



# electro-harmonix FREQUENCY Analyzer Ring Modulator User Manual

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## electro-harmonix

### FREQUENCY ANALYZER RING MODULATOR

**Congratulations! You have just purchased one of the most sophisticated and unusual musical accessories ever designed.**

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#### **-OPERATING INSTRUCTIONS-**

Your unit comes with a 40volt/100ma tip positive, external power adapter. Use only the adapter supplied. Using the wrong adapter can cause serious bodily injury. Using the wrong adapter may also damage your unit and will void the warranty. Please note that this adapter is not interchangeable with other Electro-Harmonix adapters.

The Frequency Analyzer gives you two additional notes beside the one you play if you are playing chords. It's harder to achieve control when you play more than one note at a time because you're getting two notes for everyone you play. Basically, you play a note... you get that note plus a note above it and another one exactly as far below the main note as the other one is above it.

But... by turning your **BLEND** dial **CW** you can filter out your original note. As you turn the Blend control, the volume of the original note goes down or up, but the overall volume remains constant. In other words, you can set it so you get your original note plus two new ones... or two new notes with the original... or a mixture of both.

The **SHIFT** control gives you basic frequency. It has a range of four to five octaves. The **FINE** control permits fine-tuning of the **SHIFT** control and cover almost an octave with just a little twist.

On the front chassis panel is a filter which is a bass-treble control. With the switch in the bass position, the top note is filtered out giving you the original note plus one bottom note.

It is easier to get good results fast by using the Frequency Analyzer with any kind of amplified wind instrument. The more accustomed you are to playing single-note lines the more quickly you will adapt to using the accessory.

The Frequency Analyzer has to be re-adjusted for playing in different keys. There are many different ways it can be adjusted in any given key. This is not the sort of accessory you buy in the afternoon and use on a gig that same night unless you are a very skillful musician. The possibilities offered by the Frequency Analyzer are so numerous that you will still be discovering new applications after several months...even after several years.

All Electro-Harmonix accessories are compatible and modular. Any combination of units will give you an infinite variety of sounds limited only by your imagination.

## – 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  
c/o NEW SENSOR CORP.  
47-50 33RD STREET  
LONG ISLAND CITY, NY 11101  
Tel: 718-937-8300  
Email: [info@ehx.com](mailto:info@ehx.com)

**Europe**  
JOHN WILLIAMS  
ELECTRO-HARMONIX UK  
13 CWMDONKIN TERRACE  
SWANSEA SA2 0RQ  
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 –


This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation. If the device is not installed and used in accordance with the instructions, it may cause harmful interference to radio communications and void the user’s authority to guarantee the equipment.

**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



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FREQUENCY, Analyzer Ring Modulator

References

-  [Electro-Harmonix](#)