



## Electric Harmonix 1 ECHO Digital Delay User Manual

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**Electric Harmonix 1 ECHO Digital Delay**



Congratulations on your purchase of the #1 Echo! The #1 Echo is a result of Electro-Harmonix's long experience in designing world-class delay lines. It presents you with musical, accurate and warm delays that surpass the very best performance instruments on the market. Reading these instructions carefully will ensure that you will get the most out of your #1 Echo.

**WARNING:** Use only the US96DC-200BI adapter that the #1 Echo comes supplied with. Do not use any other AC adapters. Using other AC adapters, even those made by Electro-Harmonix, could cause harm to the unit, the adapter or you. The #1 Echo does not use batteries.

## THEORY OF OPERATION

The #1 Echo is an instrument that will echo any note or audio event that you play through it. You can control the time duration that will be applied between the played note and the echoed note. The echo will sound exactly the same as the original. The delay time range is from 10ms up to 2 seconds. Additionally you can choose the number of times that you want the echo repeated. This is known as feedback, which has a dedicated control. As you start to use the #1 Echo, invest some time to experiment with the controls and how they interact. You will discover very interesting possibilities including double tracking (where the notes are a little offset) all the way to long delays that allow you to continuously play new lines on top of previous events. The longer the duration, the more possibilities you have to add new notes to the original. As you add more repeats with a longer duration you can build up complex textures that can be very effective.

## CONTROLS

### Blend Knob

When rotated completely counter clockwise, only the original, dry signal may be heard. As you rotate clockwise, the delay signal is mixed with your dry original signal. The farther you rotate, the louder the delay signal becomes. When rotated to the far right position, only the delay signal is heard. Think of the Blend knob as your balance control between dry and wet signals.

### Delay Knob

This knob adjusts the delay time of your echo. When rotated to the full counter clockwise position, the echo will be set to the shortest delay time of 10 mS. When the knob is turned to the full clockwise position, the echo will be set to the longest delay time of 2 seconds.

### **Feedback knob**

When turned completely counter clockwise, feedback is off and you will hear only the first echo. As the Feedback knob is rotated clockwise, you will hear more repeats. At the full clockwise position the number of repeats will be so great the #1 Echo will sound like it is looping the delayed signal but it is not, the signal will eventually fade away. This is very effective for overdubbing parts upon repeated parts. Multipart phrases and sonic textures are created this way. At the very longest settings care must be taken as some degradation of tone will occur over an extended period of time.

### **Activity LED**

When the LED is lit; the #1 Echo is in effect mode. When the LED is off, the #1 Echo is in True Bypass mode. The Footswitch toggles between effect and bypass modes.

### **INPUT Jack**

This ¼" jack is the audio input to the #1 Echo. The input impedance presented at this jack is 2M.

### **OUTPUT Jack**

This ¼" jack is the audio output from the #1 Echo. When the #1 Echo is in Bypass mode, the OUTPUT jack is connected directly to the INPUT jack.

### **9V Power Jack**

Connect the AC Adapter's plug to the 9V Power Jack. The AC Adapter must be able to supply 9VDC at 200mA. The plug's inner ring must be negative, the outer ring positive.

## **WARRANTY INFORMATION**

Please register online at <http://www.ehx.com/product-registration> or complete and return the enclosed warranty card within 10 days of purchase. Electro-Harmonix will repair or replace, at its discretion, a product that fails to operate due to defects in materials or workmanship for a period of one year from date of purchase. This applies only to original purchasers who have bought their product from an authorized Electro-Harmonix retailer. Repaired or replaced units will then be warranted for the unexpired portion of the original warranty term.

If you should need to return your unit for service within the warranty period, please contact the appropriate office listed below. Customers outside the regions listed below, please contact EHX Customer Service for information on warranty repairs at [info@ehx.com](mailto:info@ehx.com) or +1-718-937-8300. USA and Canadian customers: please obtain a **Return Authorization Number (RA#)** from EHX Customer Service before returning your product. Include with your returned unit: a written description of the problem as well as your name, address, telephone number, e-mail address, and RA#; and a copy of your receipt clearly showing the purchase date.

### **United States & Canada**

EHX CUSTOMER SERVICE  
ELECTRO-HARMONIX  
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47-50 33rd Street  
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**Tel: 718-937-8300**  
**Email: [info@ehx.com](mailto:info@ehx.com)**

### **Europe**

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**UNITED KINGDOM**  
**Tel: +44 179 247 3258**  
**Email: [electroharmonixuk@virginmedia.com](mailto:electroharmonixuk@virginmedia.com)**

This warranty gives a purchaser specific legal rights. A purchaser may have even greater rights depending upon the laws of the jurisdiction within which the product was purchased. To hear demos on all EHX pedals visit us on the web at [www.ehx.com](http://www.ehx.com) Email us at [info@ehx.com](mailto:info@ehx.com)

## FCC COMPLIANCE

**Note:** 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 to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and 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.

Modifications not expressly approved by the manufacturer could void the user's authority to operate the equipment under FCC rules.



## Documents / Resources

[illegible]

## References

-  **Electro-Harmonix**