

# Instruction: How to update the SmartBrake software (firmware) on SmartBrake?

## SmartBrake - Brake Unit

Why would you update the firmware?

- **To get the latest improvements** (bug fixes, better braking performance, improved battery life). SmartBrake does not update automatically.
- **To fix connection issues** (e.g., two controllers won't connect, disconnect frequently, or you can't reconnect).
- **To switch brake type** (disc ↔ rim). If you change between disc and rim brakes, you must install the correct firmware.

Supported phones: iPhone/Android with Bluetooth enabled.

If any of the above applies, you probably need to update (re-upload) the firmware. Follow the steps below. If you still have issues after completing the update, contact support: [post@smartgroup.no](mailto:post@smartgroup.no)

### Step 1 — Install the DFU app

Download the iOS/Android app **nRF Device Firmware Update (DFU)**.

This app transfers the firmware file from your phone to SmartBrake.



## Step 2 — Get the correct firmware file

For now, you need to request the correct firmware from us (soon you will be able to download it via a link).

→ Email us at [post@smartgroup.no](mailto:post@smartgroup.no).

Download the firmware **on your phone** (recommended).

For example, if you receive the file by email, download it directly on your phone instead of using a computer.

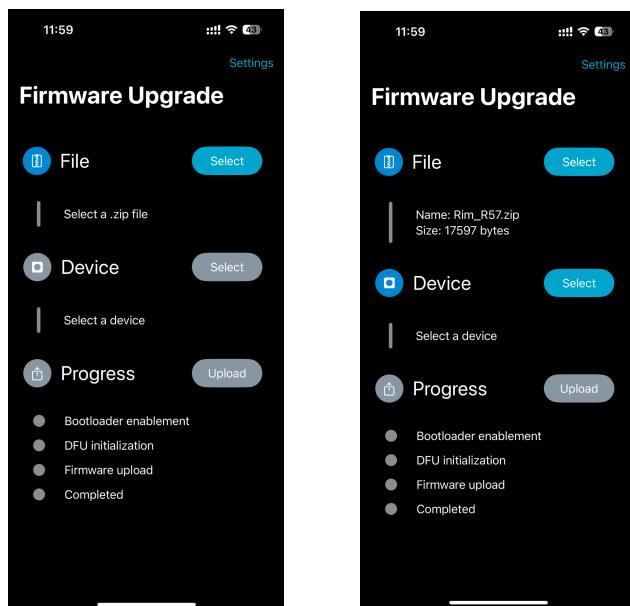
This allows the DFU app to access the file.

## Step 3 — Open the app and select the firmware file

Open the DFU app.

In the **File** section, tap **Select** and choose the firmware file from your phone.

Once selected, the file name should appear in the **File** section.



## Step 4 — Put SmartBrake into update mode (DFU mode)

To connect your phone to SmartBrake, SmartBrake must be in **DFU mode**:

1. Plug in SmartBrake (power on).
2. Press and hold the button for **7 seconds** until a **red light** appears.
3. When the red light stays on continuously, release the button.  
(See pictures below.)

1/



2/

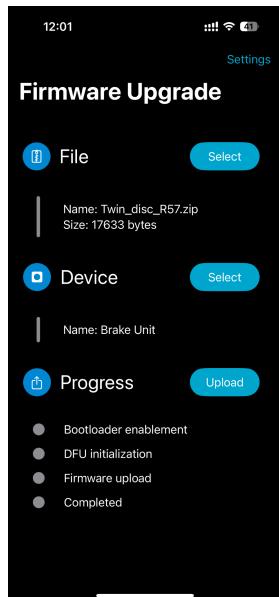


## Step 5 — Connect the DFU app to SmartBrake

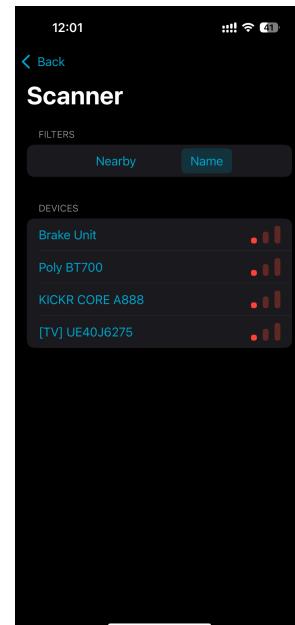
In the DFU app, go to the **Device** section and tap **Select**.

Choose **SmartBrake / Brake Unit** from the list of devices detected by your phone.  
(See pictures below.)

1/



2/



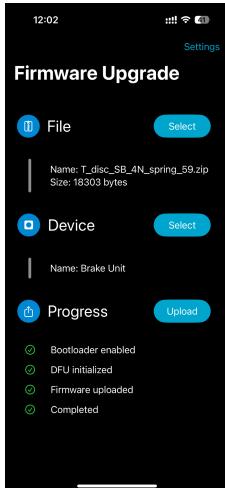
## Step 6 — Upload the firmware

Tap **Upload** and wait until the process is complete.

When finished, you should see **four green check marks** in the checklist (see picture).

Additionally, the red light on SmartBrake should disappear.

**Important:** Do not close the app, turn off Bluetooth, or unplug SmartBrake during the upload.



### Troubleshooting

→ If SmartBrake does not appear in the device list: make sure DFU mode is open, bluetooth active and SmartBrake is in a connecting mode (red light + charger plugged in). Keep the phone close, toggle Bluetooth, try again.

→ If upload fails: retry once; if it fails again, contact support.

# SmartBrake - Hand Controller

## Why would you update the firmware?

- **To get the latest improvements** (bug fixes, better braking performance, improved battery life). SmartBrake does not update automatically.
- **To fix connection issues** (e.g., two controllers won't connect, disconnect frequently, or you can't reconnect).

Supported phones: iPhone/Android with Bluetooth enabled.

If any of the above applies, you probably need to update (re-upload) the firmware. Follow the steps below. If you still have issues after completing the update, contact support: [post@smartgroup.no](mailto:post@smartgroup.no)

### Step 1 — Install the DFU app

Download the iOS/Android app **nRF Device Firmware Update (DFU)**.

This app transfers the firmware file from your phone to SmartBrake.



### Step 2 — Get the correct firmware file

For now, you need to request the correct firmware from us (soon you will be able to download it via a link).

→ Email us at [post@smartgroup.no](mailto:post@smartgroup.no).

Download the firmware **on your phone** (recommended).

For example, if you receive the file by email, download it directly on your phone instead of using a computer.

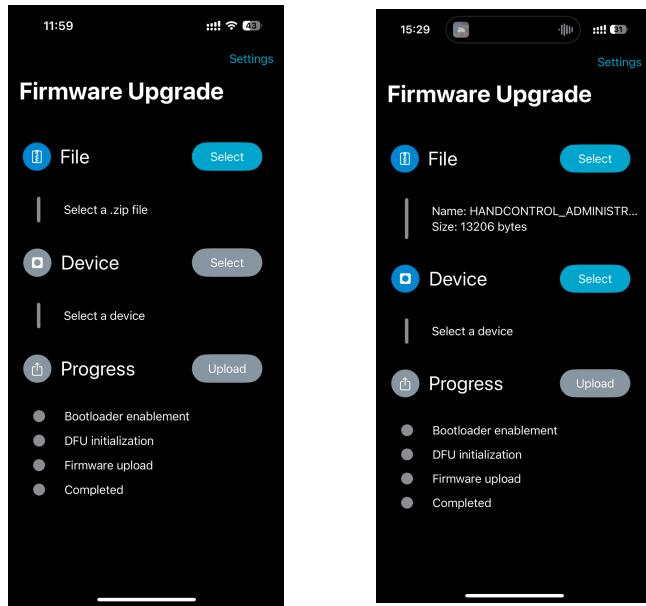
This allows the DFU app to access the file.

### Step 3 — Open the app and select the firmware file

Open the DFU app.

In the **File** section, tap **Select** and choose the firmware file from your phone.

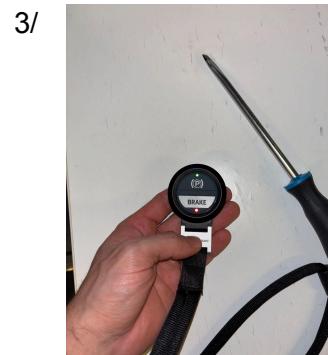
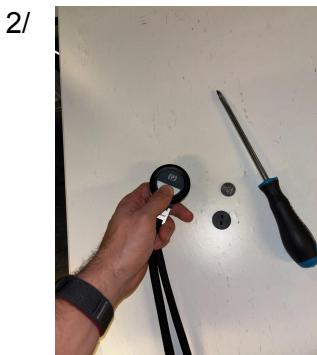
Once selected, the file name should appear in the **File** section.



## Step 4 — Put the Hand Controller into update mode (DFU mode)

To connect your phone to the Hand controller, the Hand Controller must be in **DFU mode**:

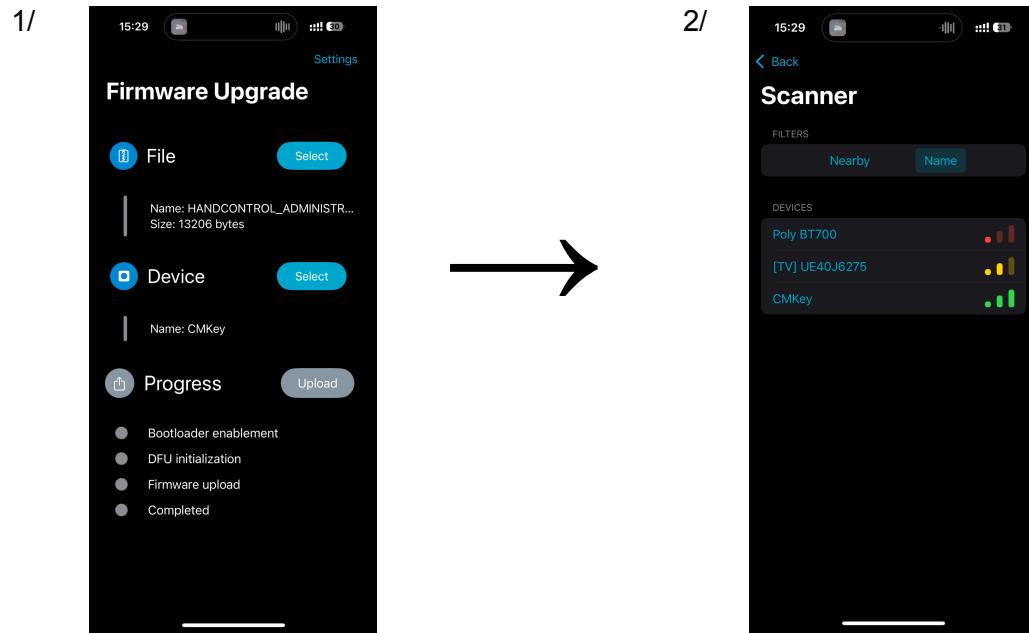
1. Plug out the battery and press the buttons multiple times
2. Plug in the battery again without pressing any buttons
3. Press both buttons ("Brake" and "(P)") at the same time until a green and a red light are activated at the same time.  
(See pictures below.)



## Step 5 — Connect the DFU app to SmartBrake

In the DFU app, go to the **Device** section and tap **Select**.

Choose **Hand Controller** from the list of devices detected by your phone.  
(See pictures below.)

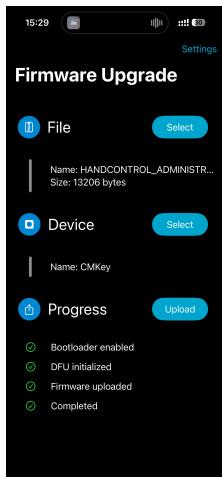


## Step 6 — Upload the firmware

Tap **Upload** and wait until the process is complete.

When finished, you should see **four green check marks** in the checklist (see picture). Additionally, the red light and green light on the Hand Controller should disappear.

**Important:** Do not close the app, turn off Bluetooth, or unplug SmartBrake during the upload.



## **Troubleshooting**

- If the Hand Controller does not appear in the device list: make sure DFU mode is open, bluetooth active and the Hand controller is in a connecting mode (red light + green light). Keep the phone close, toggle Bluetooth, try again. You can also redo the STEP 4 by making sure you are not pressing any buttons when putting in the battery again.
- If upload fails: retry once; if it fails again, contact support.