Softube

User Manual
Tube-Tech ME 1B

Softube User Manual

Disclaimer

Every effort has been made to ensure that the information in this manual is accurate. However, there are a chance that we have made mistakes, and we hope that you understand that we are only humans. Please let us know about the mistake, and we'll fix it in the mix (or in the next version of this manual).

Support

On the Softube website (www.softube.com) you will find answers to common questions (FAQ) and other topics that might interest you.

Support questions can be posted at http://www.softube.com, where we will help you as fast as we can!

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Contents

1 User Interface

SOFTUBE PLUG-INS ARE "what you see is what you get" products. You should be able to intuitively learn the products within minutes, so that you can work fast and efficient with them. There are a couple of things that remain the same for all of our plug-ins, such as the menu row. These will be explained in this chapter. For detailed information of a particular plug-in, please see its chapter.

Menu Row

In the bottom of the plug-in interface, you will see a thin black row with some buttons. We'll use the Dyna-mite plug-in as example, but the same goes for all plug-ins.

About Box Opens the "About" Box with version info.

Value Display Displays the knob value when the mouse is hovering over a control.

Enable Enable/Activate the plug-in. Set to OFF for bypass.

Setup Changes global options for all instances of that plug-in.
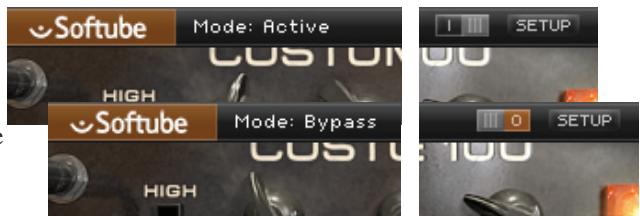
Enable

When the **Enable** switch is set to ON (I), the plug-in is active and will process audio. When set to OFF (0), it will be bypassed and not process any audio. It will take considerably less CPU when it is bypassed.

"About" Box   Value Display   Enable   Setup

Setup

In the Setup window you can change settings that will affect all instances of that particular plug-in. If you for example de-select the "Show Value Display" option in the Bass Amp Room plug-in the value display will be off for all Bass Amp Rooms on your system until you select that option again.
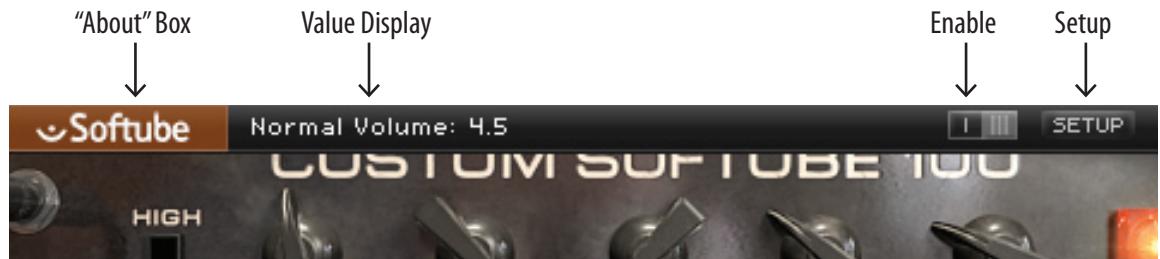
The different options vary between Windows and Mac, and also different formats and plug-ins. The most common options are:

SHOW VALUE DISPLAY: Enables the parameter and value display in the bottom row of the plug-in.

REVERSE MOUSE WHEEL DIRECTION: (Mac OS Only) Changes if the a knob is turned up or down when the mouse wheel is turned up or down. *(Mac OS Only)*

> You need to restart your host software (DAW) before the changes to fully take effect!

If you messed something up and manually need to set these options, you'll find them in text format in the following locations:

MAC OS: `~/Library/Application Support/ Softube`

WINDOWS: `username\Application Data\`

Key Commands

All numbers and labels in the plug-in are clickable. This allows you to easy select a setting by clicking on the wanted value. Hovering above a label will turn the mouse pointer into a pointing hand.

Mouse

Up/Down or Mouse Wheel	Change a parameter, such as a knob or a switch.

Keyboard

Fine Adjust	⌘ (Mac) or CTRL (Win), while changing the parameter value.
Reset to Default	ALT, while clicking on the knob or fader.

Plug-In Specific Key Commands

In many plug-ins, you can SHIFT-click on a knob or a switch to get some extra functionality

Metal Amp Room

SHIFT-click and drag a mic will move both mics simultaneously.

All Amp Rooms

SHIFT-click in the cabinet background will change cabinet (or amp) without any animations

2 Tube-Tech ME 1B Midrange Equalizer

Introduction

"Why do I need another eq?" Well… That is certainly not a new question. But for some reason the Pultec design of equalizers have managed to survive through the decades. The original Pultecs were built in the fifties and Tube-Tech has been making their Pultec clones since the mid eighties. Since the first Pultecs came out there have been tons of inventions that could have rendered this design useless: transistors, op-amps, circuit board designs, fully parametric designs, total recall, and the list goes on. But for some reason, the Pultec character is still desired in pro studios all over the world.

So do you need another eq? There are certainly stuff going on in the Tube-Tech ME 1B that is unique, but its biggest mojo is that it is so well-designed that almost whatever setting you use, it will sound good. And that is good product design, and probably the reason to why everybody needs a Pultec style equalizer.

About the ME 1B

Just like the PE 1C Pultec equalizer, the Tube-Tech ME 1B is a passive, tube-based equalizer. It was designed to accompany the PE 1C equalizer, and provide control over the frequencies that the PE 1C doesn't adjust. On its own it's a great tool to shape the mid- range of any audio material, and together with the PE 1C it becomes a versatile and full featured equalizer.

The focus of the PE 1C, "program equalizer", is the shelving filters and the mid-range boost. It cannot attenuate the mids, and you don't have the ability to get bell shaped filter curves in the lows and highs. The ME 1B solves all these drawbacks by offering the user three bands of equalization: low frequency boost (200–1000Hz), an almost full range sweepable cut (200–7000Hz) and a high frequency boost (1.5-5kHz).

Together they are strong.

User Interface

The user interface of the ME 1B is pretty straight forward. You have three different sections, the **Low Frequency Peak**, **Mid Frequency Dip** and the **High Frequency Peak**. The only confusing thing is that the mid section never boosts, but always attenuate the selected frequency. The other two sections, low and high frequency, boost the frequencies. But as soon as you start to use the ME 1B in conjunction with the PE 1C you'll find that these sections will complement the PE 1C.

In addition to this you get an **Output Gain** control. It isn't included in the original hardware, but is useful in a plug-in.

Low Frequency Section   *Mid Frequency Section*   *High Frequency Section*

Low Frequency Section

The low frequency section consists of a sweepable bell shaped peak filter and a gain knob.

Low Frequency	Sets the center frequency of the peak filter. The frequency settings are 200 Hz, 300 Hz, 500 Hz, 700 Hz and 1 kHz. All these frequencies overlap with settings in the **Mid Frequency**.

Low Peak	The right hand knob adjusts the amount of gain in the peak filter. Adjustable from 0 dB to about 10 dB.

Mid Frequency Section

The mid frequency section consists of a sweepable and attenuating bell shaped filter and a gain knob. With the gain set at 10 you get full attenuation (about -10 dB) from the mid filters.

Mid Frequency	Sets the center frequency of the dip filter. The frequency settings are 200, 300, 500, 700, 1000 Hz (overlaps the low frequency section), 1.5, 2, 3, 4, 5 kHz (overlaps the high frequency section) and finally 7 kHz.

Mid Dip	Sets the amount of attenuation at the selected frequency. Ranges from 0 dB to about -10 dB.

High Frequency Section

The high frequency section consists of a sweepable bell shaped peak filter and a gain knob.

High Frequency	Sets the center frequency of the peak filter. The frequency settings are 1.5, 2, 3, 4, and 5 kHz.

High Peak	Sets the amount of gain in the peak filter. Adjustable from 0 dB to about 8 dB. The exact gain depends on the frequency setting.

Output Section

Output Gain	The output gain wasn't included in the original ME 1B, but it is pretty useful to have a gain control, especially when you want to A/B between bypassed and engaged mode.

Ranges from -10 dB to +10 dB.

Filter Graphs

Here are some examples of the filter curves for different gain settings.

It is worth to note that the exact shape of these curves depend on three things:

1. What other knobs are set at (they depend on each other).

2. The frequency of the peak or dip filter.

3. The output impedance of the amplifier that is driving (inserted before) the real ME 1B.

In order to satisfy most setups, we chose to model the impedance so that you can get a little bit more gain or attenuation from the filters. That way you can always back it off a bit, if you need the plug-in to match exactly to your hardware setup.
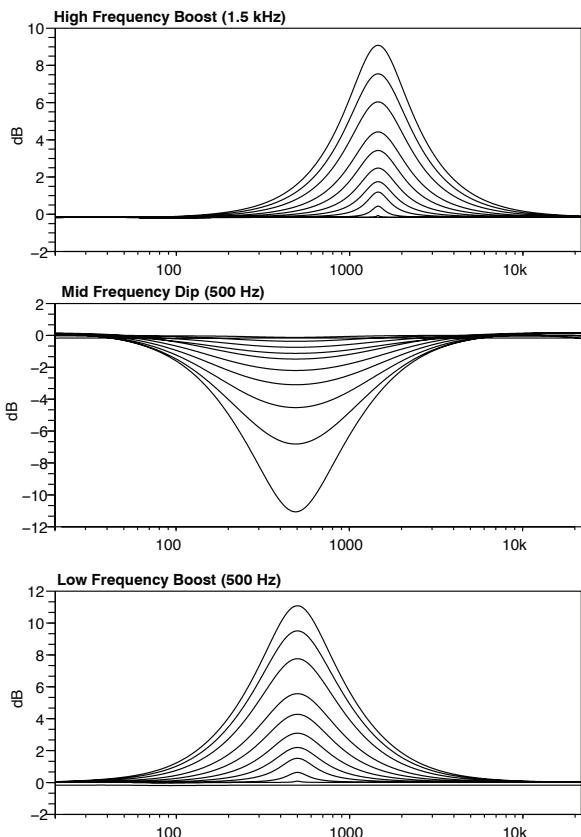
Buying Recommendations

The best way to get as close as possible to the original Pultec Midrange EQ sound in hardware is to get the ME 1B from Tube-Tech. They make great gear. Period. Every time we get to borrow Tube-Tech stuff we immediately fall in love and want to keep it.

Credits

Niklas Odelholm – modeling, **Arvid Rosén** – modeling. **Torsten Gatu** – framework programming. **Oscar Öberg** – framework programming. **Ulf Ekelöf** – 3D rendering. Original hardware was designed by **John G. Petersen** at Tube-Tech/Lydkraft ApS, Denmark.

High Frequency Boost (1.5 kHz)

Mid Frequency Dip (500 Hz)

Low Frequency Boost (500 Hz)