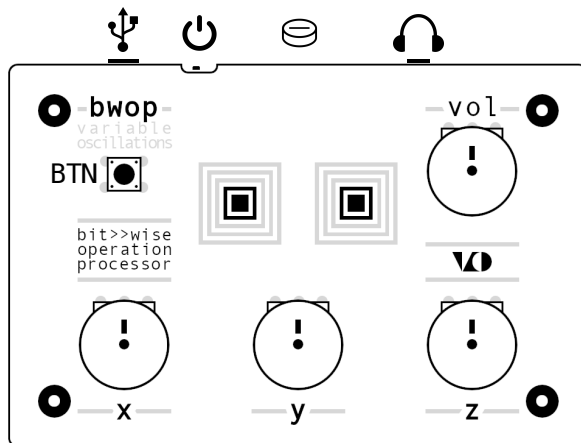


V a r i a b l e
O s c i l l a t i o n s

B W O P bit>>wise operation processor

v e r s i o n 1 . 0



X: Equation Tone

Y: Stereo Separation


Z: Equation Rate


VOL: Output Volume Level


BTN: Equation Select Button

 USB Power Connector

 USB / Battery Switch

 CR2032 Battery Slot

 Stereo Output Jack

 Tip: left channel
Ring: right channel
Sleeve: ground

BWOP uses a stereo TRS jack to output the two channels of audio so it is best to use a TRS connector.

The outputs of BWOP are DC coupled and may sound different on some recording devices that expect AC coupled audio.

BWOP is a stereophonic bytebeat generator. Stereophonic meaning there are two channels of audio used and bytebeats are a type of rhythmic sound pattern made from short math equations. BWOP outputs a pair of these sound patterns, one on the left and the other on the right channel of the audio connector. Because of this it is recommended to listen either with headphones or a pair of speakers so both channels can be heard.

There are six different equations which can be cycled through with the equation select button. The LEDs will blink to indicate which is selected. The first three equations (indicated by the left LED blinking) are more rhythmic and the remaining three (indicated by the right LED blinking) are more droning. BWOP will always start out on the first equation when powered on. The X, Y, and Z controls change how the equations sound.

The X control changes variables that determine rhythmic and tonal qualities. The Y control causes the left and right outputs to differentiate from one another. When turned down fully both outputs will sound the same. The Z control determines the rate at which the equation is computed. Turning it up will typically increase the speed and pitch but can cause changes in the rhythmic and tonal qualities as well.

If powering BWOP with a CR2032 coin cell battery be sure to insert the battery into the battery holder with the positive (+) terminal facing the back panel. When removing an old battery from BWOP it is best to use a non-conductive tool (something made from wood or plastic) to push the battery out through the small slot in the back.