

FT-1 Manual

Software Release v1.5.x



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.

top



Full colour high res display shows trackname and control assignments. White indicator is physical knob value, black indicator is automaton value. Filled colour knob means automation value is latched to the physical value.

Factory calibrated + matched dual 12AT7 tubes shielded. Glows when powered on.

Factory calibrated + matched dual E83CC/12AX7 tubes shielded. Glows when powered on.

8x assignable metal shaft control knobs

All metal enclosure with grill for optimal airflow allowing adequate cooling

rear



Power Switch

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

USB-C connector for audio and control

Software

Freqtube 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.

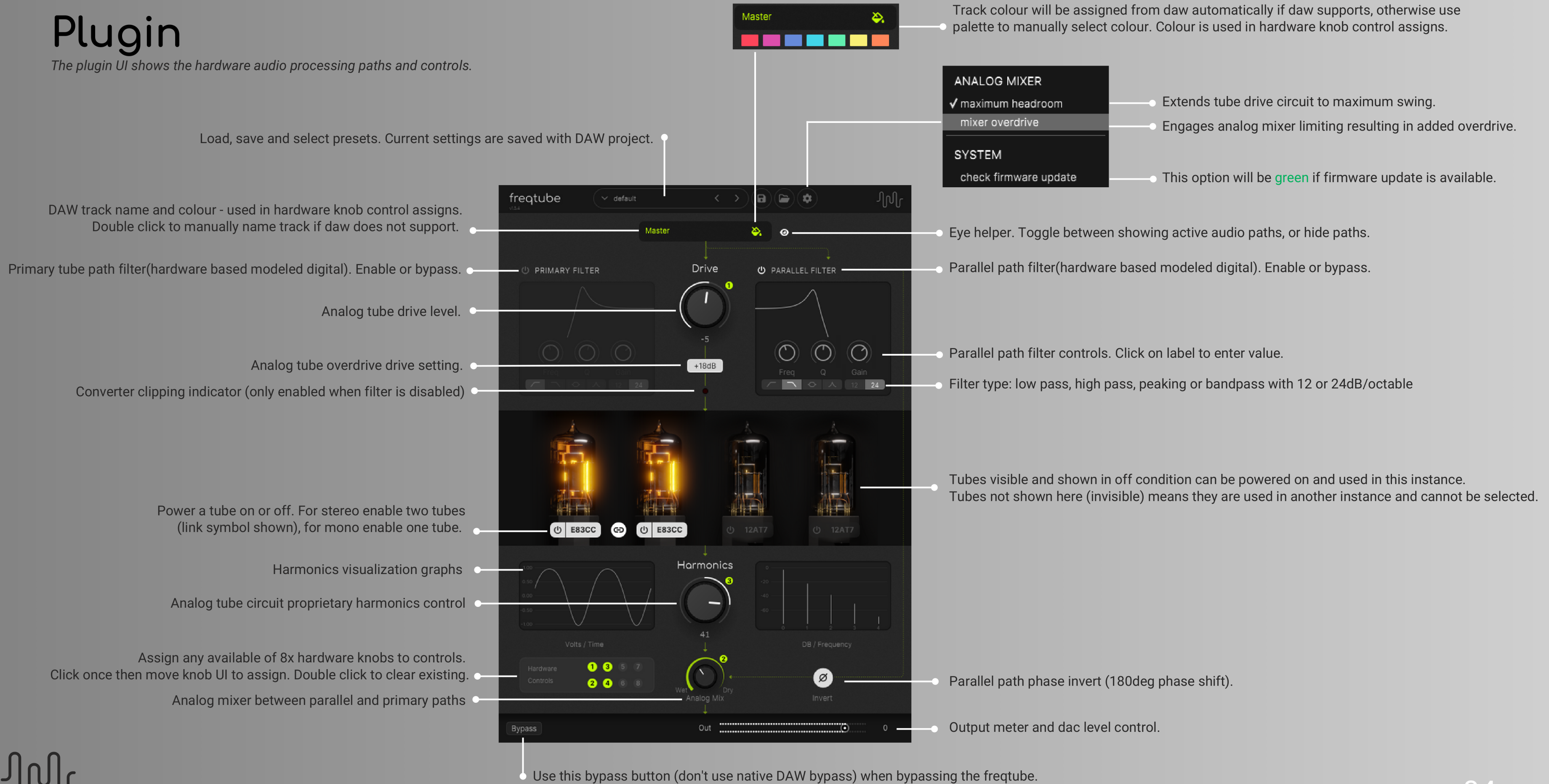
- Before using your DAW check articles on optimizing your DAW for freqtube here: support.freqport.com/portal/en/kb/freqport
- To use the plugin simply open your DAW, find freqtube from the plugin list then add to an audio track.
- The maximum number of instances of the plugin you can open is the number 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.



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.

Shows software and firmware versions and host processor mode

Status of connection to the hardware

Hardware to plugin mapping information per tube channel (x4)

Reinit and Play State settings are reserved for future use.

sample-rate / calculated latency used (1 lowest, 2 medium, 3 highest)

Buffer setting between FT-1 hardware and the hub. Usually set to 512. This setting is unrelated to your DAW buffer.

When checked the freqport system will minimize latency as much as possible. Only select this if system performance allows.

freqportHUB

SW v1.5.4 [HW v0.4.7] on Apple Silicon

96000kHz/2

Tube Model
E83CC

Status
OK

Track Name
Master

Tube Model
E83CC

Status
OK

Track Name
Master

Tube Model
12AT7

Status
OK

Track Name
PopVox

Tube Model
12AT7

Status
OK

Track Name
PopVox

Reinit

Use Play State

Lower Latency

Buffer Setting

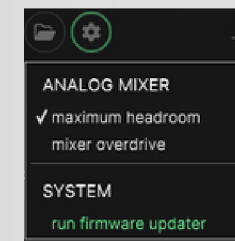
512

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)

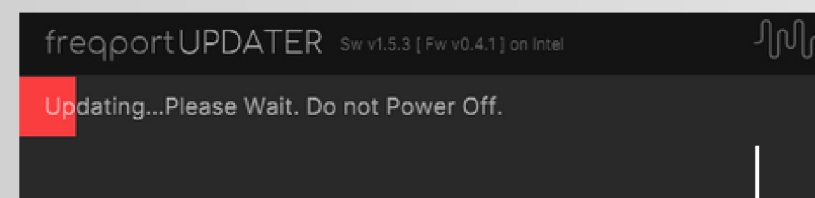


When an update is available the plugin will indicate by green highlights.

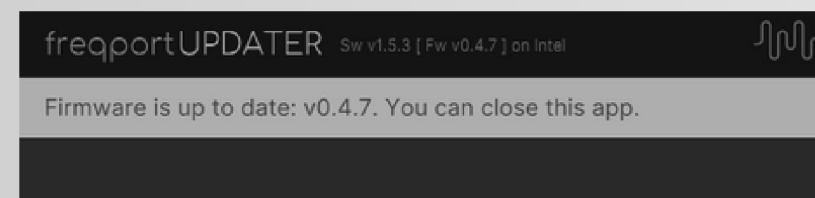


Click to start update

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 480Mbps.

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)

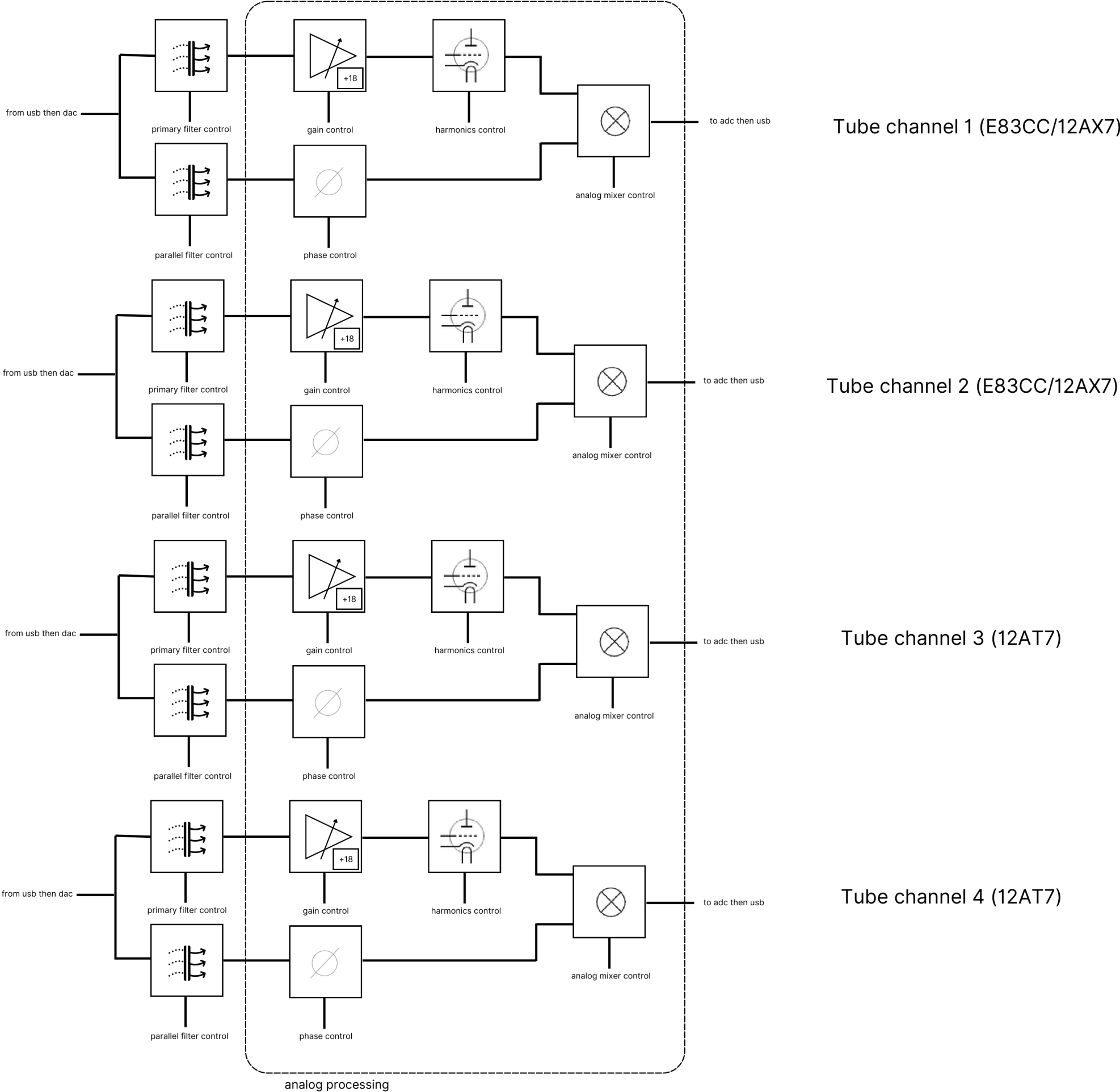
Weight

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

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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.

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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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support@freqport.com

sales@freqport.com

www.freqport.com

CONTACT US

