

LipSync

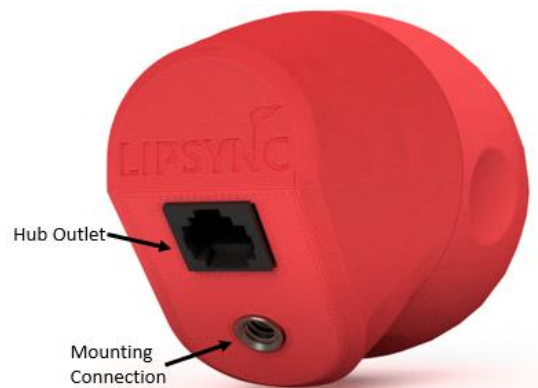
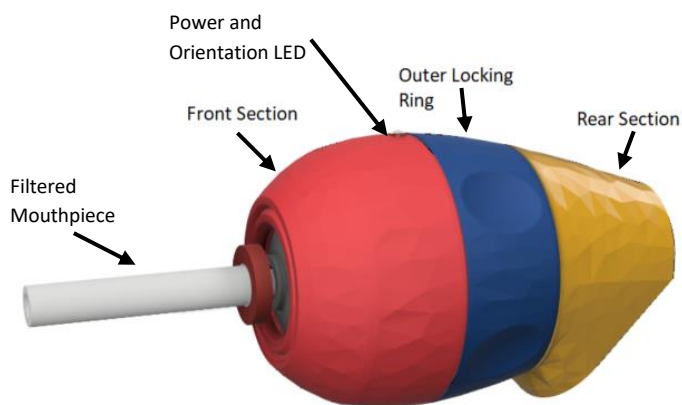
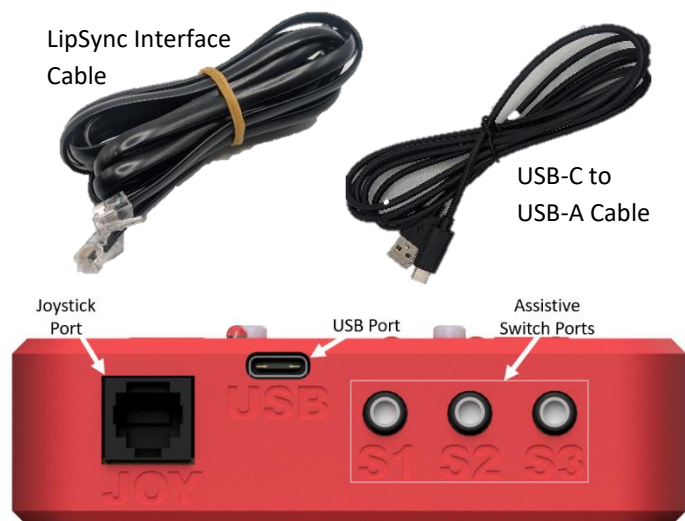
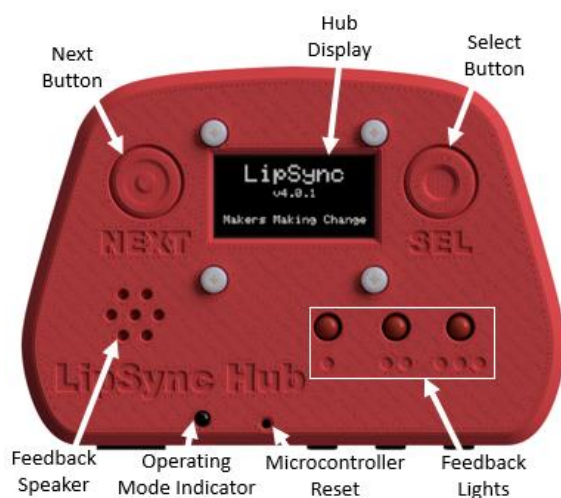
QUICKSTART GUIDE

Introduction

The LipSync is a mouth-operated sip-and-puff joystick that allows a user with limited or no arm mobility to control a computer, gaming console, smart phone, or tablet.

This Quickstart Guide is meant to briefly introduce the functions and use of the LipSync. For more detailed information, please consult the User Guide.

Features



LipSync

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Setting up the LipSync

The following are the general steps needed to setup your LipSync device:

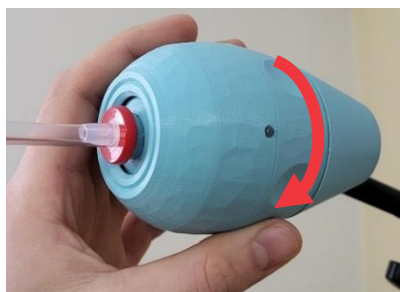
1. Mount LipSync Joystick
2. Mount LipSync Hub
3. Connect LipSync Interface Cable
4. Optional: Connect assistive switches to LipSync Hub
5. Connect the LipSync Hub to the Host Device
6. Once powered, wait until device initializes before moving joystick.

Cursor Setup on iOS Devices

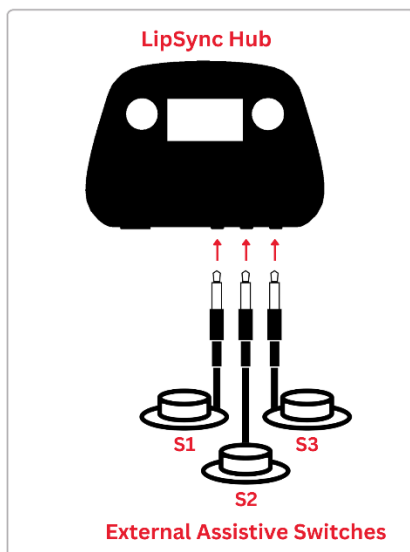
Open your device's **Settings** > **Accessibility** > **Touch** > **AssistiveTouch** > Turn it on.

LipSync Joystick Rotatable Mounting

Once mounted, the orientation of the LipSync Joystick can be adjusted by loosening the Outer Locking Ring, rotating the Front Section such that the LED points upward, and retightening the Outer Locking Ring.



Optional: Connecting Assistive Switches



Up to 3 assistive switches can be connected to the LipSync Hub to be used in place of Sip and Puff inputs.

The ports on the Hub for assistive switches are labeled S1, S2, and S3 and are standard 3.5 mm switch ports.

	Operating System	Compatibility per Mode		
		USB Mouse	Wireless Mouse	USB Gamepad ³
Phone/Tablet	Android	✓ ¹	✓	✓ ¹
	iOS ²	✓	✓	
	iPadOS	✓	✓	
	Windows	✓	✓	✓
Desktop	macOS	✓	✓	
	Linux	✓	✓	
	Windows	✓	✓	✓

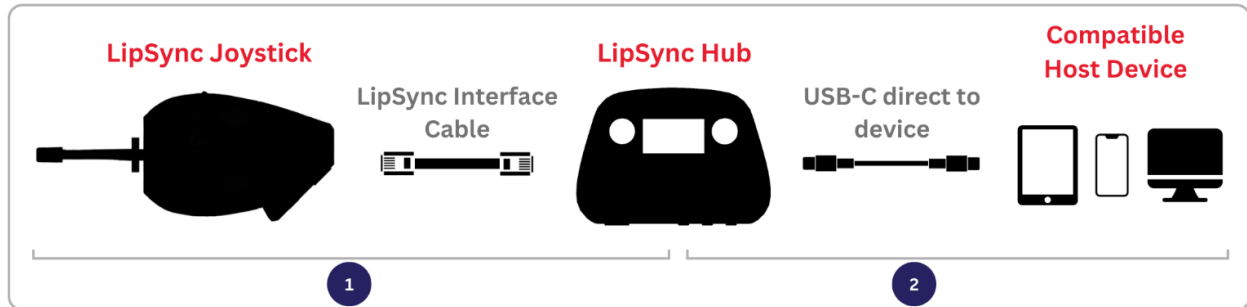
¹ Only with devices with USB OTG HID (Universal Serial Bus On-The-Go Human Interface Device)
² Only for iOS13+ and iPadOS.
³ The LipSync is also compatible with devices such as the Xbox Adaptive Controller in Gamepad mode.

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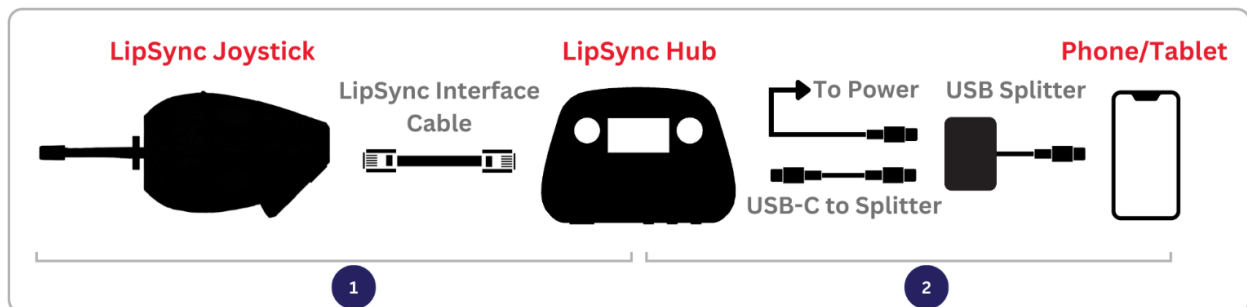
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USB Connections

For direct USB connection to the host device, connect the appropriate USB cable from the LipSync Hub into the host device. Use an adapter if necessary.

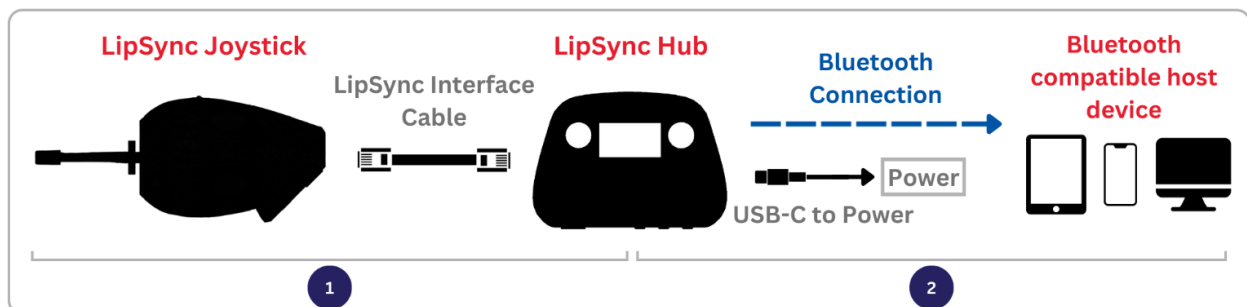


For connection to the host device with an external power source, plug a power splitting adapter into the host device and connect the LipSync Hub and external power source to the splitter. Use an Adapter if necessary.
Required for iOS USB connection.



Wireless Connections

For wireless connection to the host device, plug the LipSync Hub directly into any power source using the appropriate adapter as required. Change the operating mode to BT Mouse through the Hub Menu (See Input Mapping and Settings Menu Options). Find "LipSync" in the host device Bluetooth menu to pair and connect.



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Input Mapping

Interchangeable LipSync Inputs			Duration	Hub Menu	Mouse	Gamepad
Sip and Puff	Assistive Switches	Hub Buttons				
Puff	S1	Select	< 1 sec	Select	Left click	Button 1
			1-3 sec	-	Start Drag Mode	Button 3
			> 3 sec	Exit Hub Menu	Enter Hub Menu	Enter Hub Menu
-	S2	-	< 1 sec	-	Middle Click	Button 5
			1-3 sec	-	N/A	Button 6
			> 3 sec	-	Perform Center Reset	Perform Center Reset
Sip	S3	Next	< 1 sec	Next	Right click	Button 2
			1-3 sec	-	Start Scroll Mode	Button 4
			> 3 sec	-	Middle Click	Button 5
-	S1 + S3	Next + Select	< 1 sec	Exit Hub Menu	Enter Hub Menu	Enter Hub Menu
Joystick			-	-	Cursor movement	Joystick movement

Settings Menu Options

The Hub Display grants access to a menu for calibrating, changing operating modes, adjusting settings, and resetting the LipSync device. See Input Mapping for how to access and navigate the menu.

Menu Option	Submenu	Function	Notes
Exit Menu	Confirm exit menu	Exits settings menu	
Calibration	Center Reset	Performs center reset	Do if experiencing drift
	Full Calibration	Performs joystick calibration	Do if experiencing cursor issues
Mode	Operating mode options	Changes Operating Mode	Options are USB Mouse, BT Mouse, Gamepad
Cursor Speed	Increase/Decrease	Changes the cursor speed	Levels from 0 to 10, default 5 - Test speed on host device while in menu by moving joystick
More	Sound	Turns sound on or off	Default on
	Sip & Puff	Adjusts sip and puff thresholds	Levels from 1 to 100 hPa, default 3
	Restart Device	Restarts the LipSync	
	Factory Reset	Resets to default settings	

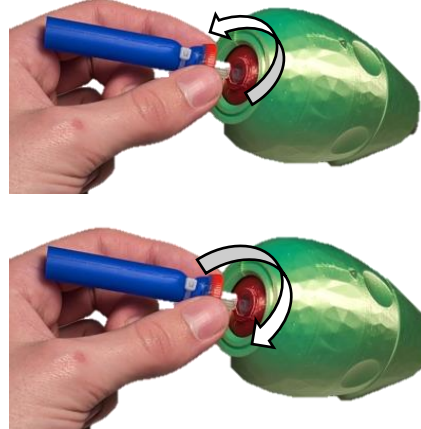
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Replacing the Mouthpiece

The mouthpiece should be replaced every 30-90 days with daily use, or if the filter becomes clogged.

1. **Remove the old mouthpiece and discard.**
Hold the mouthpiece by the filter (red piece) and twist counterclockwise until it comes out. Dispose of the used mouthpiece.
2. **Install a new mouthpiece assembly.**
Insert the new mouthpiece into the LipSync and twist clockwise to make a connection. Twist until finger tight.



Cleaning the LipSync

Cleaning the LipSync Joystick

- ✓ Wipe with a damp cloth
- ✗ Don't use abrasive cleaning materials
- ✗ Don't soak the LipSync Joystick in any cleaning solutions
- ✗ Don't immerse the LipSync Joystick

Cleaning the LipSync Hub

- ✓ Wipe plastic enclosure with a damp cloth
- ✗ Don't scrub or press down on the Hub Display
- ✗ Don't use abrasive cleaning materials
- ✗ Don't soak the LipSync Hub in any cleaning solutions
- ✗ Don't immerse the LipSync Hub

Troubleshooting Cursor Issues

If you are experiencing cursor drift (cursor is moving on device when joystick is not being moved), perform a center reset in one of the following ways:

Option A: Trigger Center Reset

Either by:

- Navigating through the Hub menu to:
Calibrate > Center Reset
- Using a very long press of assistive switch 2

Option B: Turn it off and then on again.

Do not touch the joystick until "Ready to use" is displayed on the Hub Display.

- Disconnect/Reconnect LipSync to power.
- Restart the device through the Hub Menu.
- Use a paperclip to push the reset pin on the Hub.

If the issue persists, contact the maker of your device or Makers Making Change at

info@makersmakingchange.com