



**WALRUS
AUDIO**

BELLWETHER

Tap Div:

Here, you can command at what meter the Bellwether produces your repeats relative to the Tap Tempo or Time parameter. Each zone around the parameter is marked with the lowest setting being quarter notes. At 10:00, you'll get eighth notes, 2:00 dotted eighth notes, and 4:00 triplets; all relative to the Time parameter or Tap Tempo.

Time:

This parameter controls how soon and at what tempo your repeats are generated. The shortest time possible will be when the control is at the minimum setting. Turn the dial clockwise for a longer delay time. Hear 1000ms of delay time when the control is at maximum.

Repeats:

Dial the parameter to the lowest setting here to hear one dominate repeat. As you turn the control clockwise, the number of repeats generated will increase.

Tone:

This control is a high-cut control that is only applied to your repeats and not your dry instrument signal. At its lowest setting, you will hear a full tonal range from high to low. This is optimal for playing a more rhythmic delay style. Turn the dial clockwise to start to hear the high-cut applied. Limiting the highs passing through allows you to achieve classic analog/bucket brigade sounds, making your repeats sound darker and more saturated. This type of setting works well for getting a smoother, dark, saturated trail from what you're playing.

Level:

The Level parameter controls the level of your repeats. At its lowest setting, you'll hear no repeats. Turn the parameter clockwise to bring up the volume of your repeats. With the control dimed, your repeat volume will be higher than your dry instrument signal.

Time/Repeats Expression Toggle:

This toggle enables expression pedal manipulation to either the Time parameter or the Repeat parameter. Toggle left to manipulate the time with the lowest Time setting at toe-up and the highest setting desired at toe-down. Toggle right to manipulate the repeats parameter with the lowest setting desired at toe-down and the highest setting at toe-up.

Mod On/Off:

This toggle engages or bypasses the Analog Chorus Engine. This feature is applied only to your repeats, modulating only the wet signal.

Depth:

When the Mod toggle in On, the Depth control regulates how deep the modulation sways below the note your instrument is playing. For minimal depth, use at the lowest setting possible. For a deeper modulation, turn the dial clockwise.

Rate:

When the Mod toggle is on, the Rate control regulates how fast LFO wave moves. The fastest rate happens when the control is at its lowest setting. Turn clockwise to stretch the rate out and hear more spaced out and slower waves.

Bypass Footswitch:

This turns the effect on and off.

Tap Switch:

Tap this switch to set the time of your repeats

In:

Insert the cable running from your instrument or preceding effect here.

Out 1 & 2:

Run a cable from Out 1 or 2 (or both) to the next effect or your amplifier.

FX Loop:

Use a TRS Y-cable to add an effect to the repeats/wet signal.

Exp:

Insert your TRS expression pedal here to manipulate either Time or Repeats.

9V:

Insert power here. Center negative, 9V DC, 100mA minimum

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Find us on Facebook: [walrusaudio](https://www.facebook.com/walrusaudio)
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*The use of an isolated power supply is recommended for powering all Walrus Audio Pedals. Daisy chain power supplies are not recommended.

BELLWETHER ANALOG DELAY INSTRUCTION MANUAL

The Bellwether is a bucket brigade delay pedal with tap tempo. Offering analog circuitry and up to 1000ms of lush delays, the Bellwether ushers in a rich soundscape of long and short trails. It can achieve the warm saturated sounds found in delays like the Maxon AD999 and the coveted Boss DM-2. Inversely, the repeats can also be brightened up with the tone control for more pronounced rhythmic delays. The Analog Chorus Engine allows you to manipulate the depth and rate of the chorus effect applied to your trails; creating a deep soundscape of ambient modulation. Set the time and repeat controls low to get that classic western slap back sound or drag them out to achieve shoegaze perfection. Take it all the way to 10 to achieve a self-oscillating delay. The expression jack receives a TRS input to manipulate time or repeats; selectable by a toggle on the front of the pedal. There are two heavy duty footswitches: one for effect on/off and the other controlling the tap tempo.

Four tap division options are offered to control the rhythm of your repeats: quarter notes, eighth notes, dotted eighth notes, and triplets. Expression control options are offered to swing either the time or repeat controls back-and-forth. Manipulate the time control to get that Johnny Greenwood oscillation or use it on the fly to manipulate the repeat control; adding long tails to your diamonds.

