

# Alessandro Boschi



## Audio Engineering



## AlexB PoolTeQ PRO

Library for Nebula3 audio plugin

Library Creator: Alessandro Boschi

Release Date: 03.2011

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### 1. Introduction

Welcome and thank you for purchasing the *PoolTeQ PRO* library programs for Nebula.

Now you have one of the best professional high quality audio software. I have spent countless hours to develop these no-compromise programs to give you only the best analog sound and the feel as close as possible to the real deal. I hope that my programs will help you to make better and professional mixes enjoying yourself... Because: Sound First !

If you have any trouble with my software please do not hesitate to contact me: [sales@alessandroboschi.eu](mailto:sales@alessandroboschi.eu)

### 2. System Requirements

- Intel or AMD CPU based PC or MAC computer
- 620MB free disk space
- Nebula2 or Nebula3 with installed commercial license

For the best results and low CPU load it's recommended to use the Nebula3CoreII "reverb" instance.

### 3. End User License Agreement

The purchaser of this library is free to use these Nebula Preset Programs for mixing, remixing, mastering, premastering, editing, and whatever it takes to make their recordings as great as the presets can help them to be. Only the actual purchaser of the library may use this library. That means no sharing. The cost is minimal, and goes to help me to continue creating the next release(s) :

I'm not a big company but a single person, so every sale is important !

If you purchase this library, do not share it: recommend it ! With each release there will be free release presets.

This program-library is for registered Nebula Commercial users only!

Do Giancarlo and Team at Acustica Audio the same respect of purchasing a legitimate copy of Nebula. The cost is the best deal on the planet, and they work tirelessly on this project.

Users are not permitted to re-release, copy, upload, mirror links to this library, and it may not under any circumstances be repackaged or included in other release collections without express consent by it's owner: Alessandro Boschi.

The user is free to edit and save new presets for their own use, and not to distribute to others. If you make an alteration to a preset that you like and find it useful, please save it as a new preset for your own use.

Thank you



## 4. Installation

> Please install the last release of Nebula Plugin <

For PC Users:

Use the included installer to select your \nebulatemprepository folder to install the collection there. Or, you can simply copy all "n2p" files to your Nebula "Programs" folder and copy all "n2v" files to your "Vectors" folder.

For Mac Users:

Copy all "n2p" files to your Nebula "Programs" folder and copy all "n2v" files to your "Vectors" folder.

Clicking the Nebula preset you'll find the "PTQ" menu with the programs. You can navigate into the submenus "96kHz" and "44.1kHz" each with "full" (basic), "se" (special edition) and "nd" (no distortion) program groups.

- In the Nebula's MAST page it's better to set the RATE CNV at 3200ms or more to load correctly the library.

## 5. About the original hardware

Designed in the 1951 by Eugene Shenk, this program equalizer is still revered today for its performance and quality. Totally passive with push-pull tube stage amplifier. Two units have been sampled in mono and stereo mode, previously refurbished.

## 6. The sampling process

Carefully sampled with all natural imperfection and nuance by myself - I'm over 15 years experienced in electronics and audio engineering - in professional recording studio with high quality audio and digital cables, master grade top notch converters with audio levels perfectly matched and calibrated at 96kHz and 44.1kHz sample rate. Precisely programmed without normalizing or other destructive digital processing.

## 7. The programs

The basic programs have "full" harmonic and dynamic contents as the original hardware, the "se" programs are CPU friendly with less and different harmonic contents but with full dynamic as the basic version. Nobody with "golden ears" will say they sound exactly like the basic version, but they still sound great and are very usable. The special "nd" programs are clean without harmonic contents. In this way you can build your virtual EQ using the programs to obtain the desired amount of color and harmonics.

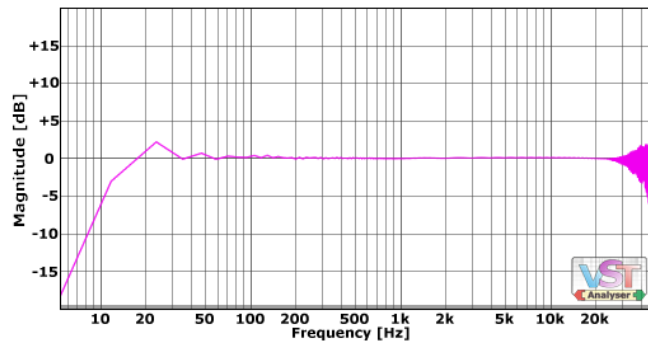


### 8. Audio characteristics

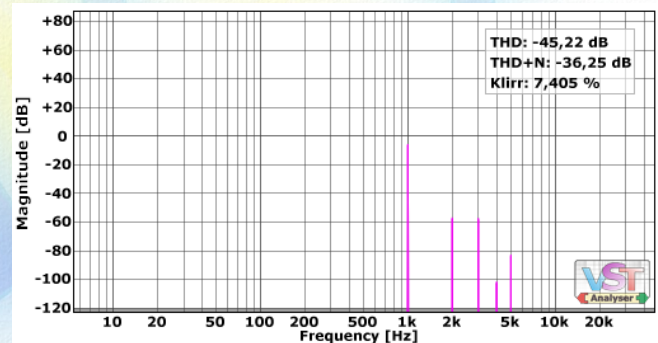
This equalizer is renowned for its unique ability to boost and cut the same frequencies simultaneously, thereby creating a resonant shelf. The wide range of equalization curves provided makes it possible to boost the very low or very high frequency notes without “muddying up” the middle register instruments, this made the unit useful for mixing and mastering use, making audio program sounds better just by passing through it even in “bypass” mode.

- . Low : 20, 30, 60, 100 cps shelf boost, 0 to 15dB
- . Low : 20, 30, 60, 100 cps shelf attenuate, 0 to 17dB
- . Mid : 3, 4, 5, 8, 10, 12, 16 kcs peak boost, 0 to 18dB with variable Q
- . High : 5, 10, 20 kcs shelf attenuate, 0 to 17dB
- . Combo Programs: boost + attenuate Low Band
- . ByPass line amp

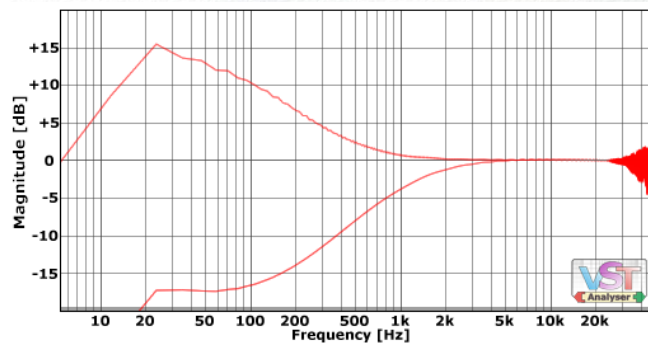
Frequency response at flat controls



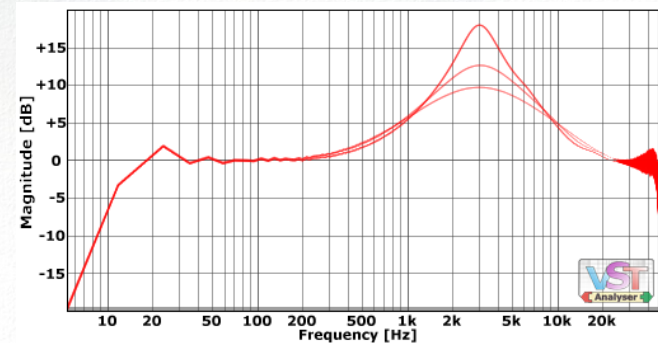
Harmonic contents at flat controls 1Khz -3dBfs test tone



Low Shelf Filter

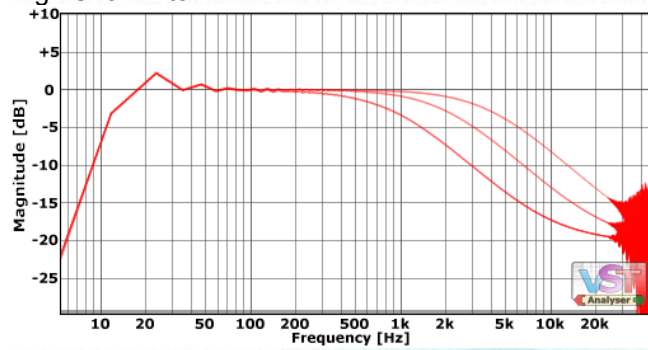


Mid Peak Filter

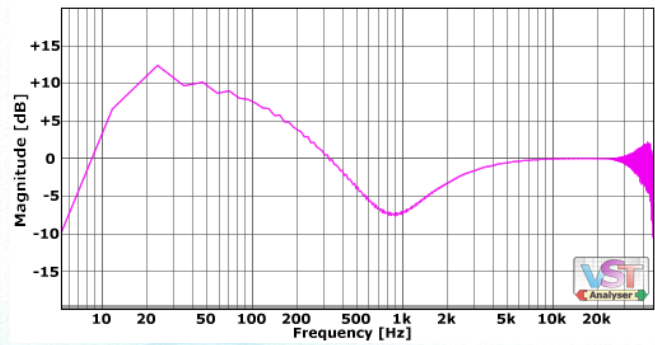




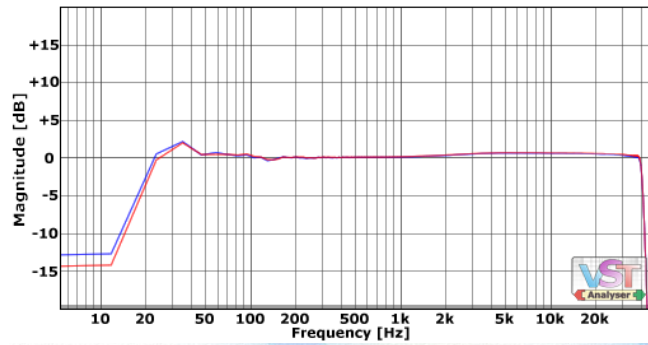
High Shelf Filter



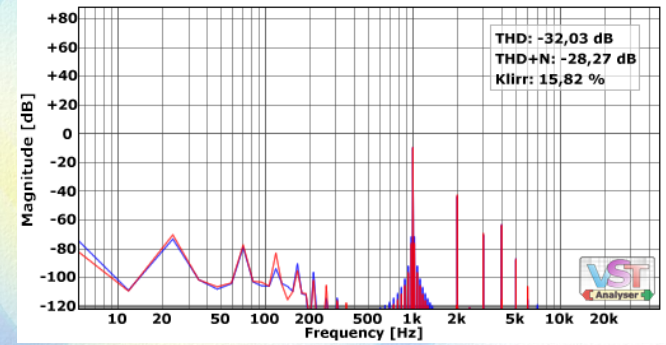
Combo Program



ByPass response at flat controls



Harmonic contents at flat controls 1Khz -3dBfs test tone





## 9. Preset list:

The PoolTeQ PRO library includes 23 different programs:

### FULL presets 5kernels

PoolTeQ LF : 20, 30, 60, 100 cps shelf boost, 0 to 15dB, attenuate, 0 to 17dB  
PoolTeQ MF : 3, 4, 5, 8, 10, 12, 16 kcs peak boost, 0 to 18dB with variable Q  
PoolTeQ HF : 5, 10, 20 kcs shelf attenuate, 0 to 17dB  
PoolTeQ 20c : Combo Program 20cps boost, 0 to 15dB, and attenuate, 0 to 17dB, simultaneously  
PoolTeQ 30c : Combo Program 30cps boost, 0 to 15dB, and attenuate, 0 to 17dB, simultaneously  
PoolTeQ 60c : Combo Program 60cps boost, 0 to 15dB, and attenuate, 0 to 17dB, simultaneously  
PoolTeQ 100c : Combo Program 100cps boost, 0 to 15dB, and attenuate, 0 to 17dB, simultaneously

### FULL presets 10kernels

PoolTeQ BP : line amp with eq in bypass mode

### SE presets 3kernels

PoolTeQ LF se : 20, 30, 60, 100 cps shelf boost, 0 to 15dB, attenuate, 0 to 17dB  
PoolTeQ MF se : 3, 4, 5, 8, 10, 12, 16 kcs peak boost, 0 to 18dB with variable Q  
PoolTeQ HF se : 5, 10, 20 kcs shelf attenuate, 0 to 17dB  
PoolTeQ 20c se : Combo Program 20cps boost, 0 to 15dB, and attenuate, 0 to 17dB, simultaneously  
PoolTeQ 30c se : Combo Program 30cps boost, 0 to 15dB, and attenuate, 0 to 17dB, simultaneously  
PoolTeQ 60c se : Combo Program 60cps boost, 0 to 15dB, and attenuate, 0 to 17dB, simultaneously  
PoolTeQ 100c se : Combo Program 100cps boost, 0 to 15dB, and attenuate, 0 to 17dB, simultaneously

### SE presets 5kernels

PoolTeQ BP se : line amp with eq in bypass mode

### ND presets 1kernels

PoolTeQ LF nd : 20, 30, 60, 100 cps shelf boost, 0 to 15dB, attenuate, 0 to 17dB  
PoolTeQ MF nd : 3, 4, 5, 8, 10, 12, 16 kcs peak boost, 0 to 18dB with variable Q  
PoolTeQ HF nd : 5, 10, 20 kcs shelf attenuate, 0 to 17dB  
PoolTeQ 20c nd : Combo Program 20cps boost, 0 to 15dB, and attenuate, 0 to 17dB, simultaneously  
PoolTeQ 30c nd : Combo Program 30cps boost, 0 to 15dB, and attenuate, 0 to 17dB, simultaneously  
PoolTeQ 60c nd : Combo Program 60cps boost, 0 to 15dB, and attenuate, 0 to 17dB, simultaneously  
PoolTeQ 100c nd : Combo Program 100cps boost, 0 to 15dB, and attenuate, 0 to 17dB, simultaneously

Use these programs for mix and mastering application when the two channel have to sound exactly the same.



## EXPANSION PACK

Two units have been sampled in **true stereo** mode so there are little differences between the two channels due to the natural tolerance by electronic components which it results in a more open and euphonic sound.

The PoolTeQ PRO Expansion Pack library includes 23 different programs:

### FULL presets 5kernels

PoolTeQ st LF : 20, 30, 60, 100 cps shelf boost, 0 to 15dB, attenuate, 0 to 17dB

PoolTeQ st MF : 3, 4, 5, 8, 10, 12, 16 kcs peak boost, 0 to 18dB with variable Q

PoolTeQ st HF : 5, 10, 20 kcs shelf attenuate, 0 to 17dB

PoolTeQ st 20c : Combo Program 20cps boost, 0 to 15dB, and attenuate, 0 to 17dB, simultaneously

PoolTeQ st 30c : Combo Program 30cps boost, 0 to 15dB, and attenuate, 0 to 17dB, simultaneously

PoolTeQ st 60c : Combo Program 60cps boost, 0 to 15dB, and attenuate, 0 to 17dB, simultaneously

PoolTeQ st 100c : Combo Program 100cps boost, 0 to 15dB, and attenuate, 0 to 17dB, simultaneously

### FULL presets 10kernels

PoolTeQ st BP : line amp with eq in bypass mode

### SE presets 3kernels

PoolTeQ st LF se : 20, 30, 60, 100 cps shelf boost, 0 to 15dB, attenuate, 0 to 17dB

PoolTeQ st MF se : 3, 4, 5, 8, 10, 12, 16 kcs peak boost, 0 to 18dB with variable Q

PoolTeQ st HF se : 5, 10, 20 kcs shelf attenuate, 0 to 17dB

PoolTeQ st 20c se : Combo Program 20cps boost, 0 to 15dB, and attenuate, 0 to 17dB, simultaneously

PoolTeQ st 30c se : Combo Program 30cps boost, 0 to 15dB, and attenuate, 0 to 17dB, simultaneously

PoolTeQ st 60c se : Combo Program 60cps boost, 0 to 15dB, and attenuate, 0 to 17dB, simultaneously

PoolTeQ st 100c se : Combo Program 100cps boost, 0 to 15dB, and attenuate, 0 to 17dB, simultaneously

### SE presets 5kernels

PoolTeQ st BP se : line amp with eq in bypass mode

### ND presets 1kernel

PoolTeQ st LF nd : 20, 30, 60, 100 cps shelf boost, 0 to 15dB, attenuate, 0 to 17dB

PoolTeQ st MF nd : 3, 4, 5, 8, 10, 12, 16 kcs peak boost, 0 to 18dB with variable Q

PoolTeQ st HF nd : 5, 10, 20 kcs shelf attenuate, 0 to 17dB

PoolTeQ st 20c nd : Combo Program 20cps boost, 0 to 15dB, and attenuate, 0 to 17dB, simultaneously

PoolTeQ st 30c nd : Combo Program 30cps boost, 0 to 15dB, and attenuate, 0 to 17dB, simultaneously

PoolTeQ st 60c nd : Combo Program 60cps boost, 0 to 15dB, and attenuate, 0 to 17dB, simultaneously

PoolTeQ st 100c nd : Combo Program 100cps boost, 0 to 15dB, and attenuate, 0 to 17dB, simultaneously

Use these programs for mix and mastering application when you want a more open, analog and euphonic sound.



### 10. Using the eQ

Take in mind that every preset (every EQ band) has his proper harmonic contents, so they are different into low, mid and high. Normally you should use the FULL program for the band that you want to boost and ND program for cut. In this way you'll have the closest sound to the original hardware but of course you can mix the programs at your personal taste.

The programs are unity gain. You can "drive" the equalizer using the main "Input control" (1) of Nebula instead to use the "Drive control" (2) which affects the harmonic contents in an unnatural way, but suitable if you look for an effect. Please leave untouched the LIQDT control (3).



**Note:** the value in dB that you read on the gain control isn't the real value you get, the programs react exactly like the hardware and the scale mimes the ones in the unit. You have the real hardware in your DAW !

Take care with gain staging since the programs are close to the hardware, then: 0dBVU = -18dBfs.

You can use this free vintage VU meter by PSP:  
[http://www.pspaudioware.com/plugins/tools\\_and\\_meters/psp\\_vintagemeter/](http://www.pspaudioware.com/plugins/tools_and_meters/psp_vintagemeter/)





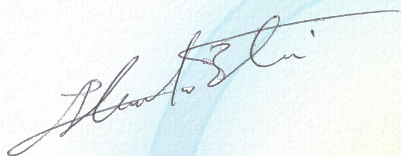


If your DAW is not so powerful you can render or freeze the tracks.

If you want rendering your tracks with Nebula's presets, I strong recommend the NRGUI PRO by Zabukowski from Nebula/Tools forum:

[http://www.acustica-audio.com/forum/index.php?f=23&t=166&rb\\_v=viewtopic](http://www.acustica-audio.com/forum/index.php?f=23&t=166&rb_v=viewtopic)

Thank you, all the best !



Alexandro Boschi