

# Willow Joystick

## QUICKSTART GUIDE

### Introduction

The Willow is a magnetic low force joystick that allows a user with limited arm strength to control a computer, gaming console, smart phone, or tablet.

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

### Features



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### Setting up the Willow

The following are the general steps needed to setup your Willow Joystick:

1. Mount Willow Joystick
  - a. Mounting adaptors are available
2. Mount Willow Hub
  - a. Hub stand is available
3. Connect Willow Interface Cable
4. Optional: Connect assistive switches to Willow Hub
5. Connect the Willow Hub to the Host Device
6. Once powered, wait until device initializes before moving joystick.

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

<sup>1</sup> Only with devices with USB OTG HID (Universal Serial Bus On-The-Go Human Interfere Device)

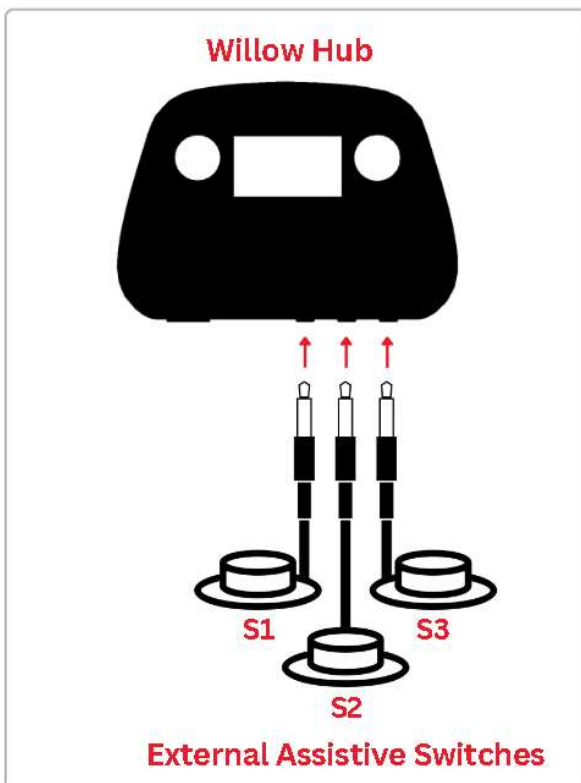
<sup>2</sup> Only for iOS13+ and iPadOS.

<sup>3</sup> The Willow is also compatible with devices such as the Xbox Adaptive Controller in Gamepad mode.

#### Cursor Setup on iOS Devices

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

#### Optional: Connecting Assistive Switches



Up to 3 assistive switches can be connected to the Willow Hub for user inputs.

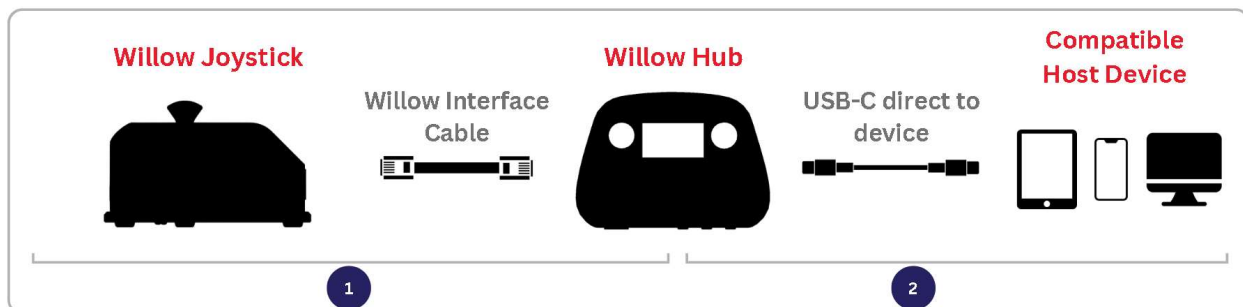
The ports on the Hub for assistive switches are labeled S1, S2, and S3 and are standard 3.5 mm switch ports.

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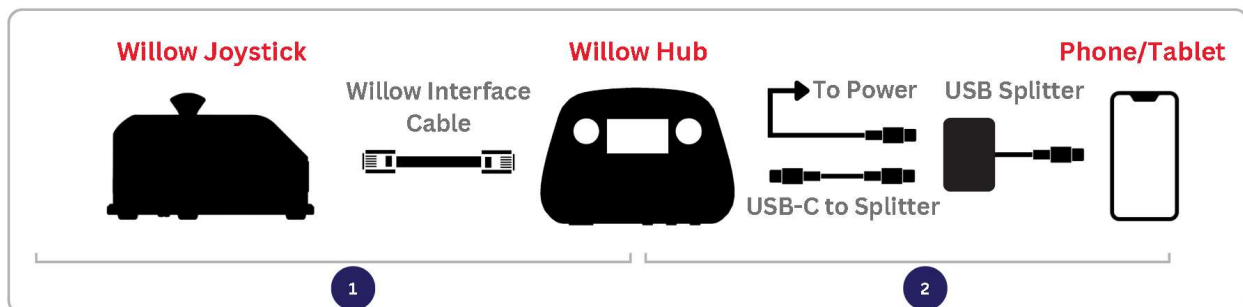
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### USB Connections

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

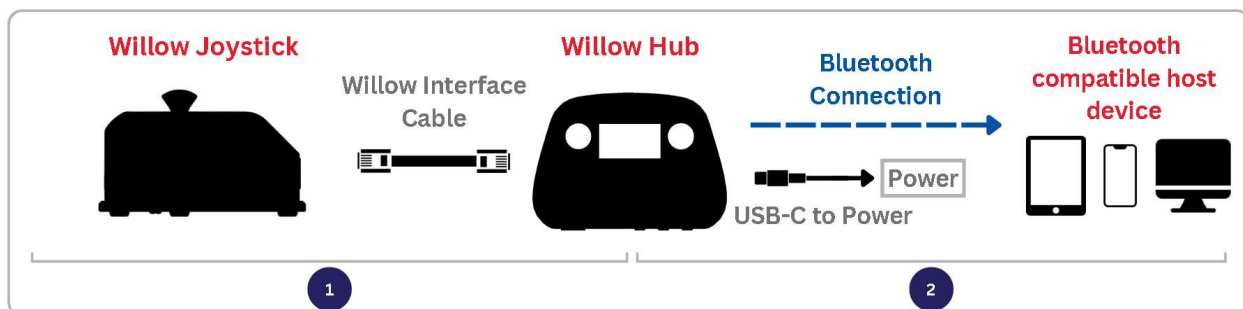


**For connection to the host device with an external power source,** plug a power splitting adapter into the host device and connect the Willow Hub and external power source to the splitter. Use an Adapter if necessary. **Required for iOS USB connection.**



### Wireless Connections

For wireless connection to the host device, plug the Willow 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 "Willow" in the host device Bluetooth menu to pair and connect.



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### Input Mapping

Interchangeable Willow Inputs		Duration	Hub Menu	Mouse	Gamepad
Assistive Switches	Hub Buttons				
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
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 Willow 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
	Restart Device	Restarts the Willow	
	Factory Reset	Resets to default settings	

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### Cleaning the Willow

#### Cleaning the Willow Joystick

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

#### Cleaning the Willow 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 Willow Hub in any cleaning solutions
- ✗ Don't immerse the Willow 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 Willow 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](mailto:info@makersmakingchange.com)