# **1. Installing VNM Flash**

## **1.1. Download Update tools from**

<https://vnmsimulation.com/download>

click download ZIP

A screenshot of a computer

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## **1.2. Install software and driver**

Open downloaded ZIP file -> open VNMFLASH-Setup.rar -> click Setup.exe and do as following:

Graphical user interface, text, application, email

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Click install -> next until it finishes

Graphical user interface, application

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### **1.3. Enable DFU Mode for VNM products**

There are a few ways to enable DFU mode for VNM products.

+ If it is a button (on the back of shifter, on the side of a handbrake): Push it and leave in **high position**, then remove and reconnect usb cable.

+ If it is a switch (on the back of shifter, on the side of a handbrake, on the pedal box, ffb controller box): Toggle switch to DFU, then remove and reconnect usb cable.

+ if it is momentary button, hold it then power off and power on again.

When you open VNM Config UI, it will show “Detect device(s) in DFU mode”.

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# **2. Firmware Upgrade**

## **2.1. Run VNM Flash as administrator**

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VNM Flash will show STM32 Bootloader as below.

Graphical user interface

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In case it doesn’t show “STM32 Bootloader in Device info section”, choose USB\**VID\_0483**…(remaining depends on device), click update and wait it show finish and replug your device.

Graphical user interface

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## **2.2. Download firmware**

Download a firmware corresponding to your device by click on the cart icon

Graphical user interface, application

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Here I use the VNM Shifter, so I choose firmware shifter and latest version is 2.0.0.7, click download icon.

Graphical user interface

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After downloading, click select

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Click “Flash” button and wait it finishes.

Graphical user interface, text

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## **2.3. Get out of DFU mode**

There are a few ways to enable DFU mode for VNM products.

+ If it is a button (on the back of shifter, on the side of a handbrake): Push it and leave in **Low position**, then remove and reconnect usb cable.

+ If it is a switch (on the back of shifter, on the side of a handbrake, on the pedal box, ffb controller box): Toggle switch to DFU, then remove and reconnect usb cable.

+ if it is momentary button, hold it then power off and power on again.

When you open VNM Config UI, it will show “Arrival of” the device that you have uploaded the firmware. Calibrate the device

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Now finish 😊!