Manuals+ — User Manuals Simplified.

hypex DSP3-213 v1.xx Filter Design Installation Guide

Contents

hypex DSP3-213 v1.xx Filter Design

Specifications

- Product Name: Hypex Filter Design and Hypex FusionAmp Firmware
- Manufacturer: Hypex Electronics B.V.
- Compatibility: DSP modules by Hypex Electronics B.V.
- Website: **www.hypex.nl**

PLEASE NOTE

- The explanations in this manual assume that you have a working knowledge of your Windows® computer.
- For information on your operating system, please refer to your operating system manual or the online Help function.
- The explanations of screens and procedures in this manual are primarily for Windows 10® in Windows environments. The screens may vary depending on the version of the operating system. Version numbers in the examples and pictures may vary: Unless specifically mentioned in the text, always check the website for the latest versions.
- This manual is an independent publication and is neither affiliated with, nor authorized, sponsored, or approved by, Microsoft Corporation.

SOFTWARE LICENSE

The SOFTWARE LICENSE acknowledgment will appear when you install the software. By using all or any portion of the software in the machine, you are agreeing to be bound by the terms of the SOFTWARE LICENSE.
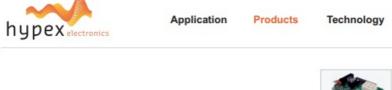
BEFORE INSTALLING THE SOFTWARE

- Description
- Hypex Filter Designer (HFD) is a program to configure Hypex Electronics B.V. DSP modules. Software
- Software and documentation can be found and downloaded at www.hypex.nl.
- Connecting device
- For connecting and operating your device, consult the specified device manual.

Hypex Filter Design Installation

Software Download

- **Step 1**

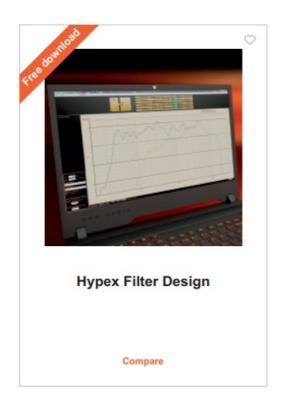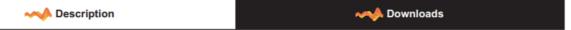 Go to **www.hypex.nl** and select Accessories in the products tab.
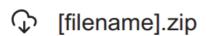

- **Step 2**

  Select Hypex Filter Design.

- **Step 3**

  Select the **Downloads** tab and find the latest version. Click on the corresponding button and follow the download instructions from your webbrowser.
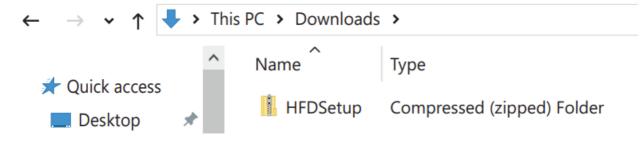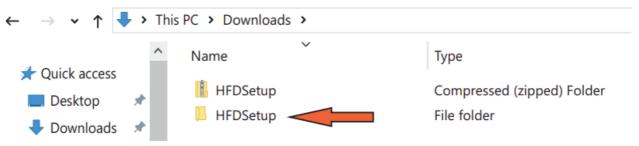

- **Step 4**

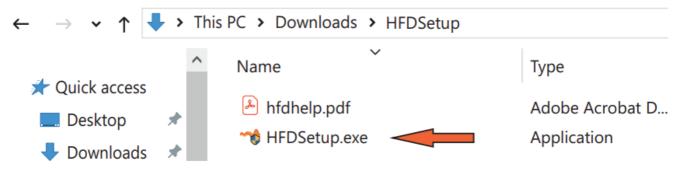 Open the download location with Windows File Explorer and locate the compressed HFD file.

← → ∨ ↑ ⬇ › This PC › Downloads ›

Name ^		Type
🗜	HFDSetup	Compressed (zipped) Folder

⭐ Quick access

🖥 Desktop 📌

- **Step 5**

  Unpack the file.

  ← → ∨ ↑ ⬇ › This PC › Downloads ›

	Name		Type
⭐ Quick access			
🖥 Desktop 📌	🗜 HFDSetup		Compressed (zipped) Folder
⬇ Downloads 📌	📁 HFDSetup	⬅	File folder
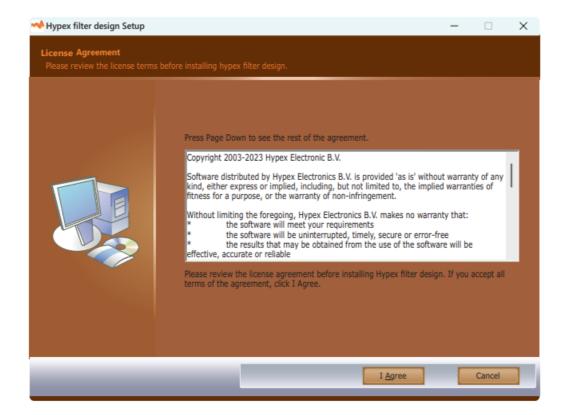
Software installation

- **Step 1**

  Open the unpacked folder and run Setup.

  ← → ∨ ↑ ⬇ › This PC › Downloads › HFDSetup

	Name		Type
⭐ Quick access			
🖥 Desktop 📌	📄 hfdhelp.pdf		Adobe Acrobat D...
⬇ Downloads 📌	🌊 HFDSetup.exe	⬅	Application
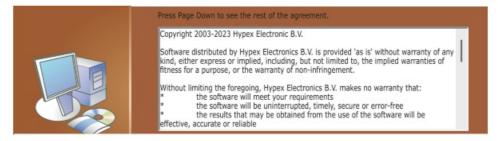
  ○ Hypex Filter Design Installer will then prompt:

- **Step 2**

  If you accept all terms off the agreement, press

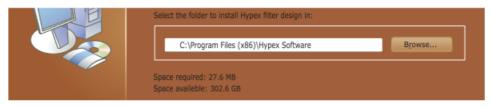- **Step 3**

  Select preferences and press

- **Step 4**

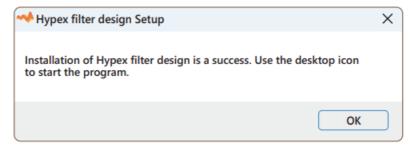 Choose the software destination and press to start the installation process.

- **Step 5**

  When the istallation process is completed, press

- To close the Confirmation window, press [OK]
- Release notes will popup and a new desktop icon is created to start the program.
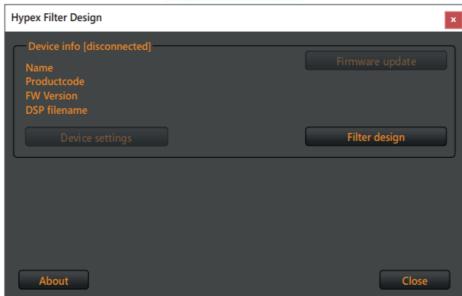

Hypex FusionAmp Firmware Update

Run the program and connect FusionAmp

- **Step 1**

  Locate HFD or the shortcut and execute HFD.
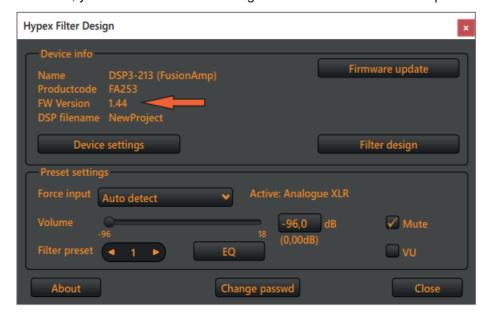

- **Step 2**

  Connect the FusionAmp with USB.

- **Step 3**

  Power on the FusionAmp.

HFD automatically detects the device and displays the current firmware version in: **Device info**

Depending on this version, you have to determine the right firmware file in the next chapter.
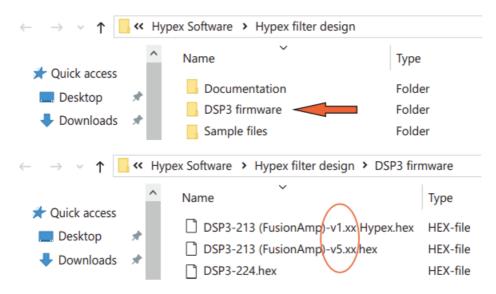

DSP Firmware Update

- **Step 1**

  Press **Firmware update**

- **Step 2**

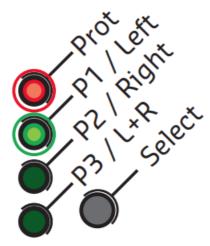 The firmware* can be found in the folder:

  - The file named DSP3-213 v1.xx is intended for FusionAmps currently running v1.3x or v1.4x.
  - The file named DSP3-213 v5.xx can only be installed on FusionAmps currently running v5.xx
  - Select the corresponding file and press Open.
  - Check our website for the latest version:

    Locate your product and select the **Downloads** tab for additional files.
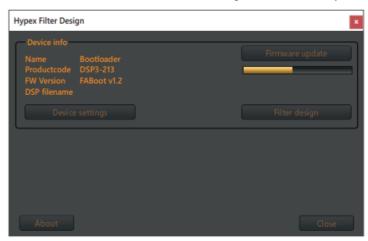
- **Step 3**

  HFD automatically updates the firmware on the device.

  The lights on the FusionAmp

  ('Prot' and 'P1') will blink during this process.
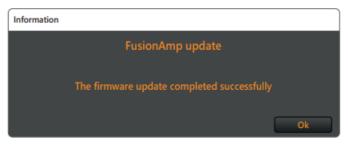

  Don't shut down or disconnect the USB cable. This could damage the FusionAmp!

- **Step 4**

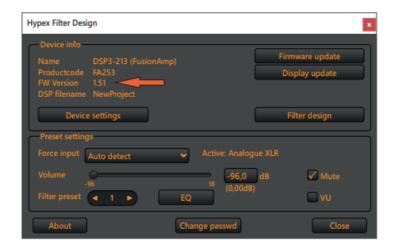 The DSP automatically reboots when updating is completed.

  Press **Ok** to finish the process.

Update complete

Confirm :
When the update process is succesfully executed the new firmware version is shown in HFD.
Restart the FusionAmp.

Power off/on.

Option A (Single FusionAmp):

- **Step 1**
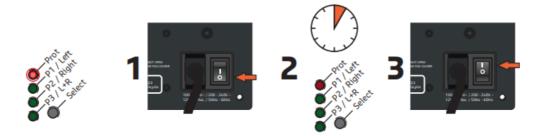
  Power down the FusionAmp

- **Step 2**

  Wait until the red light 'Prot' on the FusionAmp is turned off.

- **Step 3**

  Power up the the FusionAmp.

Option B (Multiple linked FusionAmps):

- **Step 1**

  Power down the Replica.

- **Step 2**

  Power down the Primary and wait until the red light 'Prot' on the

  FusionAmp is turned off.
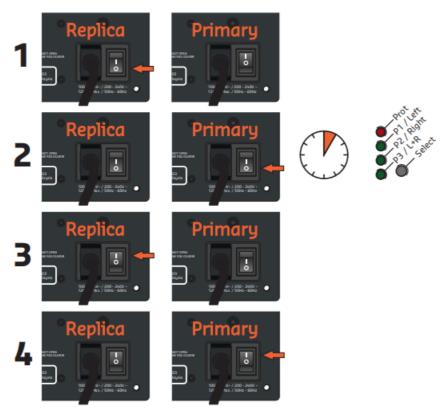
- **Step 3**

  Power up the Replica.
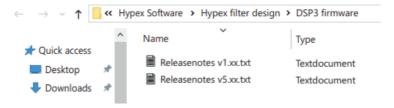
  (This is nesessary for the Pimary to be able to detect the Replica and configure its settings).

- **Step 4**

  Power up the Primary.

- Release notes can be found in the same folder as the firmware:

Troubleshooting

- In case of an error during the update process the next message is displayed:

- When the device name is `Bootloader` after turning on or reconnecting, the same error occured.

  In this case, the FusionAmp is not broken;

  it will not function, however the firmware can still be re-installed.
- Execute in order to (re-)install the firmware to fix it.

Fusion OLED Display Firmware Update

Run program and connect FusionAmp

If the device or software is not ready yet: Follow the instructions.

Firmware download

- **Step 1**

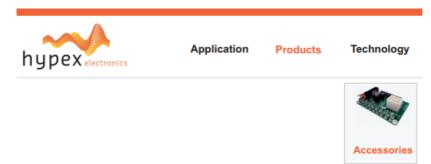 Go to **www.hypex.nl** and select Accessories in the products tab.

- **Step 2**

  Select Fusion OLED Display.

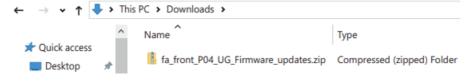- **Step 3**

  Select the tab and find the latest version. Click on the corresponding button and follow the download instructions from your web browser.
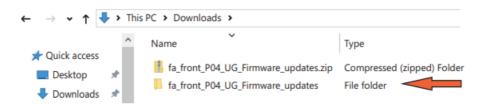
Firmware
⤓ [filename].zip ⬇

- **Step 4**

  Open the download location with Windows File Explorer and locate the compressed firmware-file.

  ← → ∨ ↑ ⬇ > This PC > Downloads >

	Name ^	Type
★ Quick access		
🖥 Desktop 📌	📦 fa_front_P04_UG_Firmware_updates.zip	Compressed (zipped) Folder

- **Step 5**

  Unpack the file.

  ← → ∨ ↑ ⬇ > This PC > Downloads >

	Name ∨	Type
★ Quick access		
🖥 Desktop 📌	📦 fa_front_P04_UG_Firmware_updates.zip	Compressed (zipped) Folder
⬇ Downloads 📌	📁 fa_front_P04_UG_Firmware_updates	File folder ⬅

Firmware update

- **Step 1**

  Press **Display update**

  Device info

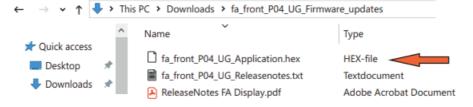 | Name | DSP3-213 (FusionAmp) | | Firmware update |
  |---|---|---|---|
  | Productcode | FA253 | ➡ | Display update |
  | FW Version | 1.51 | | |

- **Step 2**

  After you download the latest firmware from our website, the folder with the display firmware can be found in the folder: 📁 **Downloads**

  Select the HEX file and press **Open**

  Note: Release notes can be found in the same folder.

  ← → ∨ ↑ ⬇ > This PC > Downloads > fa_front_P04_UG_Firmware_updates

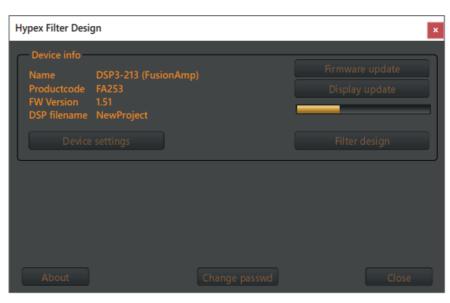 | | Name ∨ | Type |
  |---|---|---|
  | ★ Quick access | | |
  | 🖥 Desktop 📌 | 📄 fa_front_P04_UG_Application.hex | HEX-file ⬅ |
  | ⬇ Downloads 📌 | 📄 fa_front_P04_UG_Releasenotes.txt | Textdocument |
  | | 📕 ReleaseNotes FA Display.pdf | Adobe Acrobat Document |

- **Step 3**

  HFD automatically updates the firmware on the display.

  The status is shown in HFD and the display will switch to bootloader status.

  A lot of data is being transfered so there is nothing wrong if this process will take a while…

Power and connections must be maintained during the upload process untill the next step.

- **Step 4**

A popup window will confirm a successful update.

The display will show the word PASS.

  - Press [Ok] to finish the process.
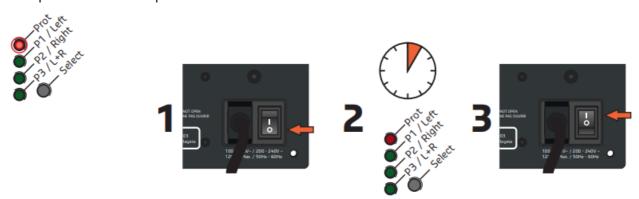
Update complete

- **Step 1**

Power down the FusionAmp and wait until the red light 'Prot' on the FusionAmp is turned off.
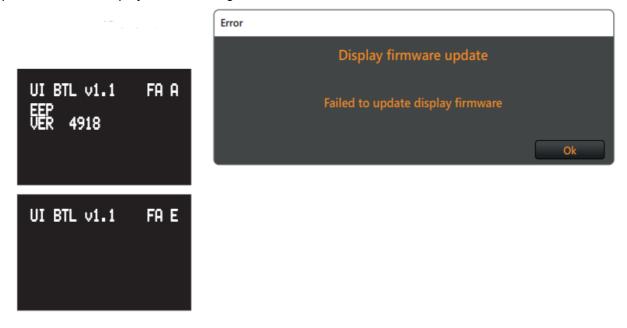
- **Step 2**

Wait at least 5 seconds.

- **Step 3**

Power up the the FusionAmp.

Troubleshooting

The next message is displayed in HFD in case of an error during the update process.

- The OLED display will freeze at the line it was processing:
- If this error occured before re-starting the device, HFD will not show a warning but the IR receiver is unresponsive and the display is still showing bootloader mode.

In both cases:
Execute the update process starting at chapter 3.3 and the display will function normally again after a successful update.

FAQ

Q: Where can I find the software and documentation for Hypex Filter Designer?

A: The software and documentation can be found and downloaded at **www.hypex.nl**.

Q: How can I troubleshoot issues during the firmware update process?

A: If you encounter any problems during the update process, refer to the troubleshooting section provided in the user manual or contact customer support for assistance.

Documents / Resources

hypex DSP3-213 v1.xx Filter Design [pdf] Installation Guide
DSP3-213 v1.xx, 05xx, DSP3-213 v1.xx Filter Design, DSP3-213 v1.xx, Filter Design, Design

References

- [**User Manual**](#)