

### Welcome

Freqport products have been developed for audio producers, engineers and song writers to enable them to craft better sound through pure analog processing - with all of the benefits of digital integration, control and recall.

#### "real analog inside your computer"

The current product lineup is just the beginning and we would like to sincerely thank you for becoming part of our family.

#### **THANKYOU:)**

### **Quick Start**

- 1. Download installers from support.freqport.com and install to default location on host computer and reboot.
- 2. Firmly plug the FT-1 directly into a spare USB port on the host computer.
- 3. Turn-on power to the FT-1.
- 4. Open your DAW, find freqtube from the plugin list then add to an audio track.
- 5. Play, automate and enjoy the sound of real tubes in your DAW.
- 6. To render (bounce) the final track then ensure real-time rendering is used in your DAW.



### Hardware

The FT-1 freqtube hardware is designed for achieving maximum analog performance with professional 32bit converters, all metal enclosure, and minimal aesthetic with full colour high resolution display to show assignments and status. DC power is converted to low noise high voltage within the unit. USB-C connectivity to a host computer is provided via rear connector.

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freqtube



♣ 12VDC

Power Switch

USB-C connector for audio and control

Power input (use only frequent low noise power supply to maintain warrantee)



### Software

Frequibe is available as an installer for MAC and PC. The installed software consists of multiple plug-in formats along with a hub application and in the case of windows also a driver. Freqport is continuously working on updates and platform validation testing. Please refer to the freqport website for latest up-to-date compatibility and software releases.

#### Installation

- 1. First check supported systems here: support.freqport.com/portal/en/kb/articles/supported-systems
- 2. Download the appropriate installer from mac or pc from here: support.freqport.com/portal/en/kb/freqport/downloads
- 3. For windows please run Add or remove software and Uninstall existing installation of freqtube before installing and update.
- 4. Extract the installer from the zip file then run the installer (pkg, or exe).
- 5. Accept all licences and prompts to allow installation. Please only install to the default locations (do not install to a different location).
- 6. Reboot computer.
- 7. Ensure FT-1 is firmly plugged directly into a spare USB port on the host computer.
- 8. Turn-on power to the FT-1.

#### **DAW** and Plugin

All FT-1 audio processing is done in hardware. The plugin UI shows all audio processing options and paths within the hardware. All controls are automobile and can be stored and recalled via presets.

- Before using your DAW check articles on optimizing your DAW for freqtube here: support.freqport.com/portal/en/kb/freqport
- To use the plugin simply open your DAW, find freqtube from the plugin list then add to an audio track.
- The maximum number of instances of the plugin you can open is the number of hardware tube circuits used. For example; a maximum of two stereo instances can be opened in a project.
- To render (bounce) the final track then ensure real-time rendering is used in your DAW.

#### Hub

A companion app called the hub is opened automatically in the background when any freqtube plugin is used. The hub not required to be opened manually by the user at any time, other than to set some configuration settings during use, or showing status of the freqport system. Further details shown on the hub page.





Plugin
The plugin UI shows the hardware audio processing paths and controls.

Load, save and select presets. Current settings are saved with DAW project.

DAW track name and colour - used in hardware knob control assigns.

Double click to manually name track if daw does not support.

Primary tube path filter(hardware based modeled digital). Enable or bypass. —

Analog tube drive level.

Analog tube overdrive drive setting.

Converter clipping indicator (only enabled when filter is disabled)

Power a tube on or off. For stereo enable two tubes (link symbol shown), for mono enable one tube.

Harmonics visualization graphs

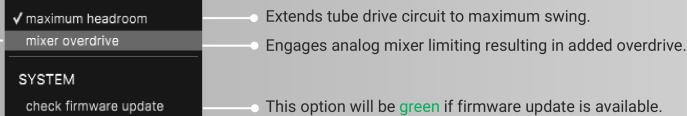
Analog tube circuit proprietary harmonics control

Assign any available of 8x hardware knobs to controls. Click once then move knob UI to assign. Double click to clear existing.

Analog mixer between parallel and primary paths —



Track colour will be assigned from daw automatically if daw supports, otherwise use palette to manually select colour. Colour is used in hardware knob control assigns.



Eye helper. Toggle between showing active audio paths, or hide paths.

Parallel path filter(hardware based modeled digital). Enable or bypass.

Parallel path filter controls. Click on label to enter value.

ANALOG MIXER

Filter type: low pass, high pass, peaking or bandpass with 12 or 24dB/octable

Tubes visible and shown in off condition can be powered on and used in this instance. Tubes not shown here (invisible) means they are used in another instance and cannot be selected.

Parallel path phase invert (180deg phase shift).

Output meter and dac level control.

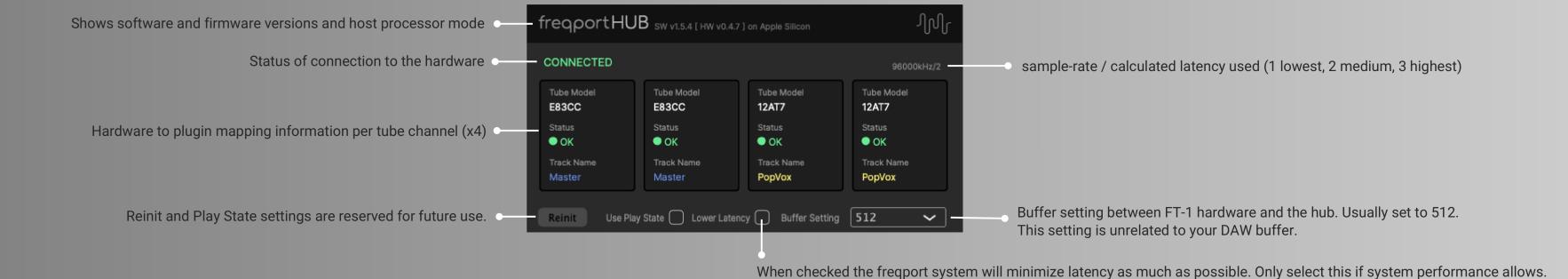


Use this bypass button (don't use native DAW bypass) when bypassing the freqtube.

### Hub

The hub runs automatically in the background when plugins are used in the DAW.

Generally the user does not need to access the hub other than to optimize latency or for informative reasons.





# Firmware Updater

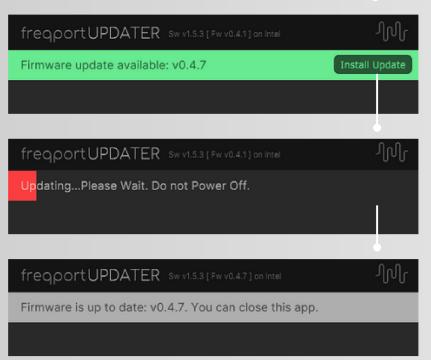
Occasionally a hardware device firmware update will be part of the installed software. Firmware updates are done using the freqport updater app.

The updater app can be run from one of three methods:

- from plugin by selecting the "run firmware updater" setting (shown here), or
- from the hub when an update is available, or
- when daw is closed by manually opening freqtube\_hub.app (osx) or freqtube\_hub.exe (windows)



When an update is available the plugin will indicate by green highlights.



Click to start update

Warning: Close the DAW and use USB-A port on computer for updating firmware.

Wait for around one minute for update to complete.

When update is finished, or already up to date then this message will be displayed.



# Hardware Specifications

#### **Power Input**

24W DC power adaptor Use only freqport adaptor

#### **Adaptor Mains**

100Vac - 240Vac. 50/60Hz.

#### **Ambient Temperature Range**

0 to 50C

#### **USB Connector**

Type-C 480Mpbs.

#### **ADC/DAC Converters**

Professional specification ESS Converters 120dB DNR 32bit DAC 116dB DNR 32bit ADC

#### **Dimensions**

Unit: 205mm x 130mm x 50mm (W x H x D) Boxed: 350mm x 190mm x 80mm (W x H x D)

#### Weight

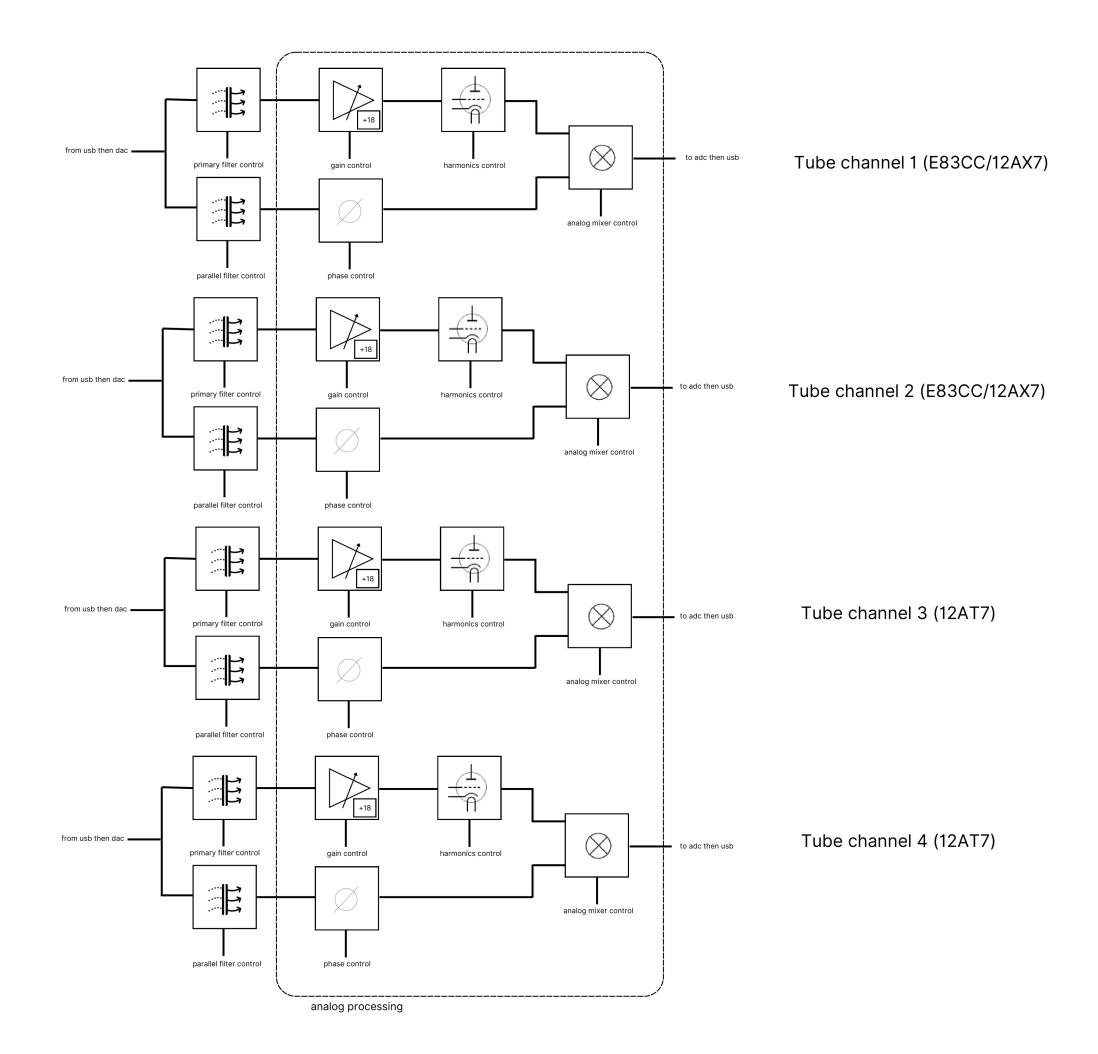
Unit: 810g Boxed: 1.43kg

#### **Control and Indication**

Full Color Display 8 assignable knobs Power switch



## **Block Schematic**





### **Notices**

#### **Important Safety Information**

Before using this unit, be sure to carefully read the applicable items of these operating instructions and the safety suggestions. Afterwards, keep them handy for future reference. Take special care to follow the warnings indicated on the unit, as well as in the operating instructions.

- Read and keep these instructions.
- Heed all warnings.
- Follow all instructions.
- Do not use this apparatus near water.
- Clean only with dry cloth.
- Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.
- Do not install near any heat source such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
- Use only a power supply sourced from freqport. Attach the power adapter blade that is suitable for your country. Do not force or modify any part of the product connectors.
- Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
- Only use with attachments/accessories specified by the manufacturer.
- Unplug this apparatus during lightning storms or when unused for long periods of time.
- Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.

#### **United States FCC Manual Statement**

This equipment has been tested and found to comply with the limits for a Class B digital device pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try and correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and the receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

#### **European Union CE regulation compliance statement**

This product has been tested to comply with the Low Voltage Directive 2014/35/EU and the Electromagnetic Compatibility Directive 2014/30/EU. The product meets the requirements of RoHS 2 Directive 2011/65/EU.



This symbol indicates that your product must be disposed of properly according to local laws and regulations.



### **Notices**

#### Warranty

Freqport provides a limited warranty on all hardware products. To learn more, please visit www.freqport.com/terms-and-conditions. The limited warranty gives you specific legal rights. You may also have other rights which vary by state or country.

#### **Trademarks**

freqport and freqtube are trademarks or registered trademarks of freqport PTY, LTD.

Other company and product names mentioned herein are trademarks of their respective owners.

ASIO is a trademark and software of Steinberg Media Technologies GmbH.

#### **Patent**

freqport and freqtube products have patent pending, or afford patent protection. The associated technology and products are protected and owned by freqport PTY LTD.

#### Copyright

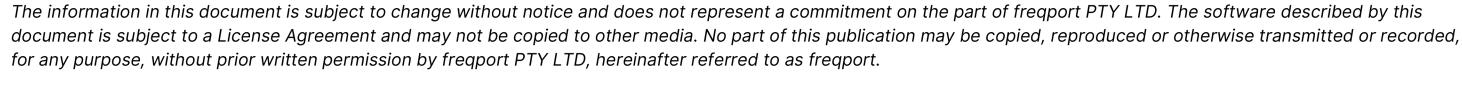
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#### **Technical Support**

freqport knowledge Base, online technical resource for configuring, operating, troubleshooting, freqport products. You can watch helpful support videos, search the Knowledge Base for answers, get updated technical information, submit support tickets and more.

Please visit: support.freqport.com





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# CONTACT US

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