# **LipSync Macro: User Guide**

#### Introduction

The LipSync Macro is a sip-and-puff joystick that emulates keystrokes from a keyboard. It allows users to interact with their electronic device without having to physically touch it through a series of recorded touchscreen interactions. This works on phones and tablets that have switch access (Switch Accessibility in iOS devices, Universal Switch in Android).

### **Device Compatibility**







iPad (iOS 7-13.1)

iPhone (iOS 7-13.1) Phone (Android 5.0+) Tablet (Android 5.0+)

Windows MacOS

## Powering the LipSync Macro

The LipSync Macro needs to be powered at all times with an external power source as there's no internal battery. There are several options:





**USB** power adapter

Computer USB port





Power bank (>5000 mAh)

USB-C/Lightning to **USB** adapter

# Connecting via USB

For computers and Android & Windows devices connect the LipSync Macro USB into the device. Use an adapter if necessary.

For iOS devices connect the LipSync Macro USB into a USB hub. Use a USB to USB C/Lightning (depending on the device used) to connect the USB hub to your device.

For more information, see LipSync Macro: Setup Guide.

### Connecting Wirelessly

- 1. Open Settings > Bluetooth > Turn it on.
- 2. Tap on LipSyncMacro to connect.
- 3. A Connected message will show beside the device name when it successfully connects.

#### Default Functions for PC

Action	Action Time (seconds)	Function
MOUTHPIECE RIGHT	N/A	† + + +
MOUTHPIECE LEFT	N/A	† <b>+ + +</b>
MOUTHPIECE UP	N/A	+ + +
MOUTHPIECE DOWN	N/A	† + <b>+</b> +
PUFF	1	[ ] DEL
SIP	1	C V B

<sup>\*</sup>No setup is required for the Macro to be used with computers.

## Custom Functions on the Phone/Tablet

After the LipSync Macro is setup with a phone or tablet, users can modify the programmed functions within the device. For visual instructions and advanced setups, please see LipSync Macro: Setup Guide.

- 1. Open Settings > (iOS) Accessibility or (Android) **Accessibility > Dexterity & Interactions**
- 2. Go to (iOS) Switch Control/ (Android) Universal Switch
- 3. Tap on Switches to bring up the list of functions already programmed.
- 4. Tap on a saved function you want to modify and select the new function you want to assign it.



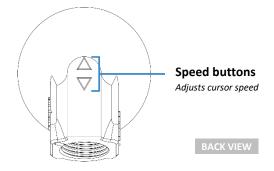
### **Speed Control**



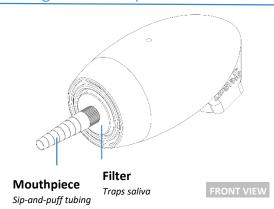
Press the ▲ button to increase the LipSync speed.

Press the ▼ button to decrease the LipSync speed.

The LED will blink the speed level number. The previous speed setting will be saved the next time it's used.



## Cleaning the Mouthpiece and Filter



Each user should have their own set of mouthpiece and filter for hygienic reasons. These pieces are made of acrylic plastic and have a 3–6-month life cycle depending on the usage.

Follow these steps to clean the pieces during its life cycle:

 With the LipSync facing you and wearing clean gloves, twist the mouthpiece and filter counter clockwise to remove them.





- 2. If the filter doesn't twist off or the filter stem is broken, use a hemostat or extra fine tip needle nose pliers to grip and carefully twist it off. See the *LipSync:* Startup Guide for in-depth instructions.
- 3. **To clean the mouthpiece**: mix 1 cup (250 mL) of water with 2 tsp (10 mL) of 5% bleach (sodium hypochlorite). Soak it for 10 minutes and let it air dry or wipe with clean cloth.
  - **To clean the filter:** throw away used filters that have trapped saliva and use a clean piece.
- 4. Wearing clean gloves, twist the mouthpiece and filter clockwise until finger tight. Do not overtighten.



#### Cleaning the LipSync Shell

- ✓ Wipe with a non-abrasive cloth lightly dampen with water or cleaning alcohol
- ✗ Don't use abrasive cleaning materials
- Don't soak the LipSync shell in any cleaning solutions

#### **Troubleshooting Cursor Issues**

If users encounter drifting or inconsistent cursor movement, follow these steps in order:

- Unplug the LipSync USB from the power source (e.g. power bank or device), wait a few moments before plugging it back, and let the LipSync initialize.
- 2. Perform joystick calibration. See the last page on the *LipSync Macro: Startup Guide* or watch the calibration tutorial on YouTube (https://tiny.cc/CalibrateLipSync).

If steps 1-2 doesn't resolve the cursor issue, contact your LipSync maker or go to Makers Making Change Forum (https://forum.MakersMakingChange.com) for assistance.