

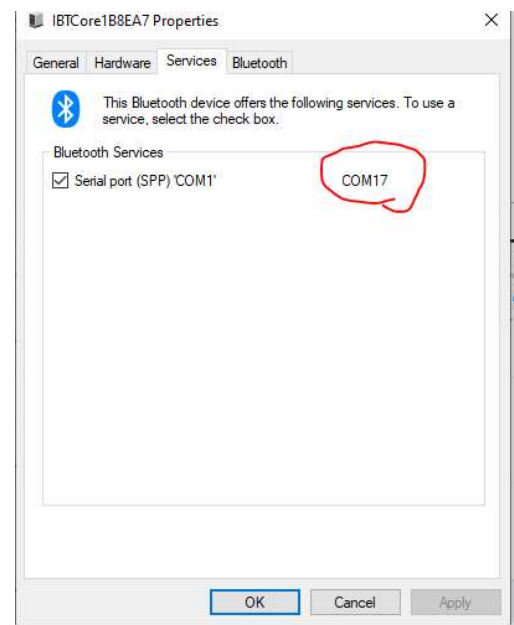
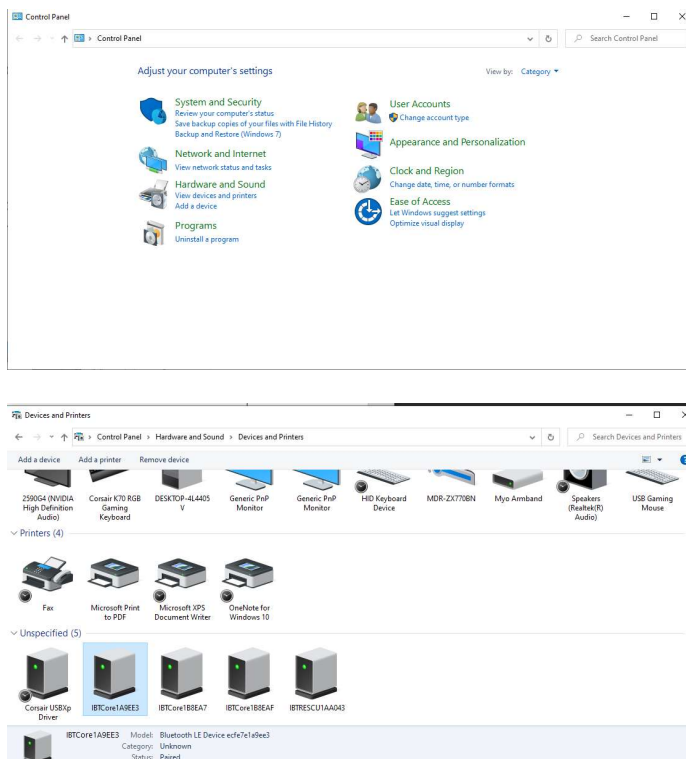
GUI: v39.0.1 (0eb5151)
Installer: v41.0.3(52c7abe)
Embedded: v24.2.58 (4c9c9b4)
Android: v37.0.8 (44ecc00)

Glide Setup Instructions

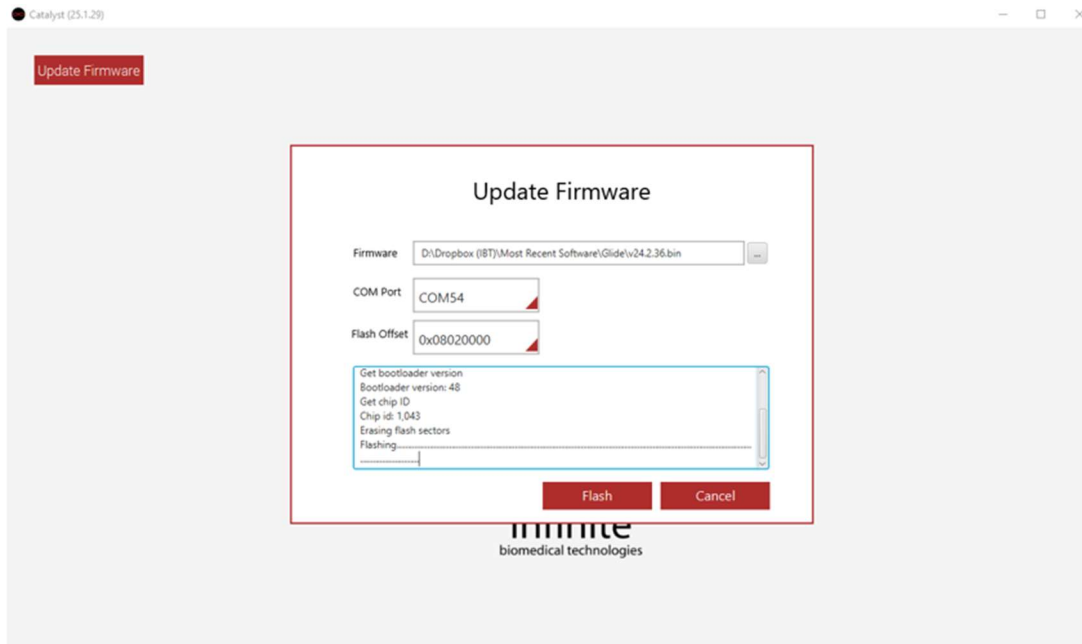
Pair and Update Firmware

The Glide controller will be shipped preconfigured. If you need to update the firmware, please follow this step.

First, pair the device by going to control panel, view devices and printers, and add a device. Then, find the comport of the controller by going to control panel, devices and printers, right click on the IBT device to connect to, properties as below. If you already have a glide map configured, it's a good idea to take a screenshot in case something goes wrong. You can refer to the screenshot to reconfigure when that happens. If you need to update the GUI as well, you can run the installer now for the new version of Glide software.



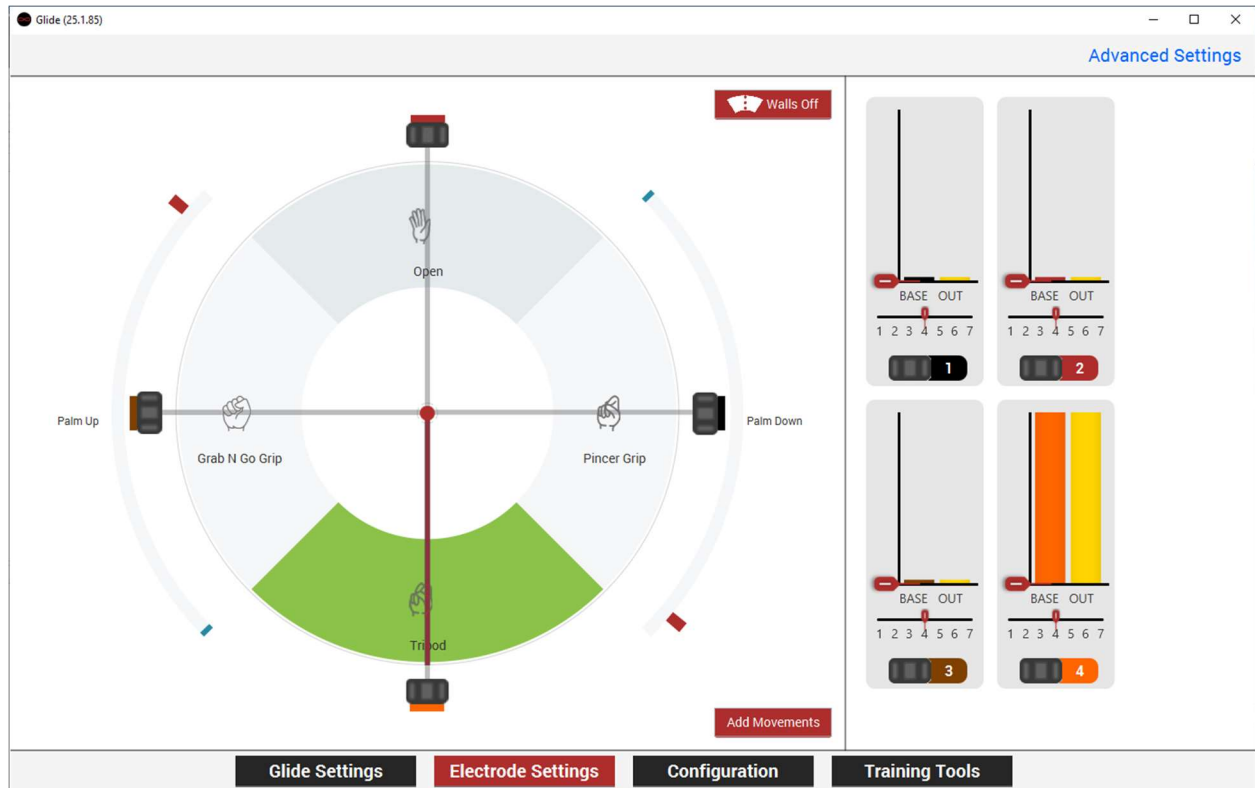
Second, launch the GUI and connect to the IBT device. On upper left corner of the config page, you will see “Update Firmware” button. Press the button and fill in the firmware path by pressing ... on the first line, select the correct comport we found above, then press Flash. Once controller finishes updating, it will say Press OK to restart the application. If the application does not close automatically, please manually close out of the GUI.



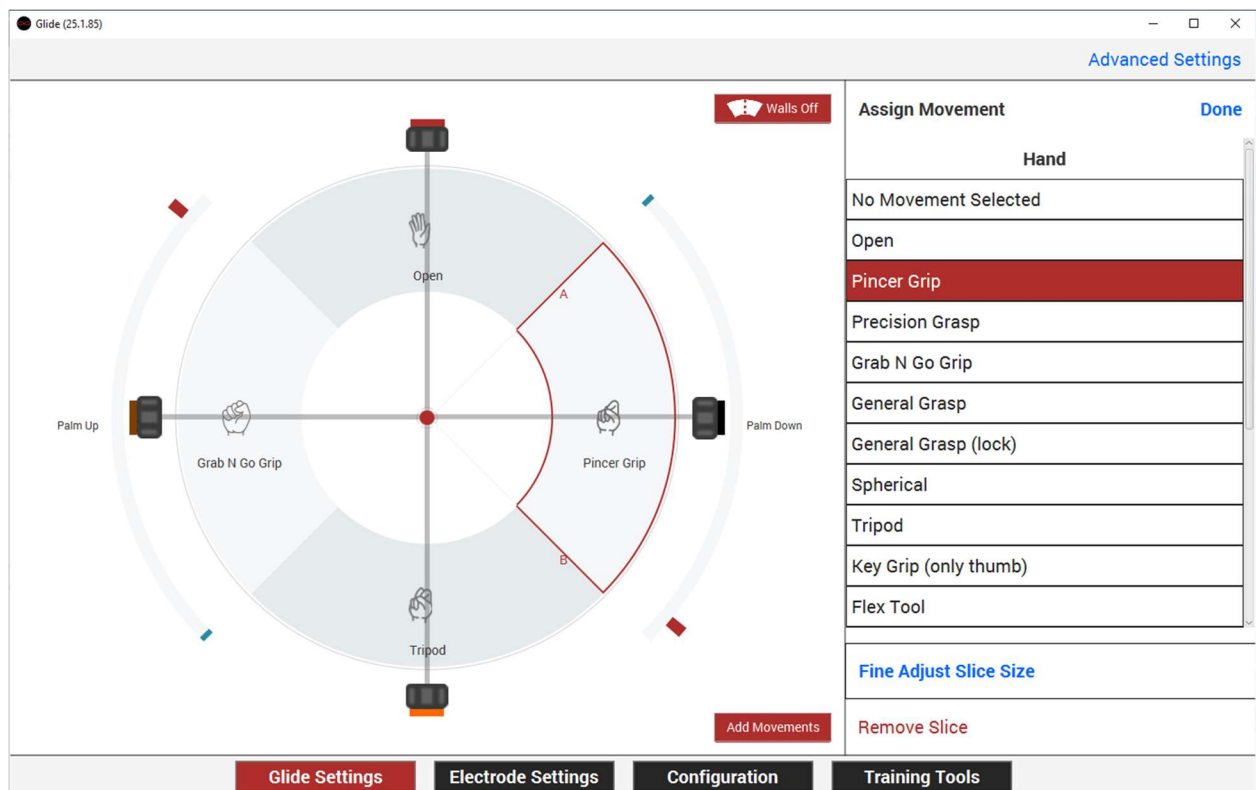
Updated GUI Overview

There should be an info icon (i) on many places to give a better idea of what each of them do.

On electrode settings page, you pay change the gain or threshold.



On Glide Settings, you can assign movements, fast rise movement, remove slices, allow fine control. You can assign movements by clicking on a slice (specifically, the grip or no movement icon inside the slice) and selecting the movement on the right panel. You can add movements by clicking Add Movements button and pressing the (+) button on desired location, which will take half the size each from adjacent slices. In order to remove a slice, you can select the desired slice and click Remove Slice button on the bottom of the right panel. It will add half the size to adjacent 2 slices. You can also choose to assign fast rise movement and fast rise movement threshold (amplitude user must reach within a given window to activate the fast rise; fast, strong pulse will activate FR and slow, gradual pulse will activate SR).



If you would like a finer control than mouse drag, you can select Fine Adjust Slice Size button on right panel after selecting the slice you would like to adjust.

Upper right corner of the GUI will have Advanced Settings button which allows you to modulate hold time, smoothness, and signal boost. You may also reset glide map when you want the map to have equally distributed slices with no movements assigned. Reset Glide Map should only be used when you want to start afresh, as all configuration will be deleted.

TASKA Configuration

In order to use TASKA as a 2-site system, ensure that the settings from TASKA GUI looks as below and EMG select mode is turned on by long pressing the middle button of the TASKA hand. If you want to use TASKA with multiple electrodes, you can keep all settings the same and remove the grips that show up under EMG Select and turn off EMG select mode by long hold pressing the middle button of the TASKA hand.

The screenshot displays the TASKA Hand App interface. At the top, there's a header with the TASKA logo, version v11.1.8, and navigation tabs: ASSIGN GRIPS, TRAINING, and SETTINGS. The SETTINGS tab is active. On the right side of the header, there are buttons for 'Load from hand', 'Save to hand', and 'Disconnect', along with a 'Synced' status and an 'Autosave' checkbox.

The main content area is titled 'My Current Configuration'. It features three tabs: 'IDLE RETURN', 'EMG SELECT', and 'BUTTON SELECT'. The 'EMG SELECT' tab is selected. Below these tabs, there are two columns of buttons representing different grips. The 'Grab 'n' Go' grip is highlighted with a red box. Other grips include 'General Grasp', 'Key Grip', 'Keyboard', 'Tripod', 'Pointer', 'Co-contract', and 'Long co-contract'.

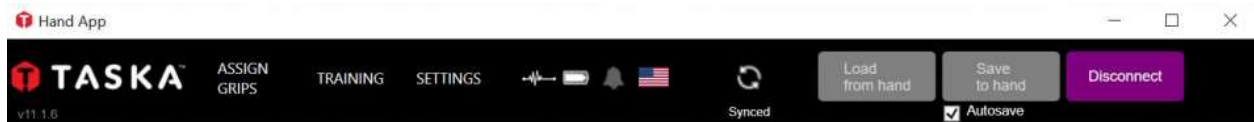
Below the configuration area, there's a section titled 'Drag and drop grips to assign them to buttons'. It shows a grid of various grips like 'Relaxed', 'Open Palm', 'Keyboard', 'Don/Dof', 'Pointer', 'Key Grip', 'General Grasp', 'Apple / Spherical', 'Tripod', 'Mug close-only', 'Pincer', 'Tablet / Hook', 'Handshake / Flexi-Tool', 'Precision Grasp', 'Grab 'n' Go', 'Mouse', '1 Finger Trigger', '2 Finger Trigger', 'OK', 'Opp_alg', 'Natural', 'TriNoSt', and 'RockOn'.

On the right side, there's a 'SENSOR GRAPH' section with a red dot for 'Open sensor' and a blue dot for 'Close sensor'. Below the graph is a 'Key Grip PREVIEW' section showing a hand with a key grip and a 'Try out this grip' button.



Training Activity

Hold	Long Hold	Double Pulse	Co-contraction	Long Co-contraction
<input checked="" type="radio"/> Open sensor <input type="radio"/> Close sensor	<input checked="" type="radio"/> Open sensor <input type="radio"/> Close sensor	<input checked="" type="radio"/> Open sensor <input type="radio"/> Close sensor	<input checked="" type="radio"/> Both Sensors	<input checked="" type="radio"/> Both Sensors
<button>Start</button>	<button>Start</button>	<button>Start</button>	<button>Start</button>	<button>Start</button>
Last Trained: Never High Score:	Last Trained: Never High Score:	Last Trained: Never High Score:	Last Trained: Never High Score:	Last Trained: Never High Score:



Advanced Sensor and Grips Settings

SENSOR SETUP	GRIP TRIGGER PARAMETERS
Number of Sensors ? 2	Open Hold Timer ? 1500 ms
Swap Sensors ? No	Open Long Hold Timer ? 1500ms + 1000 ms
Current A=Close Sensor, B=Open Sensor	CoContraction Timer ? 200 ms
Sensor A type ? EMG/Linear	Long CoContraction Timer ? 200ms + 750 ms
Sensor B type ? EMG/Linear	Open Double Pulse ? 1000 ms
	Trigger Mode ? Direct

SINGLE SENSOR SPECIFIC	SENSOR TUNING
1 Sensor Mode ? Alternate	Open Proportional/Digital Control ? Proportional
1 Sensor Regrip Timer ? 30 ms	Close Proportional/Digital Control ? Proportional
1 Sensor AutoClose ? 3 s	Max digit speed threshold ? 75% of sensor range

DUAL SENSOR MODE
First sensor Read ? Strongest

Global Grip Settings

MOUSE CONTROLS

Mouse click force
0
10
100

Mouse go to position
0
20
100

ANTI-SLIP TRIGGER PARAMETERS

Anti-Slip Enabled
Off

Anti-Slip Activation Method
Close Sensor

Anti-Slip Hold Time
1000
ms

SYSTEM CONTROLS

Battery Use
Power

Disable Battery Low Shutdown
Off

Enable Counters
Off

EMG Button - Enable/Disable
Grip Triggers

Idle Return Grip Activation Time
10
s

VERSION AND COUNTERS

FIRMWARE VERSIONS

Product ID
B1 FB 01
Serial Number
88 6B 0F A0 7F F6
Hardware Version
1.4
Main Firmware
11.21
Driver 1 Firmware
12.11
Driver 2 Firmware
12.11
Driver 3 Firmware
12.11
On Time (seconds)
496

Upgrade Hand

Select file from your computer
Select

Update hand now

SYSTEM COUNTERS

Power Cycles
4152
Reset power cycle

Device Configuration

Follow the sequence of screenshots below for device configuration, glide profile, and electrode settings. For the 2-site control strategy, please select “2” under the “Num Electrodes” setting in the Configuration Page. For the Glide control strategy, please select “3” under “Num Electrodes” setting in the same page. Next, adjust the Electrode and Glide settings as necessary. After settings have been modified, close out of Windows application and open the phone application to start logging.

Catalyst (25.1.28)

Update Firmware
Bootload Version 29.0.0
Core Version 24.2.41

User ID: catalyst

MAC Address: ECFE7E188530

Device Type: Glide *

Num Electrodes: 2 *

Amputation Side: Right *

Amputation Level: Trans-radial *

Elbow: No Elbow *

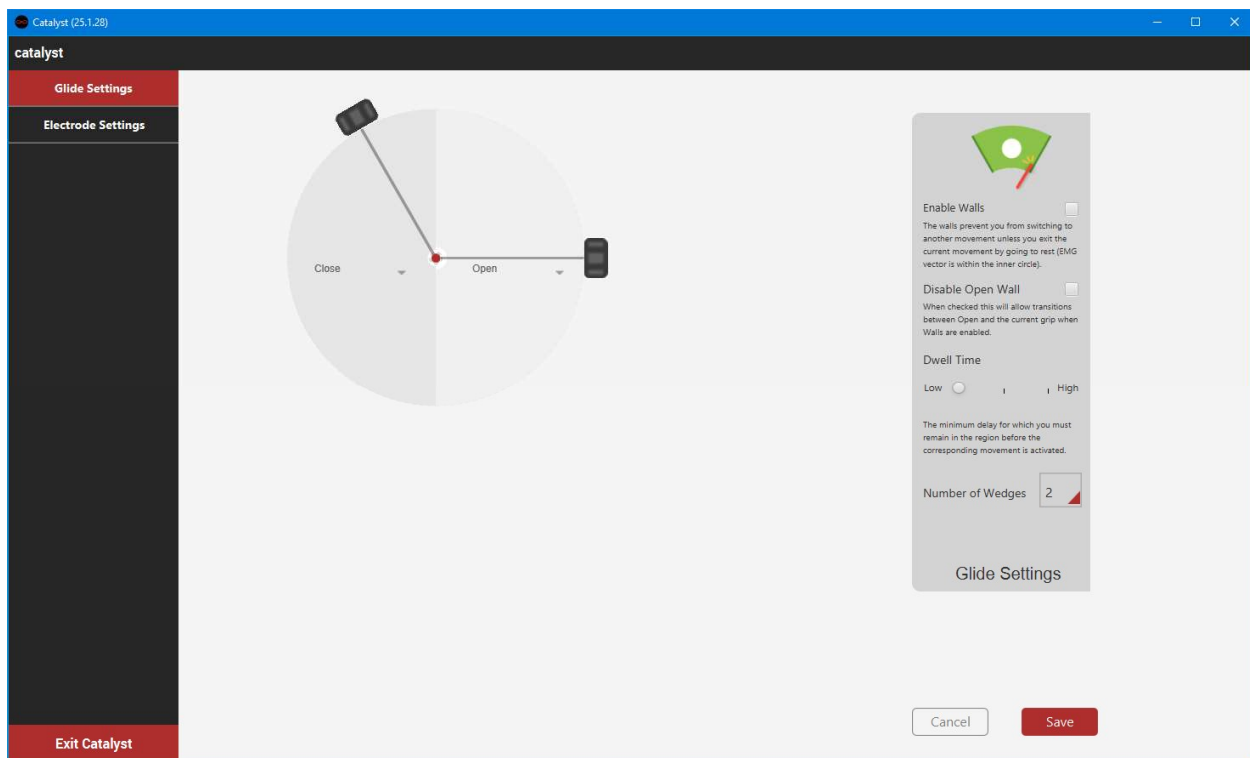
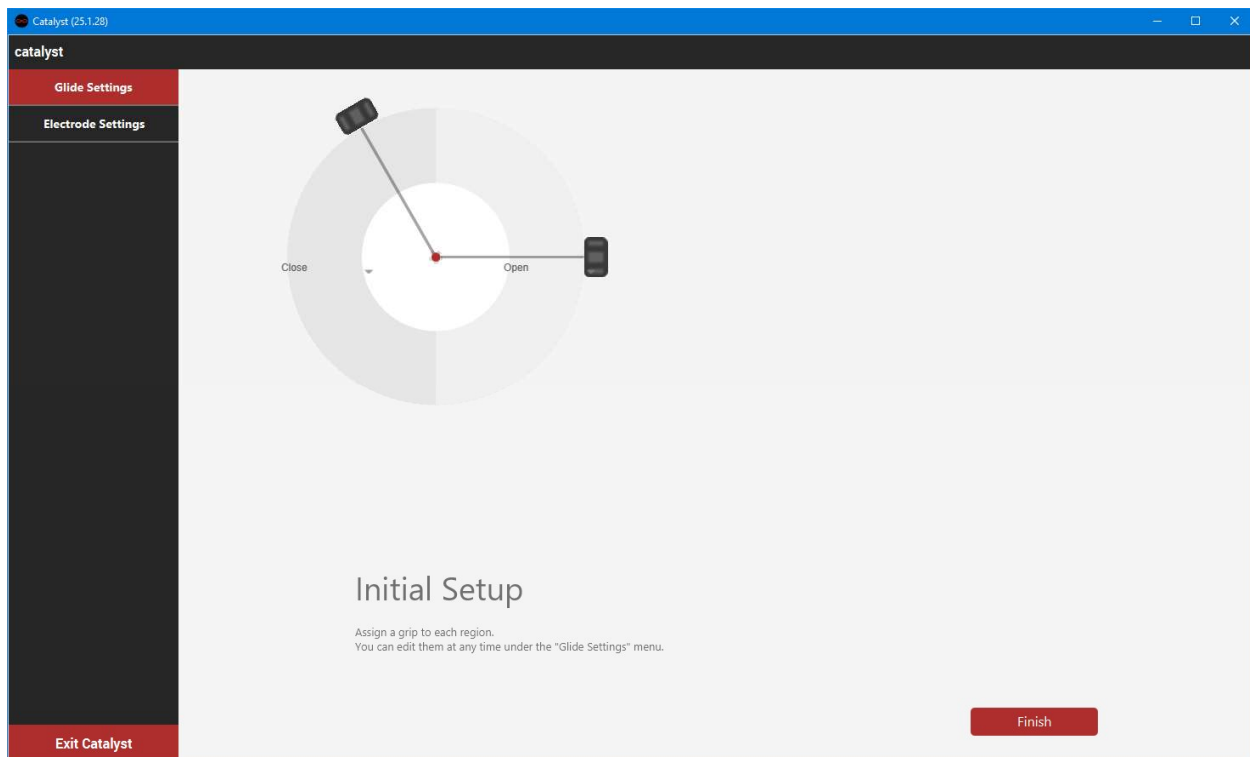
Wrist: No Wrist *

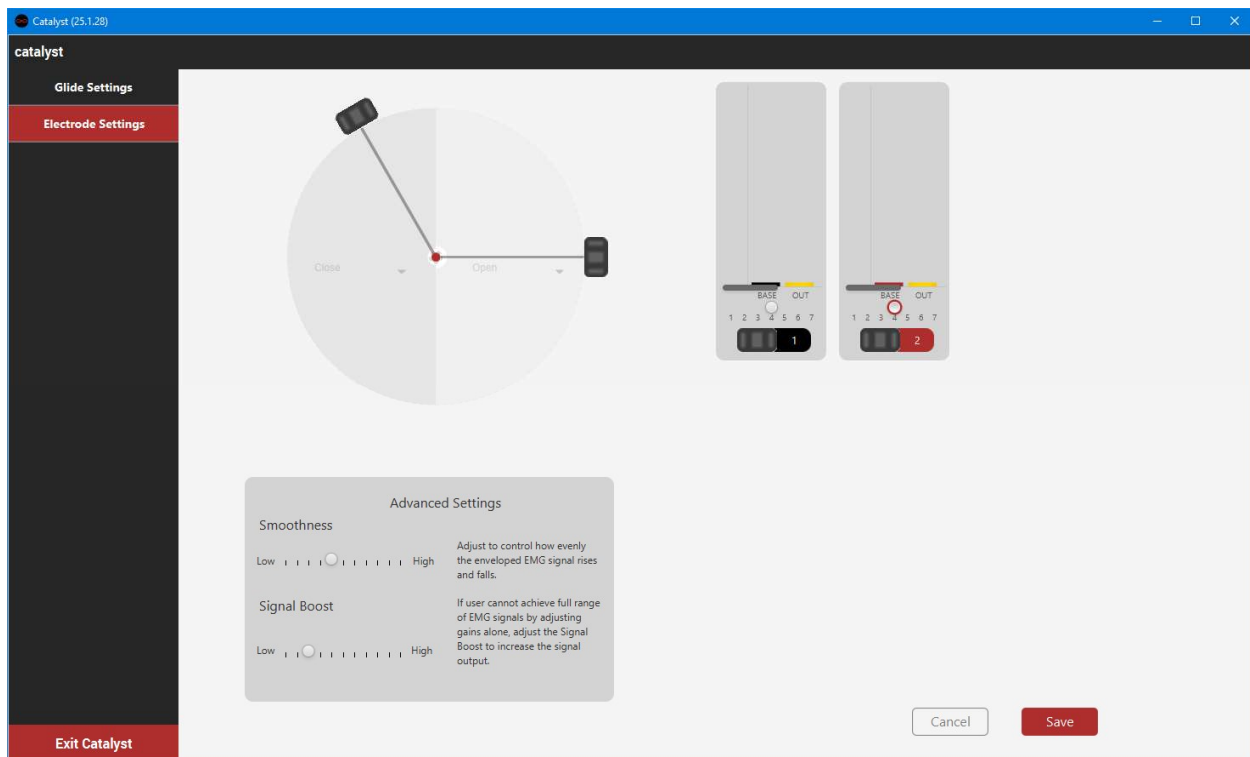
Hand: Taska (without grips) *

Region: 60 Hz *

Electrode Type: IBT Electrode *

Ok **Cancel**





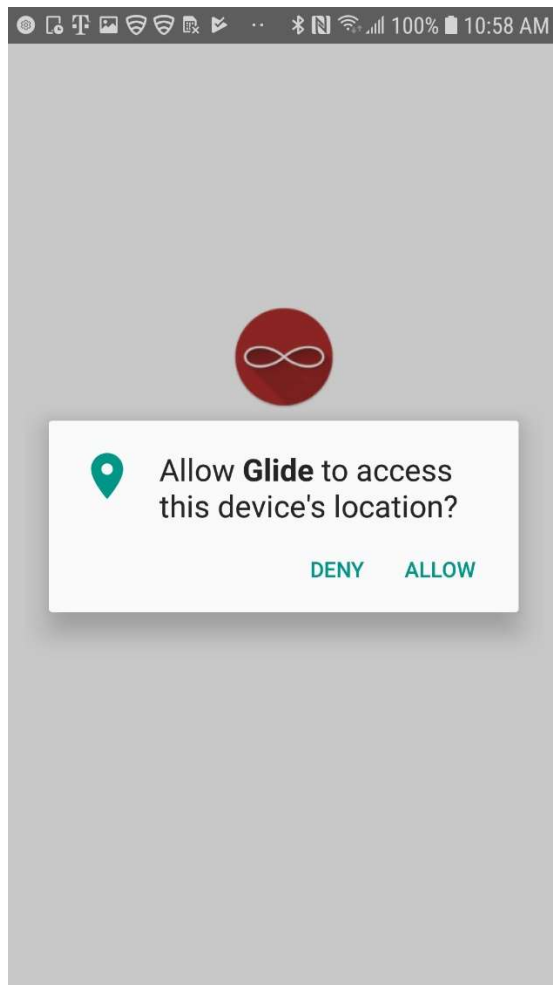
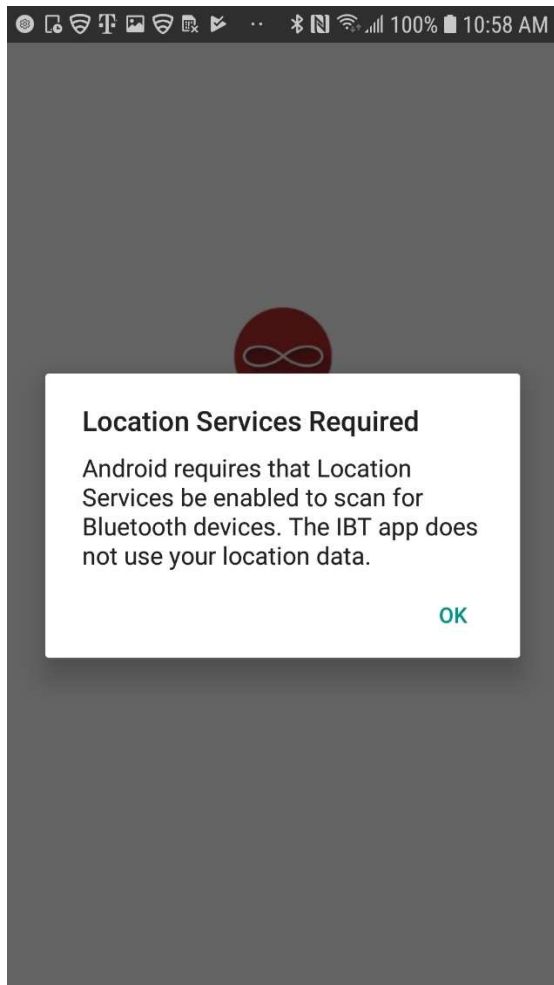
Daily instructions

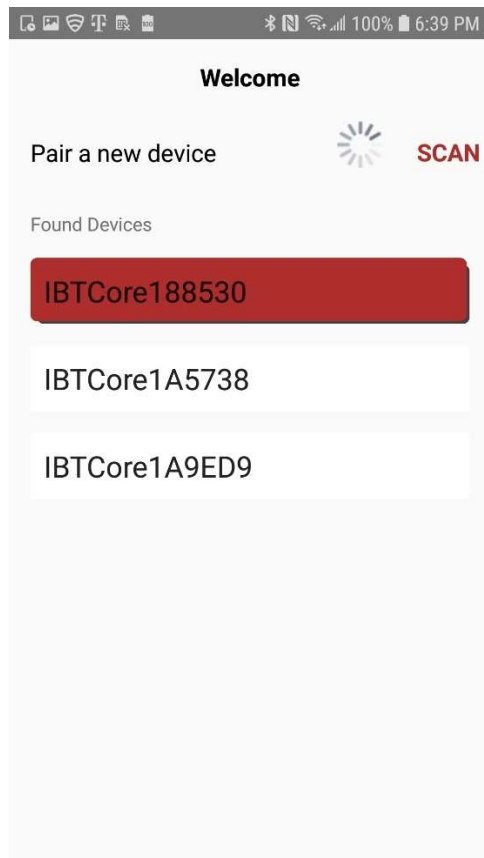
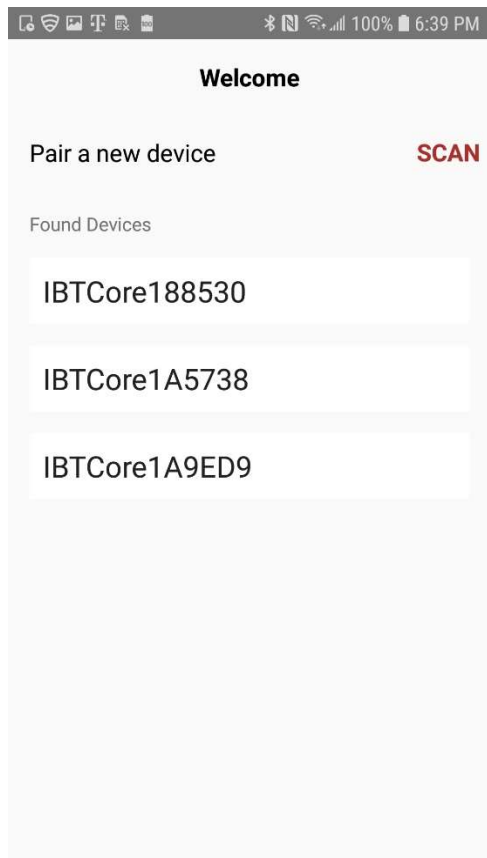
When using the Glide system at home, you must connect the phone to your study prostheses at all times. The IBT Data Logger phone application will record usage of your study prosthesis. **IMPORTANT:** The connection should be maintained to the phone at all times whenever your prosthesis is powered on.

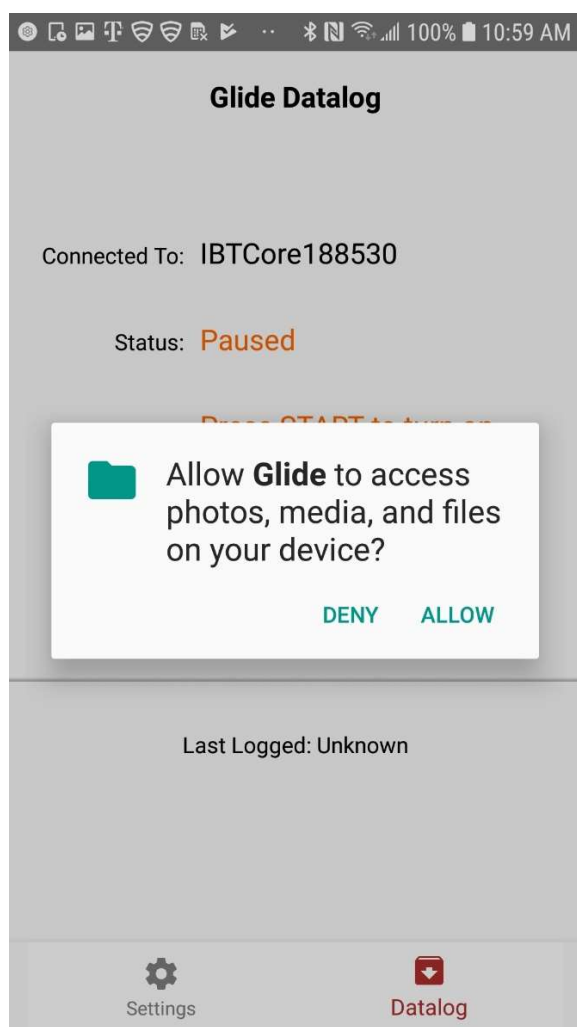
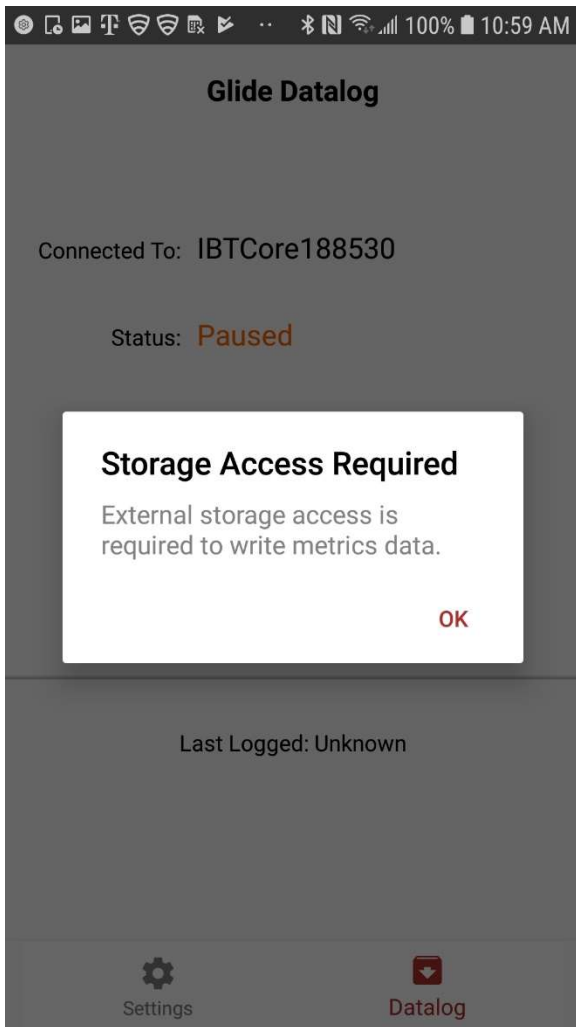
To connect to your study prosthesis from the phone app, please go through the following steps:

1. Once you power on your study prosthesis, open the IBT Data Logger phone application.
2. Press “**Scan**” and select the ID number for your prosthesis provided here: [IBTCore1A572E](#)
3. Press Allow when prompted to give access to device location and file for logging purpose.
4. During use, make sure the Status says “logging.”
5. When you power down your prosthesis, the app will automatically stop logging. **NOTE:** Immediately after turning off the prosthesis, the phone app will attempt to reconnect. You do not need to do anything.
6. Every time you power on the prosthesis to start using it, open the app to tap “**Start**.” The app will indicate “connect,” once the connection is successful.
7. Charge the phone and the prosthesis before sleeping, to ensure proper logging throughout the day.

IMPORTANT: The phone application can be as far as usual Bluetooth range (~10m) but should be kept on you as long as you’re wearing the prosthesis.







Glide Datalog

Connected To: IBTCore188530

Status: **Logging**

Keep this device within
range of prosthesis.

STOP

Last Logged: Nov 04 2019, 10:59:56



Settings



Datalog

Glide Datalog

Connected To: IBTCore188530

Status: **Paused**

Press START to turn on
data logging.

START

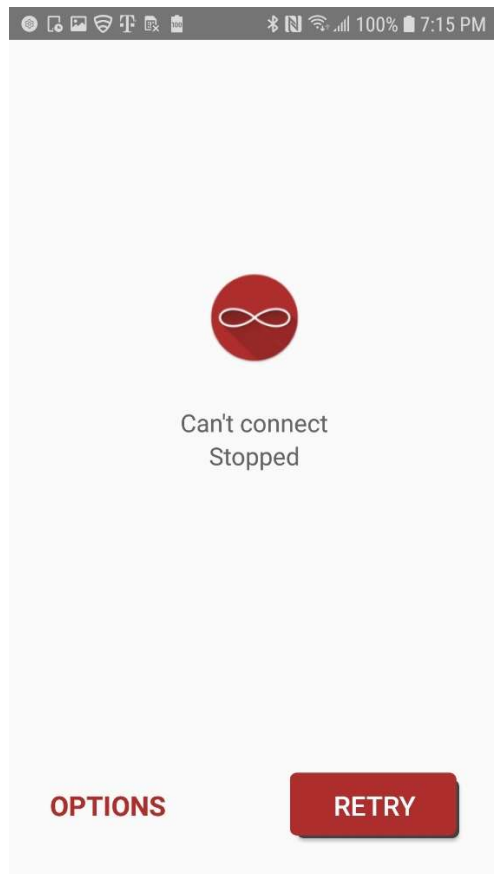
Last Logged: Nov 04 2019, 10:59:56



Settings



Datalog



You can access the usage data from phone by following this path, or you may connect to the PC.

