pin header. The iOS mode has two operation mode which can be switched between using the very long Sip action (Sip 5 seconds). You will be able to find a keyboard device named LipSyncBT_iOS under Bluetooth settings of your iOS device.

Feature (Operation Mode 1)	Feature (Operation Mode 2)	Activation action
Enter Key	Enter Key	Puff 1 second
Space Key	Space Key	Sip 1 second
CMD or KEY_GUI_LEFT Key + Space Key (Opens the Search Bar)	Control key + F key (Opens the Find Bar)	Puff 3 seconds
CMD or KEY_GUI_LEFT Key + H Key (Goes back to Home screen)	CMD or KEY_GUI_LEFT Key + H Key (Goes back to Home screen)	Sip 3 seconds
Joystick drift reset	Joystick drift reset	Puff 5 seconds
Toggle between operation modes (1 and 2)	Toggle between operation modes (1 and 2)	Sip 5 seconds
Right Arrow Key	Alt/Option Key + Right Arrow Key [1]	Right Joystick move
Up Arrow Key	Shift Key + Right Arrow Key [2]	Up Joystick move
Left Arrow Key	Alt/Option Key + Left Arrow Key [3]	Left Joystick move
Down Arrow Key	Shift Key + Left Arrow key [4]	Down Joystick move
Increase Directional Arrow Speed	Increase Directional Arrow Speed	Joystick Speed UP Button
Decrease Directional Arrow Speed	Decrease Directional Arrow Speed	Joystick Speed Down Button
Joystick Calibration	Joystick Calibration	Joystick Speed UP Button + Down Button

1. Move keyboard cursor to the right direction in mode 2
2. Begin text selection on the right side of keyboard cursor in mode 2
3. Move keyboard cursor to the left direction in mode 2
4. Begin text selection on the left side of keyboard cursor in mode 2