

FOR **BETA 2** USE ONLY

LED Orientation

Please note the orientation of the LED indicators below. Each can either be OFF, Green or Red.



Tools Installation

In order to update your beta device firmware, you must install a mobile app (Android or iOS) and a PC app.

Install the **nRF Toolbox** app by Nordic Semiconductor:

Android

Requires Android 4.3 or greater device from Google Play:

<https://play.google.com/store/apps/details?id=no.nordicsemi.android.nrftoolbox&hl=en>



iOS

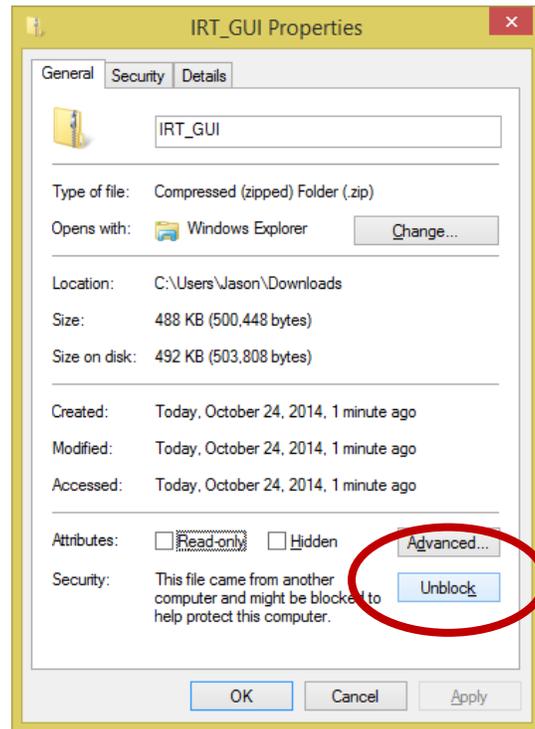
Requires iOS 8.0 or later from iTunes:

<https://itunes.apple.com/us/app/nrf-toolbox/id820906058?mt=8>



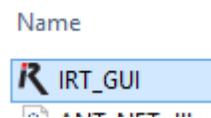
E-Motion Test Tool Installation

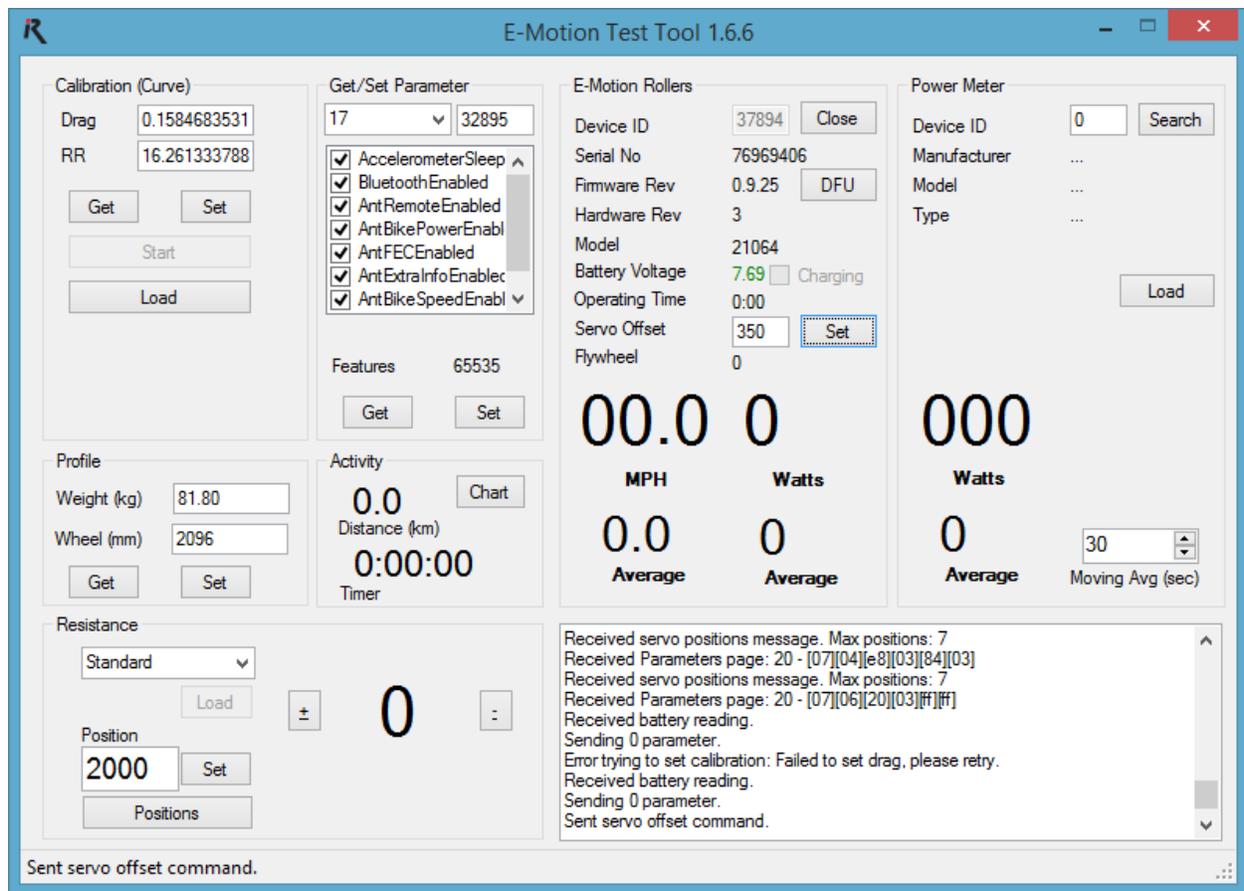
1. Download the zip file containing the [E-Motion Test Tool](#) app on a PC with Windows 7 SP1 or greater that has an ANT+ USB key & drivers installed.
2. You will need to **Unblock** the downloaded file before extracting it:



3. Extract IRT_GUI.zip to a location on your computer, i.e. **C:\IRT**

4. Launch the application by double clicking on **IRT_GUI**





PLEASE NOTE: More detailed instructions on use of the E-Motion Test Tool are available [here](#).

Firmware Update

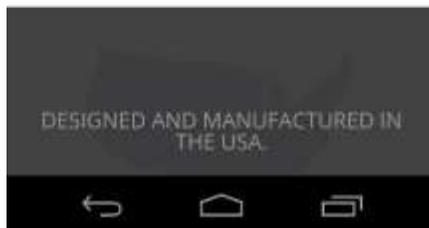
1. Download the **appropriate** latest firmware from <http://www.insideride.com/beta-downloads> and save to your device. NOTE that there are different firmware versions for beta 1 and beta 2 devices.

Android

The easiest way to get the file on Android is to navigate to the above URL from your device, click the link next to **Latest** and save to your device.



Firmware Update
Latest: 0.9.8 in testing now, await notice.
Older: 0.9.7



The file should appear in **Downloads** or **Google Drive** on your device depending on your settings.

iOS

You will need to download the file to your PC or Mac and use iTunes to load the file on your device.

Follow the instructions from the app screen:



- From your mobile device, launch the nRF Toolbox App and tap the icon **DFU** (Device Firmware Update).



- Tap **SELECT FILE TYPE** and select the **application** item.
- Tap **SELECT FILE**
- Locate the firmware file you downloaded



- Ensure your E-Motion Roller device is **ON**. The rollers will automatically sleep when there is no motion. If you

do not see any lights on or blinking, jiggle the rollers and the device should wake. If they still do not wake, push the button on the side.

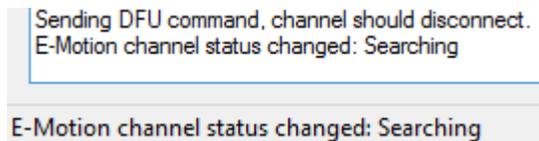
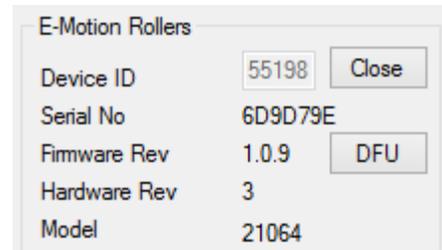
7. Launch the **E-Motion Test Tool** app, i.e. **C:\IRT\IRT_GUI.exe** if not already running.
8. If the app was already running, you may need to press **Search** to connect with your device again.
9. The tool should find your rollers and display the Device ID.
10. Press the **DFU** button. You should see this updated status to the right.

If not, press **DFU** again.
11. You will know the device is in DFU mode when the **REAR LED** turns solid red.

It will stay this way until timeout after several minutes if a connection is not established.

Repeat from step 7 if the DFU times out.

NOTE: The device will remain in this mode for approximately 2 minutes and then reset if a DFU connection is not made.



- From the **nRF Toolbox** app on your Android device, tap **Select Device** and tap **IRT DFU** under **Available Devices**.



- Press the **UPLOAD** button. If the button is not available or greyed out, ensure that you've selected a valid file and device.
- The upload has now started and you should see BOTH LEDs on the device turn solid red.
- Progress towards 100% should take only a few moments. If the process does not complete or it takes more than a few minutes to complete, restart from step 6.
- Once the firmware upload completes the device will reset into normal mode with the FRONT LED solid green and the REAR LED blinking green.

