

# MIA Delay $\Delta t$

## User Guide



MIA LABORATORIES

## **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 components and the use of the MIA Delay  $\Delta t$ .

## **Overview**

Mia Delay  $\Delta t$ , is a 'hardware'-style echo/delay unit designed for both production and live performance applications. It features intuitive, extensive control parameters with excellent sound quality and low CPU load.

It can be operated in Mono, Stereo and Ping-Pong (aka 'cross-feed echo') mode, providing paired, or independent controls for each channel.

## **Features**

- Mono, Stereo, Ping-Pong Operation
- 0.1ms Delay time resolution
- Phase inverse option, separately on Input and Feedback
- High Pass and Low Pass Filters on input
- Link and Lock control parameters option
- BPM Sync
- 40 MIA Presets

## **Installation**

Installing MIA Delay  $\Delta t$  is 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 In case that you do not have the iLok License Manager, or you have an outdated version, you can download it for free here: [Get iLok License Manager](#)

## MIA Delay $\Delta t$ Controls

### Operation



**MONO:** Left and Right input are summed and processed as one channel that feeds both the Left and Right delay units

**STEREO:** Each channel is processed on an individual delay unit and fed to the corresponding output channel

**PING-PONG:** The feedback gets crossed alternatively between left and right channels to achieve the classic 'cross-feed echo' effect.



**Input**

**LEVEL:** Sets the input level of the Delay

**MUTE:** Mutes the input signal of the delay. Note this is automatically enabled when feedback is set to 100%

allowing on-the-fly 'loop-type' operation.

**LINK:** Links the Left and Right input level controls

**INV L, INV R :** Inverts the phase of the Left or Right input signal, respectively



**Filter**

**HPF:** Applies a High Pass Filter to the signal feeding the Delay unit

**LPF:** Applies a Low Pass Filter to the signal feeding the Delay unit



### Delay Time

**TIME L, TIME R:** Set the delay time in milliseconds or note values for the Left or Right channel respectively.

**LINK:** Links the increase/decrease time controls for Left and Right channels

**LOCK:** “Locks” the relationship of the Delay time between Left and Right channel

**BPM SYNC:** Synchronizes the Delay time with the Tempo of your DAW.



### Feedback

**FEEDBACK L, FEEDBACK R:** Set the feedback percentage for the Left or Right channel respectively. Note that a setting of 100% will automatically enable the input ‘mute’ (see above)

**LINK:** Links the increase/decrease feedback controls for Left and Right channels

**LOCK:** “Locks” the relationship of the Feedback amount between Left and Right channels.

**INV L, INV R:** Inverts the phase of the corresponding feedback signal.



### Dry/Wet

Controls the mix between the Dry and the Processed (Delayed) signal

0% will feed the output with the Dry signal, while 100% will only output the processed audio



### Output

**LEVEL:** Sets the output level of the Delay

**LINK:** Links the Left and Right output level controls



### Bypass

Bypass the processing of MIA Delay  $\Delta t$ .

Thank you for using MIA Laboratories.

May the sound be with you!

