At the time of writing (Nov. 2024) no major firmware revisions are planned for the GND-1T. Any updates uploaded to the website will address minor bug fixes or rarely add minor features. If you believe you've found a bug, please try updating to the latest version first. If you still see an issue, please send bug reports to gnd1T@richardvanhoesel.com.The update procedure below requires access to a computer with Windows 10 or later or MAC OS Catalina 10.15 or later. Earlier OS versions may work but have not been tested by us

Update Instructions:

Check your current firmware by holding the Patch button on your GND-1T during power up, and compare it to the latest version indicated on the website at https://richardvanhoesel.com/gnd1t.

Download the latest firmware using the "Latest firmware download" button on the website

You will also need these tools installed:

1. Teensy loader app:

Windows (exe file)

https://www.dropbox.com/scl/fi/38e6aa1chyjawl9vr2ndu/teensy.exe?rlkey=zya7oeijin9pqt53fw1b7mse7&st=gwsjzkx8&dl=0

MAC OS (tar file requires unzipping)

https://www.dropbox.com/scl/fi/et96e1orxejxdzt424gls/teensy-tools-0.60.3-macos.tar?rlkey=e15gjc62cad46x1u8d7qkgt7p&st=uc720z5u&dl=0

2. TyTools (latest version for Windows or MAC)

https://github.com/Koromix/tytools/releases

In the TyTools package, we'll be using just TyCommander.

Instructions to load the ehex firmware:

Start the Teensy app (MAC) or run teensy.exe (Windows):
File>Open Hex File   (direct it to where you have downloaded the firmware)
Enable the "Auto" button underneath Help

Start TyCommander:
Press the Bootloader button. This will get the Teensy process started, which is all we're using TyCommander for.

The GND-1T screen should go blank at this point. After a second or two you should see the Teensy program starting the upload process, saying 'erasing' After up to about 20 seconds, this should switch to "Programming". After programming is completed, it's usually a good idea to power cycle the GND-1T to run the new firmware.
If after the erasing stage you get an error message, try re-enabling the Auto button on Teensy loader. If that doesn't start the program cycle, restart the Teensy loader and try Auto again. This time the upload should start automatically, and there should be no error.
Any issues, just get in touch.

From November 2024 onwards FW changes will be described in this document:

FW 241103. Bug fix for the 'clear parameter' button on the XP mapping page (and extension to now also allow clearing of global matrix parameters). Addition of drum overdrive control (Drum2 page), and new Erode bend (Bends2 page). Deletion of warp-bend parameter. Manual and MIDI ref versions 1.02 describe these two new parameters