Installation

Overview

Installation of the **Deviation** firmware is done using the Walkera 'DfuSe USB Upgrade' tool, following the same process for upgrading the Walkera firmware.

Installation of the **Deviation** firmware replaces the Walkera firmware, but does NOT affect / overwrite any Walkera models previously stored on the Transmitter**. **Deviation** cannot access the existing models (different file type / format), but they will be safely preserved, should the Walkera firmware ever need to be reinstalled again.

** Note: Existing models on the Devo12 WILL be lost when switching to **Deviation**. They should be **uploaded** to your computer, using the 'DfuSe USB Upgrade' tool, prior to installing the **Deviation** firmware.

The **Deviation** package consists of three separate downloads…

deviation-devoXX-vn.n.n.zip   (**Deviation** firmware)
deviation-emu_devoXX-vn.n.n.zip   (**Deviation** emulator application)
deviation-fs-devoXX-vn.n.n.zip   (**Deviation** file system)

- The firmware is the file that will be installed on the transmitter.
- The emulator is a Windows application, that allows running the Deviation software on a PC, in order to review and test changes made to it.
- The file system contains all the files and folders used to configure the transmitter and models, as well as the graphics for the screen interface (buttons, toggles, trims, channels, data fields, menus, background, splash screen, etc.)

Instructions

1. Download the 'Devention DfuSe USB Upgrade Tool' from Walkera.
   http://www.walkera.com/en/upload/upgrade/DevoDfuSe V2.0.zip

   (The Latest version, as of the writing of this manual, is…)
      Devention Dfuse USB Upgrade Tools V2.0
      Software version: V2.0
      Released date: 2013-10-14

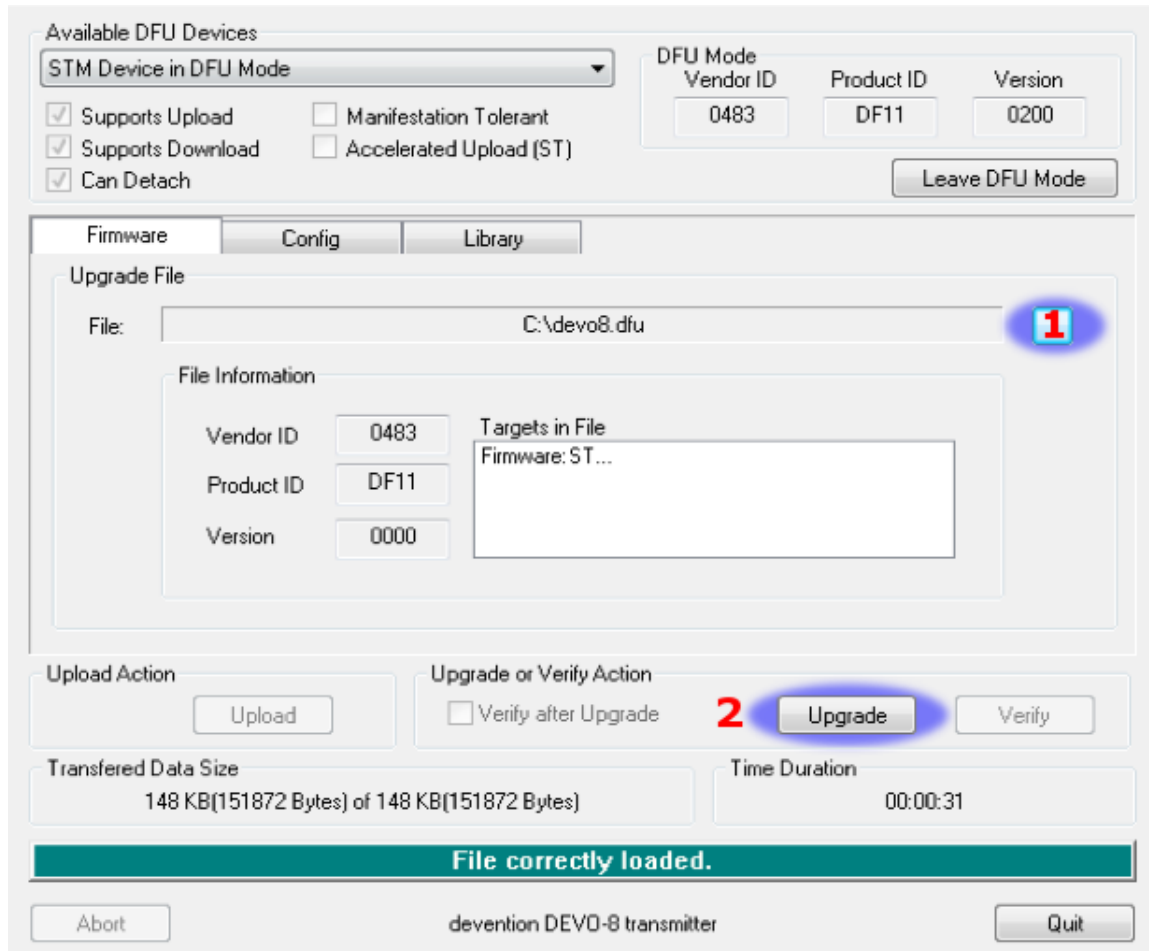   **NOTE: Do NOT attempt to use the DfuSe tool from STMicroelectronics!**
   Only install the **Deviation** firmware using the **Walkera** version of the 'DfuSe USB Upgrade' tool**!**

2. Download the **Deviation** files for your particular model of Devention radio from the **Deviation** web site's **Downloads** page.
   http://www.deviationtx.com/repository/Deviation-Releases/
3. Install and launch the **DfuSe USB Upgrade** tool.

   It is recommended to verify that this tool works correctly, by first upgrading to a different version of the Walkera firmware.
   (Several users in the past have experienced issues with some versions of the DfuSe tool.)
4. Connect the transmitter to the computer via a USB cable.
5. Press and hold the '**EXT'** button down, and then turn on the transmitter, to enter **programming mode**.
   (On the Devo12, press and hold the **trainer-switch** instead.)
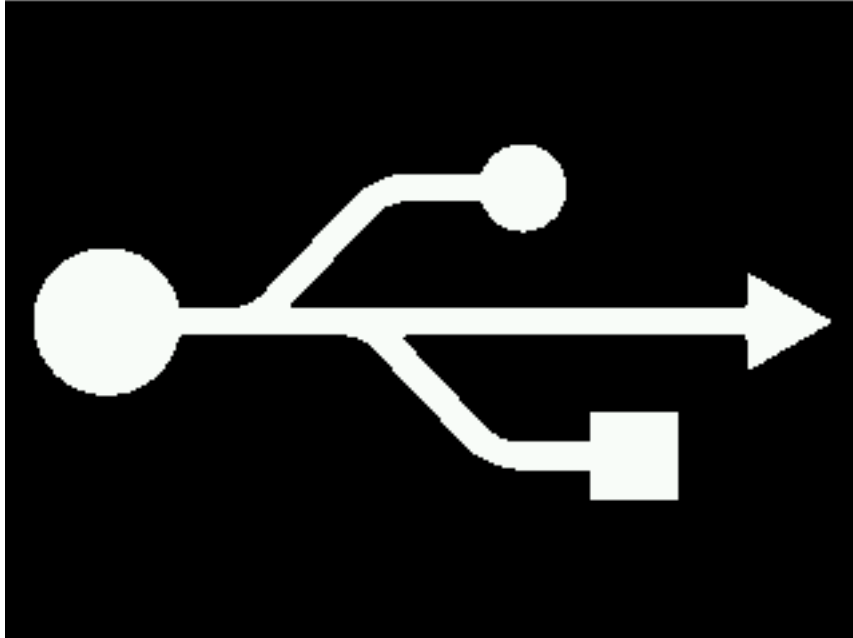   The **DfuSe USB Upgrade** tool should automatically detect and connect to the transmitter.

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6. Press the '...' button (1), and browse for the **deviation-devoXX-x.y.z.dfu** file to install. Select '**Upgrade'** to install the firmware.

(This will be grayed-out if your transmitter is not detected.

Do NOT use 'Upload' as this will destroy the dfu file on your PC. **(There have been reports of it corrupting the model settings on the transmitter as well.)**
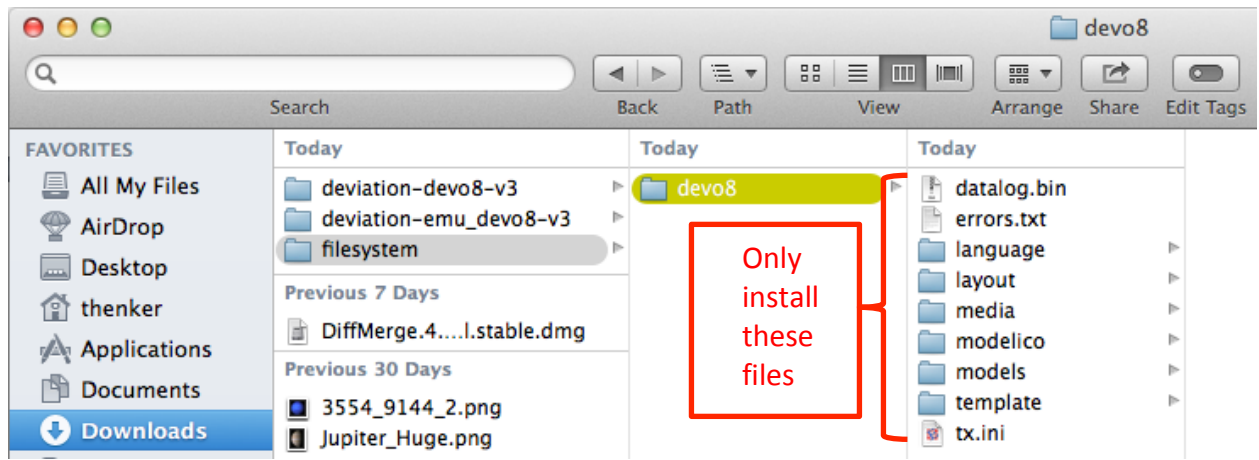
(Devo12 Only: Select the 'Library' tab, click '...', select the **devo12-lib.dfu** from the file-system zip, and then (2) select '**Upgrade'** the Library.)

7. Turn off the transmitter, press and hold the '**ENT**' button, and turn the transmitter back on. There should be a USB logo on the screen. (as shown below) This indicates that the transmitter is in USB file transfer mode.

If this is a first-time install of **Deviation**, the PC should prompt you to format the transmitter memory as a disk drive. (NOTE: It may take a few seconds to do so… be patient.) Format the drive using the default options. Once the transmitter has been formatted as a disk drive, the transmitter will mount to your computer like any other disk drive, allowing easy access to the files on the transmitter.

8. Unzip the **deviation-fs-devoXX-x.y.z.zip** (the **Deviation** file system). Open the folder named "filesystem", and then open the folder inside that folder (the name will depend on which transmitter the filesystem is for, i.e. devo8, devo12, etc.). Copy all the files and directories inside **this** folder to the Tx USB drive. (Do not just extract the zip file to the transmitter, or copy everything in the zip file to the transmitter. If you copy the entire .zip file contents, including the folder named "filesystem" and the folder below it, the firmware will not be able to locate the files it needs, and you will experience a blank, black screen

upon restarting the transmitter (a commonly reported problem by new users, who likely have not installed the filesystem files correctly.

If this is an upgrade from a previous Deviation release, it is strongly recommended to back-up the 'models' directory and the tx.ini file, to ensure that no model or transmitter configurations are accidentally overwritten and lost.