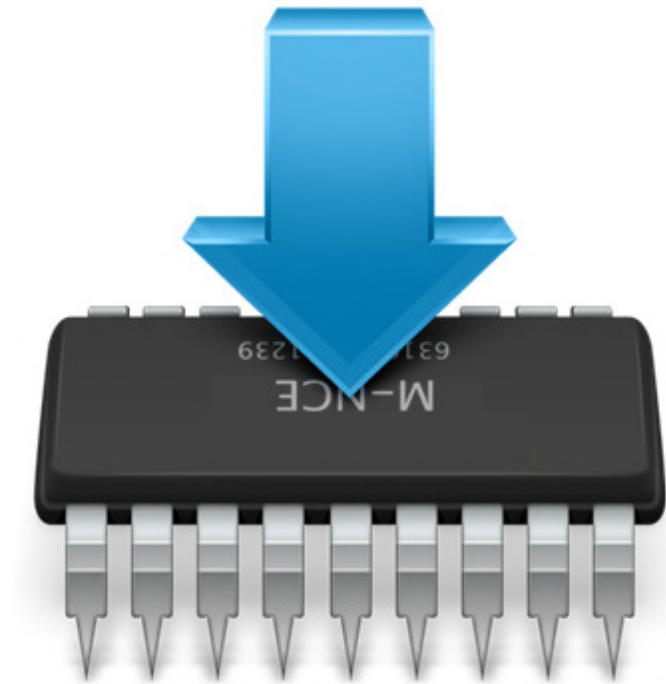


# Firmware Update Procedure

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*Airence / Airlite*



VERSION 2.0



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# Contents

- INTRODUCTION ..... 3**
- INSTALL FIRMWARE UPDATETOOL..... 3**
- UPDATE PROCEDURE AIRENCE..... 6**
  - PREPARATION ..... 6
  - ENTER BOOTLOADER MODE..... 6
  - INSTALL USB BOOTLOADER DRIVERS..... 6
  - FLASH FIRMWARE INTO DEVICE ..... 9
- UPDATE PROCEDURE AIRLITE ..... 10**
  - PREPARATION ..... 10
  - ENTER BOOTLOADER MODE..... 10
  - INSTALL USB BOOTLOADER DRIVERS..... 10
  - FLASH FIRMWARE INTO DEVICE ..... 13
- TROUBLESHOOTING..... 14**
  - ATLIBUSBDfu.DLL NOT FOUND ..... 14
  - JAVA VIRTUAL MACHINE (JVM) ..... 14

## Introduction

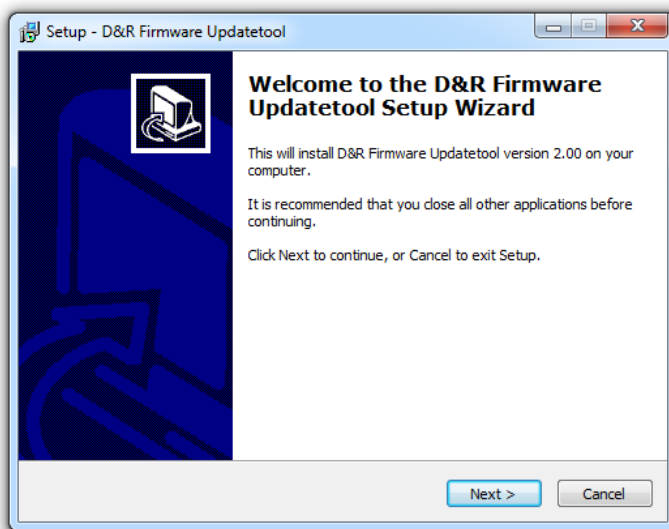
Every now and then new firmware versions will be released to provide the device with new features or solved bug fixes. In order to be able to update the current firmware the bootloader mode must be entered. A specific powering procedure in combination with pressing a button is required to enter bootloader mode (explained in next chapter in more detail). When powering up the mixer in an ordinary way it will enter the normal operation mode and is ready for use.

## Install Firmware Updatetool

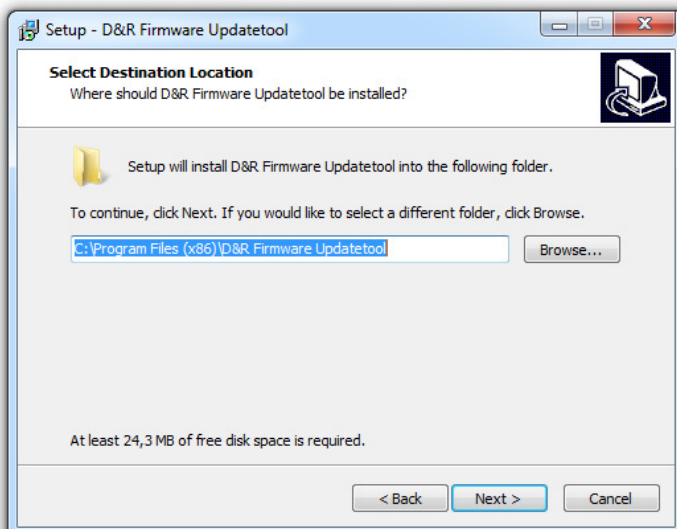
*Firmware Updatetool* is available which is required to perform the firmware update. You can download the installer from the D&R Wiki (<http://www.d-r.nl/wiki/dokuwiki/doku.php?id=software>)

Double click on the setup file. The welcome screen of the installer should appear.

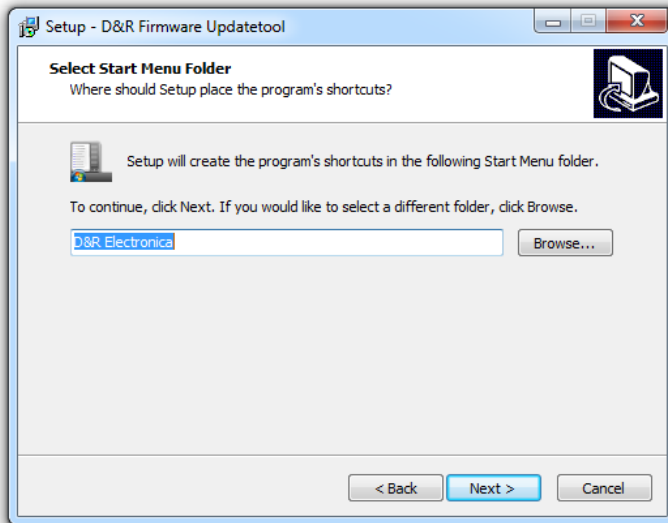
- Press *Next* to continue.



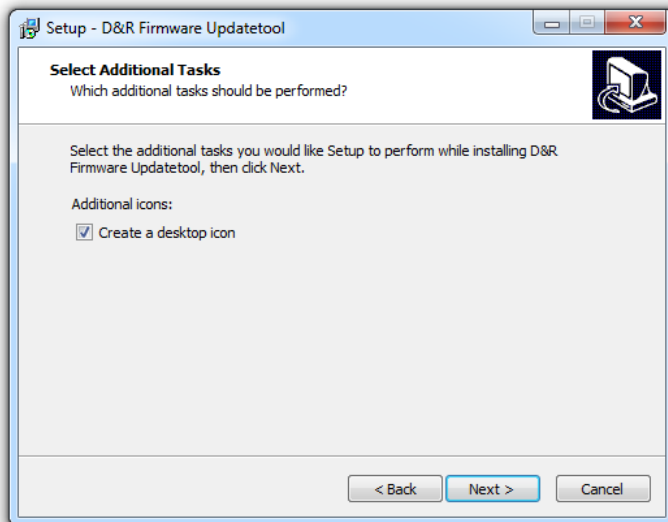
- Select a destination location for the update tool to be installed into and click *Next*.



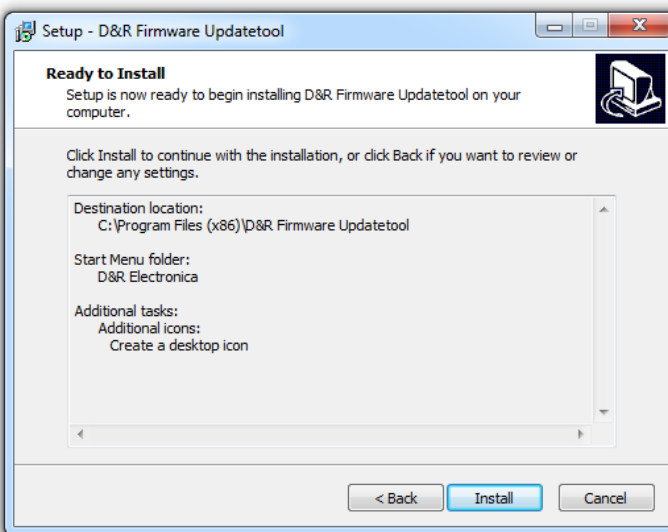
- Select a start menu folder and click *Next*.



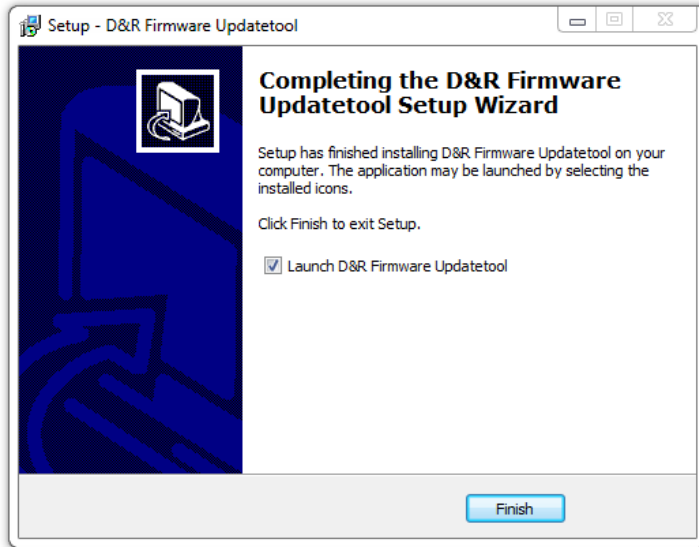
- Enable the 'Create a desktop icon' for a shortcut on the desktop and click *Next*.



- If you agree with the configuration click *Install* to begin installation.



- Setup copies files to the destination install folder. Click *Finish* to complete the installation.



## Update Procedure Airence

### Preparation

Before you can start with the update procedure the following precautions must be taken:

1. Connect a USB cable between the Airence and the PC
2. Download and install Firmware Updatetool: <http://www.d-r.nl/wiki/dokuwiki/doku.php?id=software>
3. Download the latest firmware: <http://www.d-r.nl/wiki/dokuwiki/doku.php?id=software>
4. Startup the Airence in bootloader mode ( see next chapter ).

### Enter Bootloader mode

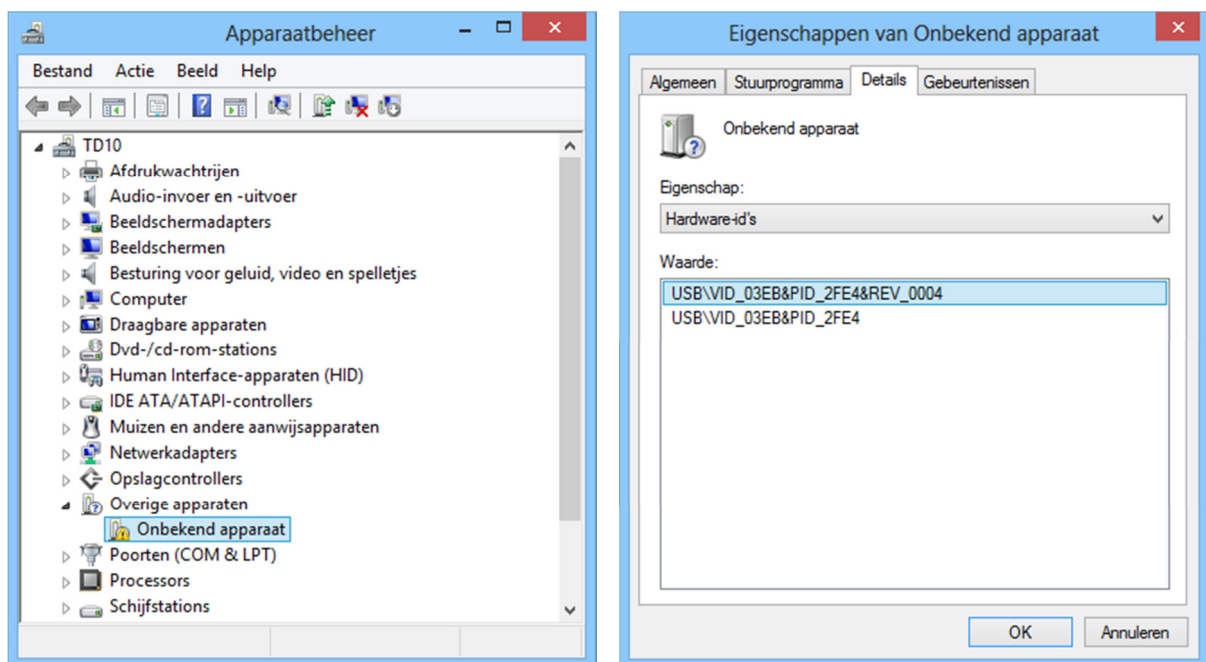
To enter the bootloader mode a special startup sequence should be followed:

1. Disconnect power
2. Push and hold down the rotary encoder switch (located on the control section)
3. Connect power
4. Release the encoder switch

### Install USB bootloader drivers

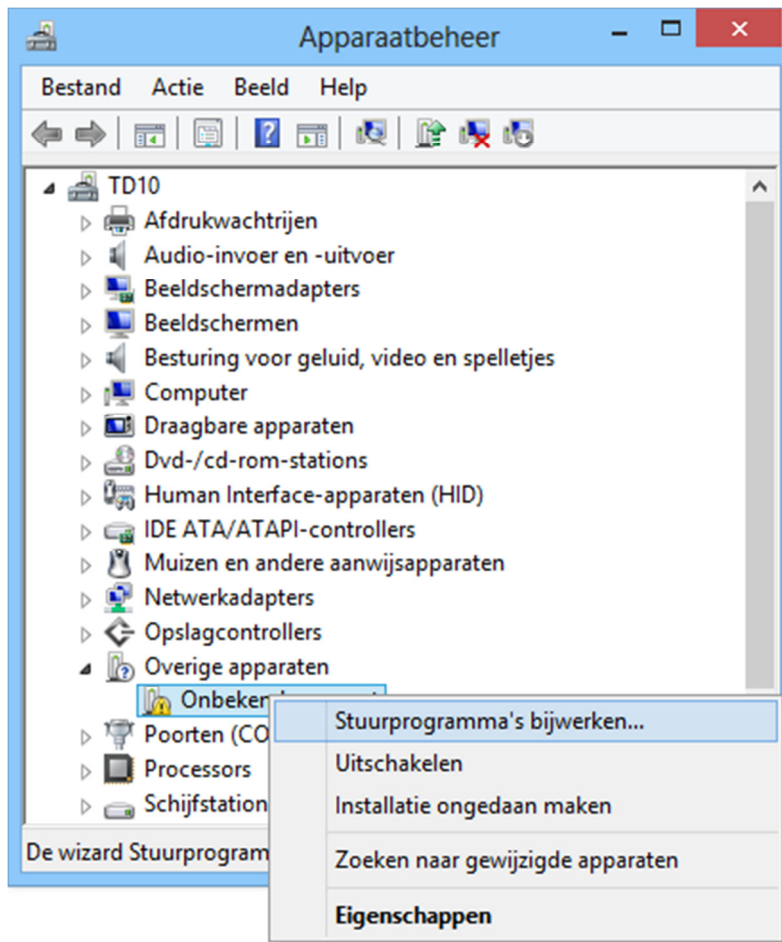
When the Airence enters the bootloader mode it will probably sign up as an *'unknown device'* in the device manager from Windows. To determine if this unknown device is the Airence in bootloader mode, right-click on the device and select properties. On the *Details* tab select *Hardware-id's* from the properties selection box and verify the VID and PID of the device. VID (Vendor ID): **03EB**

PID (Product ID): **2FE4**

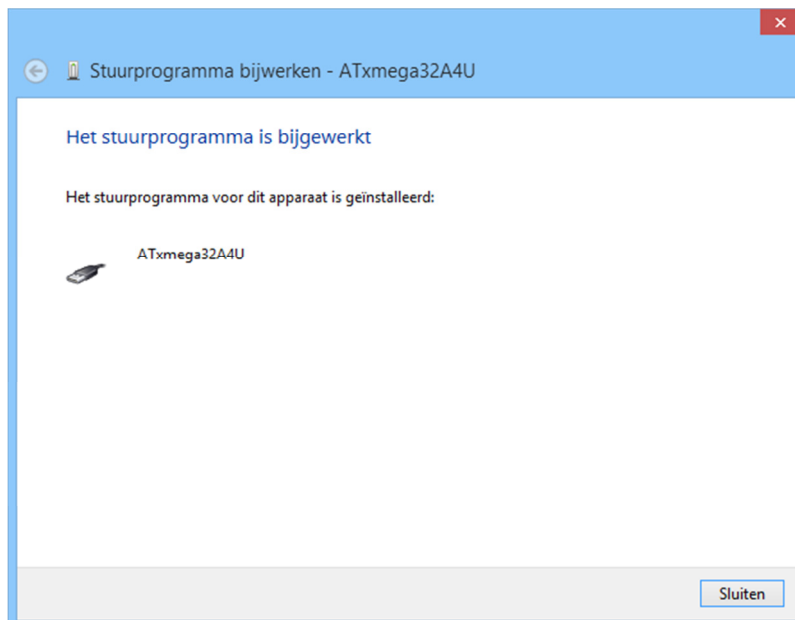


To install the drivers right-click on the device and select update drivers. The drivers can be found in a subdirectory *'usb'* of the Firmware Updatetool installation folder. For example:

**C:\Program Files (x86)\D&R Firmware Updatetool\usb**

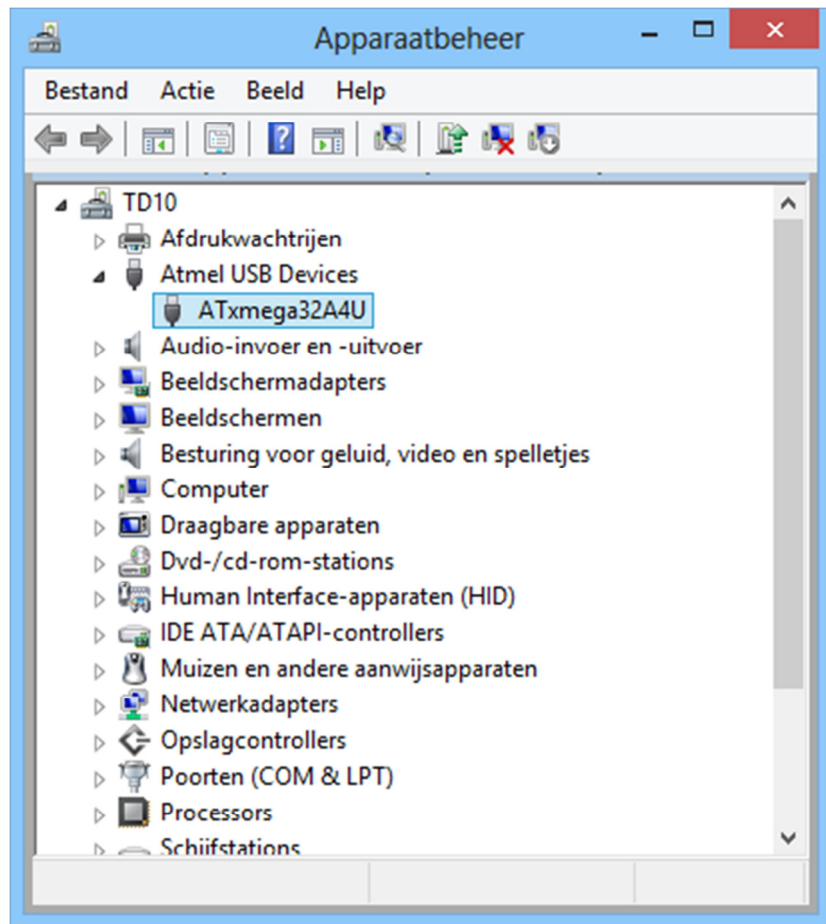


If the installation of the drivers was successfully you should be able to see a screen similar like below:



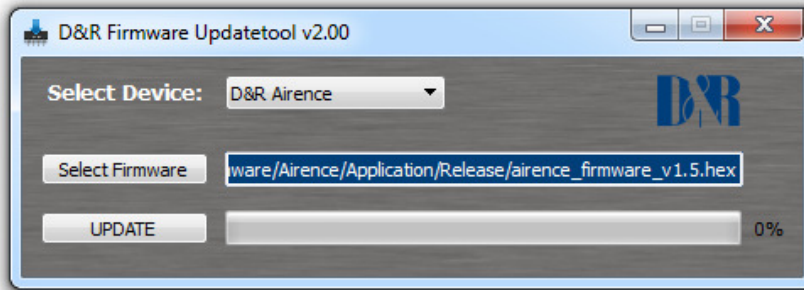
In the device manager the unknown device is correctly installed and now shown as :  
**Atmel USB Devices -> ATxmega32A4U**

The ATxmega32A4U device indicates the Airence is in bootloader mode.



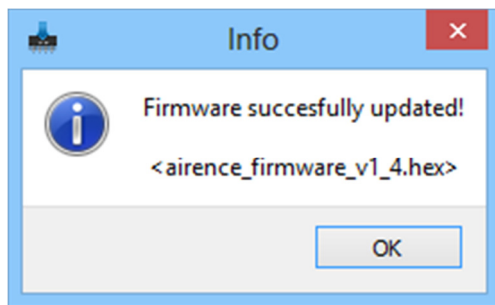


## Flash firmware into device



1. Startup the *D&R Firmware Updatetool* application.
2. Select D&R Airence device from the drop down menu.
3. Select the firmware file (\*.hex).
4. Press the UPDATE button.

The progress bar gives an indication of the status of the update procedure. When the update is successfully performed the Airence automatically leaves the bootloader mode and reboots with the new firmware in normal operation mode. The following message should appear:



# Update Procedure Airlite

## Preparation

Before you can start with the update procedure the following precautions must be taken:

1. Connect a USB cable between the Airlite USB Main port and the PC
2. Download and install Firmware Updatetool: <http://www.d-r.nl/wiki/dokuwiki/doku.php?id=software>
3. Download the latest firmware: <http://www.d-r.nl/wiki/dokuwiki/doku.php?id=software>
4. Startup the Airlite in bootloader mode ( see next chapter ).

## Enter Bootloader mode

To enter the bootloader mode a special startup sequence should be followed:

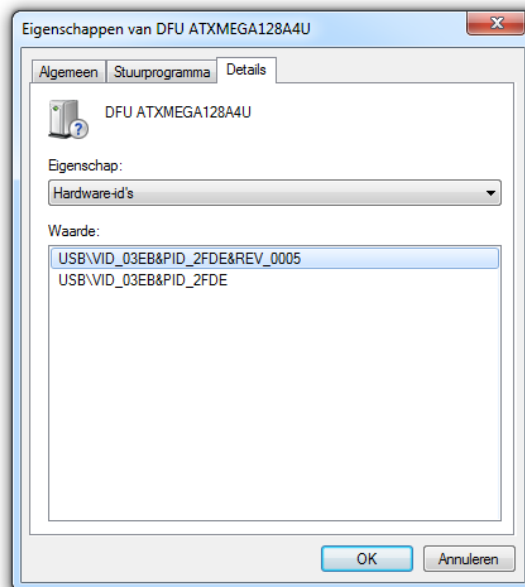
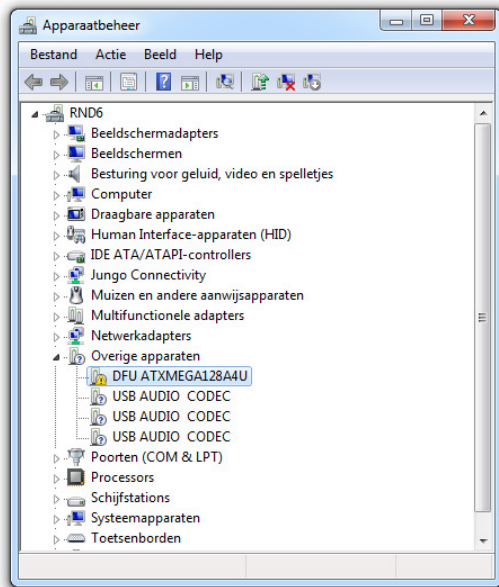
1. Disconnect power
2. Push and hold down the [CONN]-switch (located on channel 8 )
3. Connect power
4. Release the [CONN]-switch

## Install USB bootloader drivers

When the Airlite enters the bootloader mode it will probably sign up as an 'unknown device' or 'DFU ATXMEGA128A4U' in the device manager from Windows (yellow exclamation mark). To determine if this unknown device is the Airlite in bootloader mode, right-click on the device and select properties. On the *Details* tab select *Hardware-id's* from the properties selection box and verify the VID and PID of the device.

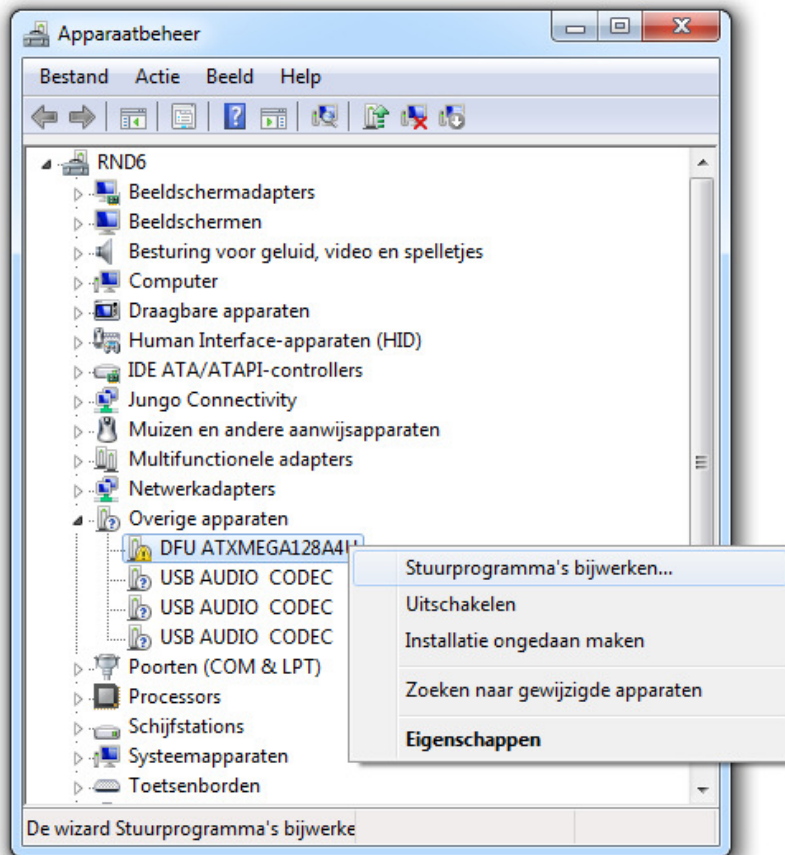
VID (Vendor ID): **03EB**

PID (Product ID): **2FE4**

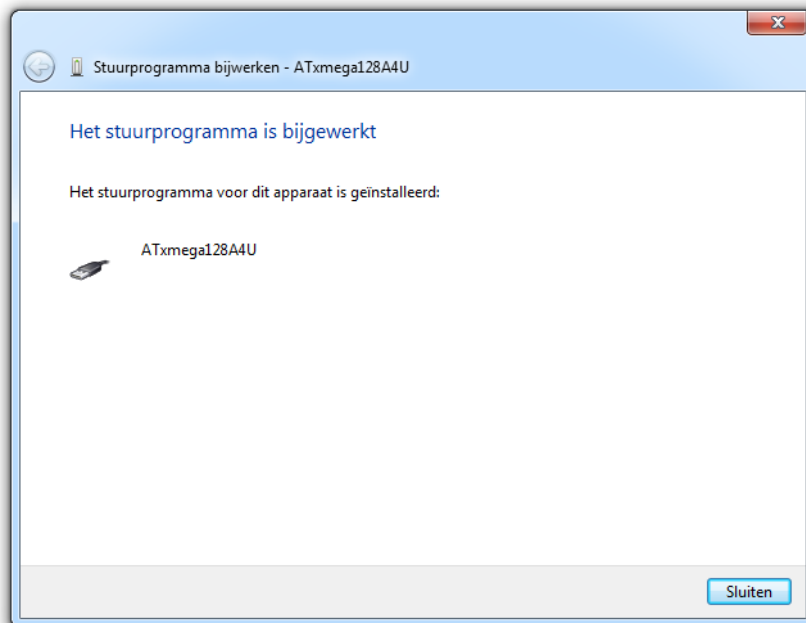


To install the drivers right-click on the device and select update drivers. The drivers can be found in a subdirectory 'usb' of the Firmware Updatetool installation folder. For example:

**C:\Program Files (x86)\D&R Firmware Updatetool\usb**

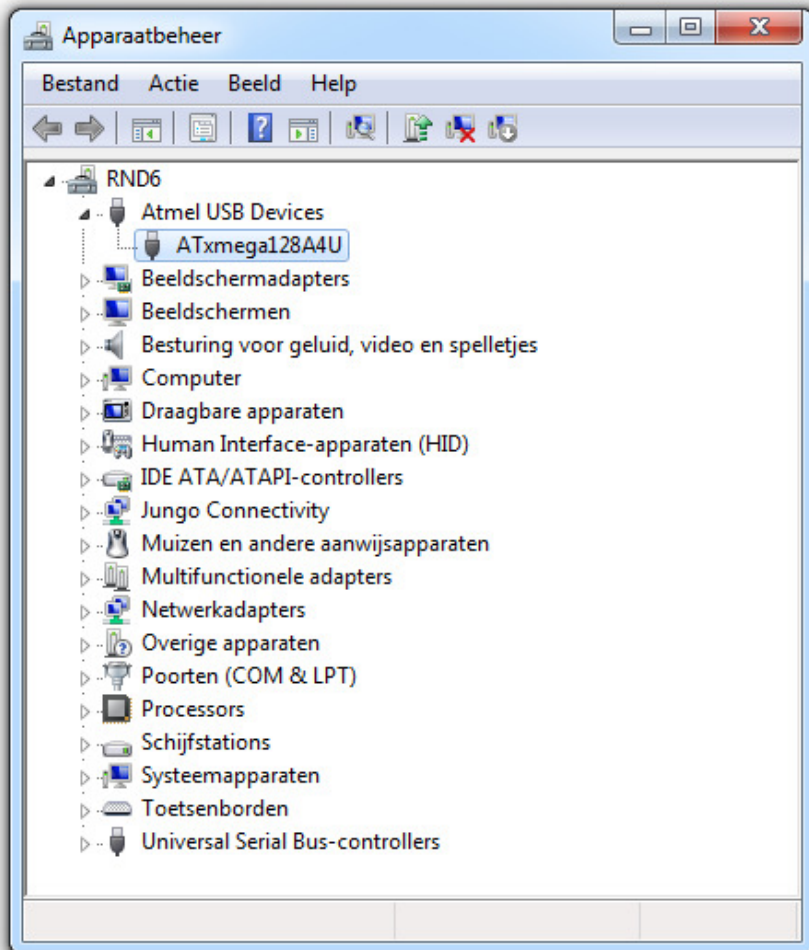


If the installation of the drivers was succesfully you should be able to see a screen similar like below:

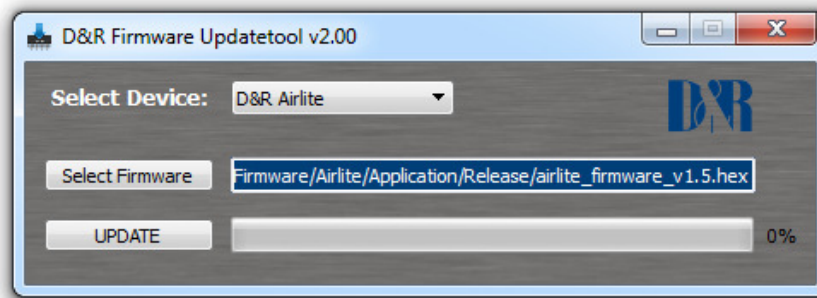


In the device manager the unknown device is correctly installed and now shown as :  
**Atmel USB Devices -> ATxmega128A4U**

The ATxmega128A4U device indicates the Airlite is in bootloader mode.

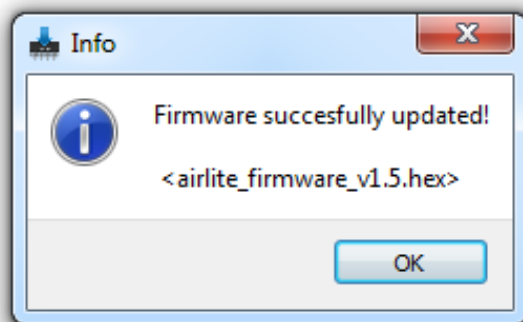


## Flash firmware into device



5. Startup the *D&R Firmware Updatetool* application.
6. Select D&R Airlite device from the drop down menu.
7. Select the firmware file (\*.hex).
8. Press the UPDATE button.

The progress bar gives an indication of the status of the update procedure. When the update is successfully performed the Airlite automatically leaves the bootloader mode and reboots with the new firmware in normal operation mode. The following message should appear:

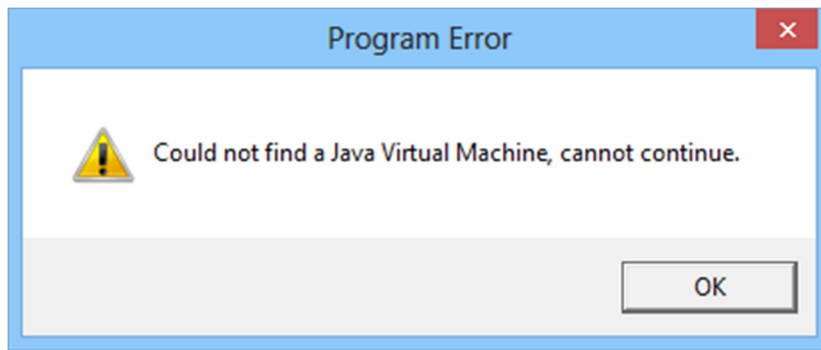


## Troubleshooting

### AtLibUsbDfu.dll not found

If you were prompted with the AtLibUsbDfu.dll not found error message, the USB bootloader drivers are not installed. Please see the chapter '*Install USB bootloader drivers*' in this document for installing the drivers for your mixer.

### Java virtual machine (JVM)



If you were prompted with the Java Virtual Machine (JVM) error, it means JVM is not installed on your system. Java is required for the *Airence Firmware Updatetool*.

You can download it for free from: <http://java.com/>