



Zen Musical
Harmonizer
ZMH-1

Manual

Global

Common elements to all effects are Sliders, Knobs, and the Bypass Button. Each individual tone gets its own controls. Sliders control volume. Knobs control stereo panning. The Bypass Button switches between dry and wet signal.

Chooser

Simple: Pick one of the four effects to use. Use one effect at a time. Playable, Pseudo-Smart, Shifter, or Octave.

Playable

Play/Sing in one note. Play the chord type you want that one note to sound like. Play Major, Major 6, Major 7, Minor, Minor 6, and Minor 7 chords.

Pseudo-Smart

Dumb harmonizer? No! It's Pseudo-Smart! Enter the key of choice. Pseudo-Smart does the rest. Based on the frequency of the incoming sound, the correct chords are created. Smart!

Shifter

A two-note harmonizer. One note is fixed, the other is attached to a pitch shifter and controlled by the Pitch Shifter Amount slider. Choose one of the 16 available intervals. Shift away!

Octave

One incoming note becomes five octaves of that note. Capable of octave-down effects like guitar to bass and octave-up sounds similar to certain Hendrix sounds.

Using all octaves is create. a wall of sound.

Hardware Compatibility

ZMH-1 requires the use of an audio interface(i.e., headphones and a microphone, guitar-to-iOS adapter, or USB audio interface and a Camera-Connection-Kit. Consult a retailer.). Without an audio interface attached to the iDevice with ZMH-1 open, feedback will occur. This is normal.

Background Audio

ZMH-1 will continue to process audio even while in the background with another app

visible. Be mindful that this can consume the device's battery. Remember to exit ZMH-1 when not in use by double-clicking the home button and swiping the app upward. Audio will stop when the lock screen is entered and the screen turns off.

Go to Settings → General → Auto-Lock and choose Never for uninterrupted audio.

Playing Well With Others

In order to make sure ZMH-1 fits into your production process on iOS Audiobus and InterApp-Audio are built-in. Audiobus is a third-party app that lets you daisy chain effects and other audio apps together.

InterApp-Audio is Apple's routing technology and is built into apps like Garageband. InterApp-Audio makes it possible to use ZMH-1 as a "plug-in" in Garageband.

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