

# Pi & Phi MkIII

## User Guide



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## Greetings and Welcome!

Thank you for choosing MIA Laboratories. Please take the time to read through this user guide in order to get familiar with the use of the  $\pi$  &  $\phi$  MkIII.

## Overview

The basic elements that make up  $\pi$  &  $\phi$  are the actual numbers  $\pi$  and  $\phi$ , omnipresent throughout our surrounding living environment. Pi & Phi utilizes the harmony of these magic numbers in order to introduce an innovative way of spectral processing, creating an acoustic effect that can be described as “super-enhanced”, with a warm yet powerful “sparkle”.

Pi & Phi MkIII features 10 bands that cover the frequencies from 80 Hz up to 16KHz, along with a “Super Low” and a “Super High” band to complement the extremes of the spectrum.

This tool is ultimately capable of enriching a mix and each of its separate components with minimum phase distortion, enabling the user to precisely shape the spectral balance as dictated by the Golden Ratio.

Pi & Phi also stands out for its “demasking” capabilities, as it is exceptionally suitable for making an instrument or vocal track ‘cut-through’ and stand-out from the rest, in an otherwise cluttered mix.

Overall it is a very effective yet easy-to-use tool, as well as very ‘forgiving’, since the amount of distortion introduced is minimal compared to the increase in “loudness” perceived, even in extreme settings.

In this latest version, Pi & Phi utilizes the signal processing path of our 358 Enhancer for its Super-Low area, delivering the round and solid low-end that 358 Enhancer is well known for. The updated GUI also incorporates an Input/Output spectrum analyser, while the controls are placed in a way that corresponds to the frequency bands displayed on top of them.

Since there is no other plugin similar to  $\pi$  &  $\phi$ , we suggest that you treat it as something new, experiment, try and discover ...

### **General Guidelines:**

- $\pi$  &  $\varphi$  will add a small delay when inserted. This delay is not intended to get compensated, as it's an integral part of its processing.
- $\pi$  &  $\varphi$  bands work better as pairs (1-2, 3-4, 5-6, 7-8, 9-10).
- $\pi$  &  $\varphi$  works best when inserted at the end of the chain.

### **Revisions Log:**

- VST3 support
- Updated GUI
- 'Super Low' band utilising the 358 Enhancer signal processing
- Improved cpu performance
- Input/Output analyzer
- Input/Output meters
- Improved 'Super High' band
- Right - click to input values

**Controls:**



**INPUT**  
Attenuates the input.  
From 0 dB to -12 dB

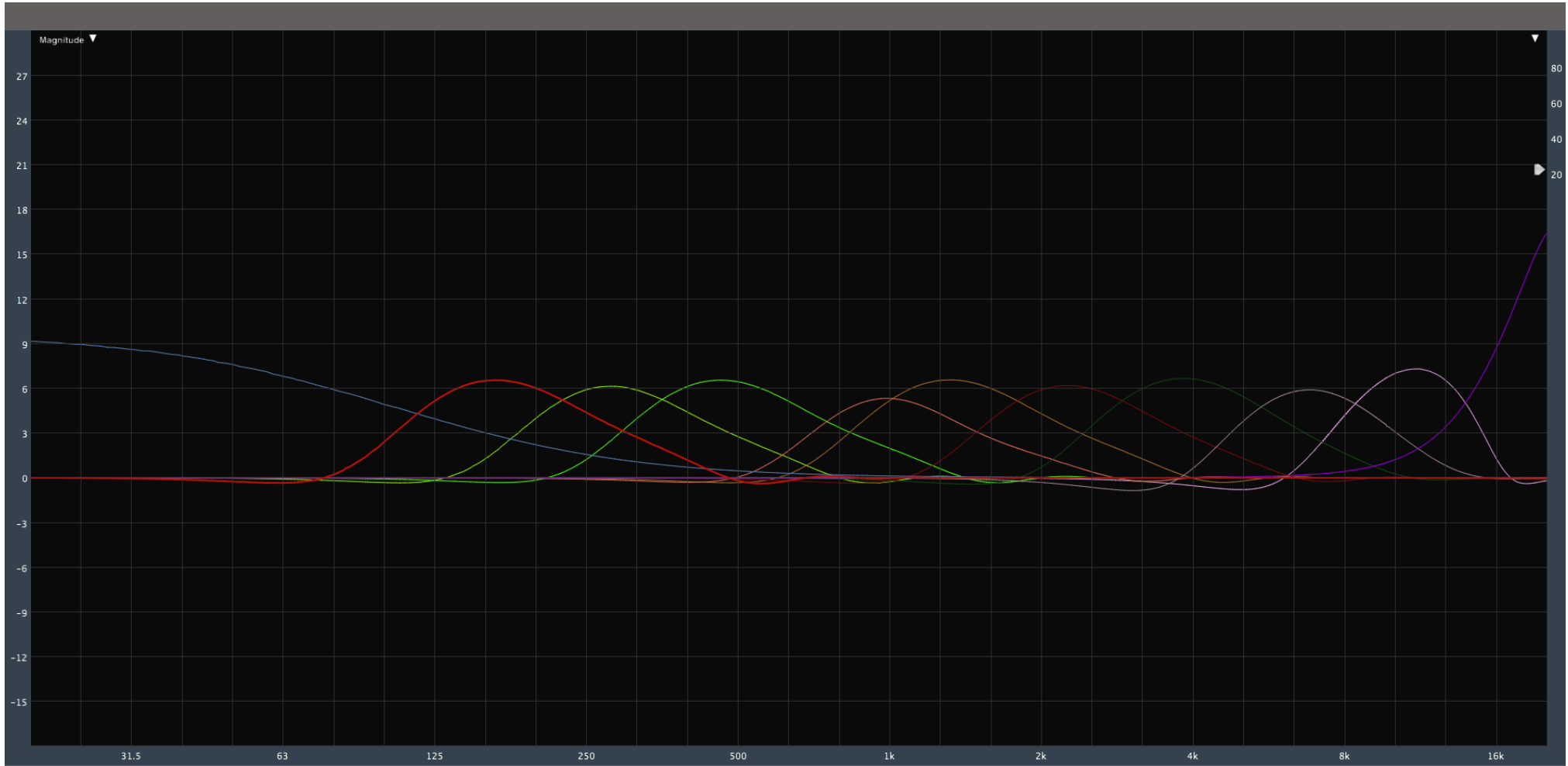
**SL**  
Super-Low frequencies  
process amount.  
From 0 to +100%

**Pi & Phi Bands 1-10**  
Control the amount of amplification  
for each band from 1 to 10.  
From 0 to +100 %

**SH**  
Super-High frequencies  
process amount.  
From 0 to +100%

**OUTPUT**  
Attenuates the Output.  
From 0 dB to -12 dB

### Frequency response for each band at 100%





**Installation:**

Installing  $\pi$  &  $\varphi$  MkIII is fairly easy, just download and run the appropriate installer for your operating system. The license for this plugin requires the use of iLok license manager software and an iLok account. The license can be deposited on a physical iLok (2<sup>nd</sup> generation or higher) or on iLok Cloud. For further information regarding the activation process, please refer to the activation guide provided. In case that you do not have the iLok License Manager, or you have an outdated version, you can download it for free here: [license-manager](#)

