

Electro-Harmonix Intelligent Harmony Machine

Electro-Harmonix Intelligent Harmony Machine User Manual

HARMONIZER & PITCH SHIFTER PEDAL

1. Introduction

The Electro-Harmonix Intelligent Harmony Machine is a compact and powerful pitch-shifting pedal designed to generate harmonies and pitch shifts. It offers two primary modes: Intelligent Harmony and Polyphonic Override, allowing for a wide range of musical applications from diatonic harmonies to polyphonic pitch shifting. This manual provides detailed instructions for setup, operation, and understanding the pedal's various features.

Instantly create matching harmonies to what you play



The Intelligent Harmony Machine instantly creates matching harmonies to your playing.

Compact harmony generating, pitch-shifting powerhouse



A compact pedal offering powerful harmony and pitch-shifting capabilities.

Impeccable tracking and superb musical tone



Experience precise tracking and a high-quality musical tone.

2. Setup and Connections

To begin using your Intelligent Harmony Machine, follow these connection steps:

1. Connect your instrument to the **INPUT** jack on the right side of the pedal.
2. Connect the **OUTPUT** jack on the left side to your amplifier or the next pedal in your signal chain.
3. For a stereo setup or to send your dry signal separately, connect the **DRY OUT** jack to another amplifier or input.
4. Power the pedal using either a 9V battery or an optional 9V DC power adapter connected to the **9V** input.



Proper connection of input and output cables for optimal performance.



The 9V power input for connecting a DC adapter.

3. Controls and Features

Familiarize yourself with the pedal's controls:

- **MIX Knob:** Adjusts the balance between your dry (unaffected) signal and the shifted/harmonized signal.
- **VOL Knob:** Controls the overall output volume of the pedal.
- **KEY Knob:** Selects the musical key (C, D, E, F, G, A, B) for the Intelligent Harmony Mode.
- **#/MIN/MAJ Switch:** This three-position switch allows you to select between sharp (#), minor (MIN), or major (MAJ) intervals, influencing the harmony generated in Intelligent Harmony Mode.
- **INTERVAL Selector (1-11):** This rotary switch selects the specific harmony or pitch shift interval. Refer to the pedal's graphic for detailed interval descriptions for each setting.
- **MOMENT Button:** When pressed, this button enables momentary operation of the footswitch, meaning the effect is active only while the footswitch is held down. It also allows for sweep time adjustments in secondary mode.
- **POLY OVERRIDE Button:** Engages the Polyphonic Override Mode, allowing the pedal to act as a standard polyphonic pitch shifter, applying shifts to chords as well as single notes.
- **DRY OUT Jack:** Provides an unaffected output of your instrument's signal, useful for parallel processing or stereo setups.



Overview of the Intelligent Harmony Machine's controls.

4. Operating Modes

The Intelligent Harmony Machine offers versatile operation through its distinct modes:

Intelligent Harmony Mode

In this mode, the pedal analyzes your playing and generates diatonic harmonies based on the selected key and interval. This ensures musically correct harmonies that fit within the chosen scale.



Intelligent Harmony Mode generates diatonic harmonies

Key Selector and #/- Switches provide access to all 12 keys

Intelligent Harmony Mode generates diatonic harmonies based on your selected key.

Polyphonic Override Mode

When the POLY OVERRIDE button is engaged, the pedal functions as a polyphonic pitch shifter. This means it can apply pitch shifts to entire chords without glitching, similar to other polyphonic pitch pedals. The INTERVAL selector determines the specific pitch shift.

Moment Mode

The MOMENT button allows for temporary activation of the effect. When held down, the effect is active; releasing it bypasses the effect. This mode also enables sweep time control for smooth transitions between dry and effect signals.

Momentary Mode

- ✔ Effect is only active when the footswitch is depressed
- ✔ Choose from instant shifts or set the time it takes the signal to sweep up and down



Momentary Mode allows for dynamic, on-demand effect activation and sweep control.

5. Sound Examples and Demonstrations

The following video demonstrates various sounds and applications of the Intelligent Harmony Machine. Refer to the timestamps for specific examples:

Official product video demonstrating the Electro-Harmonix Intelligent Harmony Machine's capabilities.

- **0:31 - 0:39:** Introduction to the Intelligent Harmony Machine.
- **1:08 - 1:14:** Baritone sound example using Polyphonic Override Mode.
- **1:58 - 2:06:** Octave down blend with dirty and clean signals.
- **3:09 - 3:14:** Introduction to Intelligent Harmony Mode examples.
- **3:49 - 3:57:** Demonstrating secondary mode for chord inversions (presets 9-11).
- **4:35 - 4:37:** Polyphonic Override with a 5th up, 50% mix.
- **5:21 - 5:23:** Capo Effect using Polyphonic Override 3rd up, 100% mix.
- **6:08 - 6:10:** Bamboo Flute Effect.
- **6:27 - 6:29:** Intelligent Harmony Machine with EBow.
- **6:57 - 6:59:** Western Swing style.

- **7:35 - 7:37:** Minor Triad Inversion three.
- **8:30 - 8:37:** Stereo Doubler effect.
- **8:55 - 9:07:** Two tracks of Intelligent Harmony Machine for layered sounds.

6. Specifications

Item Weight	1.31 pounds (592 Grams)
Product Dimensions	4.5 x 2.75 x 2.1 inches (11.43 x 6.98 x 5.33 cm)
Power Source	Battery Powered, DC Power (9 Volts)
Material Type	Metal, Plastic
Signal Format	Analog
Connector Type	1/4" instrument cable
Hardware Interface	1/4-inch Audio

7. Troubleshooting

If you encounter issues with your Intelligent Harmony Machine, consider the following:

- **No Sound:** Ensure all cables are securely connected. Check your instrument, amplifier, and power supply. Verify the MIX knob is not set entirely to dry.
- **Weak or Distorted Signal:** Check your instrument's output and amplifier's input levels. Ensure the power supply is providing the correct voltage (9V).
- **Unexpected Harmony/Pitch:** Double-check the KEY knob setting and the #/MIN/MAJ switch position. In Intelligent Harmony Mode, the pedal relies on accurate key selection. Ensure the INTERVAL selector is set to your desired effect.
- **Polyphonic Glitches:** While the Polyphonic Override Mode is designed for chords, extreme playing or very complex voicings might occasionally produce artifacts. Adjust your playing style or settings.
- **Moment Mode Not Working:** Ensure the MOMENT button is pressed to activate momentary operation.

8. Warranty and Support

Electro-Harmonix products are designed for reliability and performance. For warranty information, service, or technical support, please refer to the official Electro-Harmonix website or contact their customer service directly. Keep your purchase receipt as proof of purchase for warranty claims.

For additional resources and product information, visit the [Electro-Harmonix Store on Amazon](#).