

Atmosphere Firmware Update

Hardware Version: **v2.0** // Firmware Update: **fw2.5.2**

Improvements

- **MIDI input functionality:** Atmosphere can now be controlled via midi output devices.
- **Expression control functionality:** Atmosphere can now be controlled via a TRS expression pedal or expression knob.
- **LED animations:** navigating between patches, firmware updates, and other actions result in more immersive visuals.
- **USB connection stability:** mounting Atmosphere's internal storage to your computer for file loading/editing is now more reliable.
- **Default Settings reset:** Atmosphere can be reset to default settings by holding down KEY UP + KEY DOWN simultaneously for during bootup logo.
- **Smooth volume adjustments:** when adjusting output volume in the settings, Atmosphere will now smoothly ramp to the new selection making this adjustment more useful for live adjustments.
- **Bug fixes:**
 - Resolves issue of using MIDI Bank +/- commands while on the first/last bank would cause Atmosphere to enter non-existent banks.
 - Resolves issue of some devices struggling to mount Atmosphere's file storage when connecting to a computer via USB Mode.
- **Performance updates:** Atmosphere's backend has been further tuned to improve overall performance.

Supported Devices

Atmosphere v2.0

There are multiple hardware versions of Atmosphere v2 which require different firmware files.

Double check your version on the back panel sticker before installing.

If the sticker of your device is covered or missing, remove the 4 screws of the back panel and look at the circuit board to check your version.

Version 2.0



Version 2.1



If you try to install firmware for v2.1 on v2.0 (or vice versa), you will receive an error message.

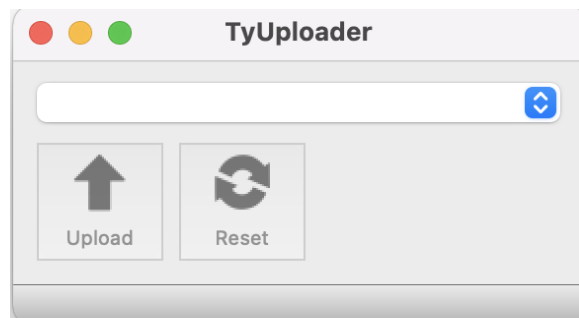
Update Instructions

Download firmware file:

01. Download firmware file: [Atmosphere_v2.0_fw2.5.2.hex](#)

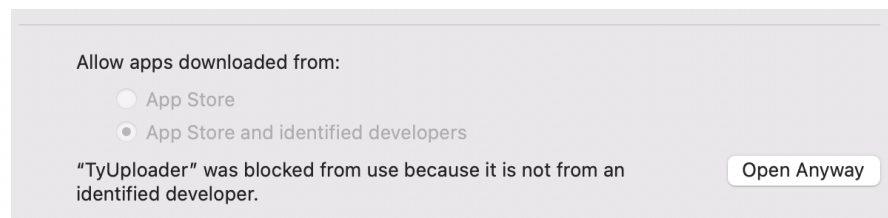
Download firmware update software:

02. Download & install **TyTools** ([Download for Mac](#) | [Download for Windows](#)) (an open source firmware uploader compatible with Atmosphere).
03. Open the TyUploader application.



MacOS Notes:

- When first opening TyUploader on macOS, you may get an error. Such as "TyUploader cannot be opened because the developer cannot be verified."
- To open anyway: open **System Preferences**, navigate to the **Security & Privacy** settings, under the **General** tab click "Open Anyway."



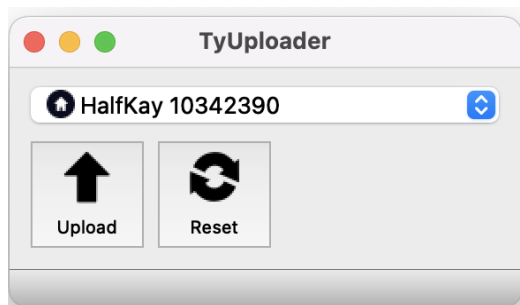
Connect Atmosphere to computer:

04. Once TyUploader is opened, connect Atmosphere to your computer via a USB C cable.

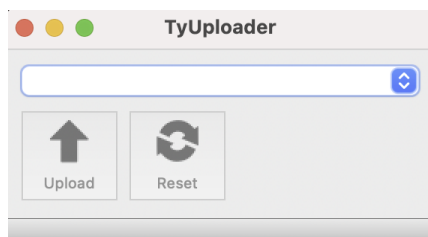
⚠ IMPORTANT ⚠

Atmosphere will receive power via the USB C cable. Never simultaneously power Atmosphere with USB C & 9V Power Adapter Simultaneously. Doing so will overpower Atmosphere causing damage to it and other devices.

05. Once connected successfully, TyUpdater will display “HalfKay xxxxxx” or something “Dual Serial xxxxxx” or something like that.



Note: If TyUpdater is blank like this:



...then your Atmosphere is not connected.

Update Atmosphere's firmware:

06. While Atmosphere is properly connected, in TyUploader click the “Upload” button and locate the previously downloaded firmware file. The update should take only a few moments. A successful update is indicated with an LED animation followed by a reboot.

⚠ IMPORTANT ⚠

Do NOT unplug Atmosphere until it reboots. Unplugging during a firmware update will cause problems.

07. Once Atmosphere reboots, the firmware update was successful. You can verify Atmosphere’s current firmware by pressing and holding the KEY UP button during Atmosphere’s bootup screen. The current firmware version will be displayed until the ABORT button is pressed.

Enjoy:

08. Enjoy and try out all of the updates and improvements of your Atmosphere. 😊

Additional Notes:

- See instruction manual regarding how to use new features.
- Atmosphere retains all user settings after a firmware update.
- Updating the firmware does not add, delete, or change any of the sound files loaded on Atmosphere.
- Audio played from Atmosphere while connected to a computer via USB may be moderately distorted and degraded by digital interference. For best audio output, power Atmosphere via an isolated 9v power supply (but never power Atmosphere with USB and 9v simultaneously).
- Contact Aerospace Audio for any questions, suggestions, and feedback!

Email:

contact@aerospaceaudio.com