



**BUTTON BOX**

TURNTABLE CONTROLLER V4

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# OVERVIEW

The Button Box V4 will allow any midi capable turntable to have all the functionality of the Vestax Controller One, and have even more added features. The unit is powered by USB (connect it to a computer or any USB power supply such as a mobile phone charger etc), and has a midi DIN socket for use with a midi cable.

As well as being able to control a turntable the unit can be used as a standalone midi controller through USB midi and a midi cable. This means you are also able to use it with your favorite DAW or external hardware. For example you could have this hooked up to Traktor/Serato/Ableton *and* to your turntable at the same time, to control the turntable, trigger cue points and control any of Ableton's (or your favorite DAW) instruments simultaneously.

# CONNECTIONS

## **USB port**

The USB port has two functions; to power the unit, and to send USB midi communication. The box can be connected to a computer and used as a standalone midi controller with any midi mappable software ie:

Traktor/Serato, Ableton, Logic, Protools and so on.

## **Midi DIN out**

Connect a midi cable to a turntable or any other midi capable hardware.

# BASIC FUNCTIONS

## **1-8.Keys**

Buttons 1-8 are the keys that change the pitch of the platter to correspond to notes in a scale. By default the keys are set to C Major at middle C (C4).

## **9.Modifier Button**

The modifier button is used with buttons 1-8 to toggle between CCmode (buttons 1-6), fine tune up and down (buttons 7-8). The modifier pressed at the same time as the rotary encoder push button resets fine tune to zero. Pressing the modifier button and turning the rotary encoder increases or decreases the step size of the fine tune.

## **10.Semitone UP**

Moves all of the buttons (1-8) up by a semitone.

## **11.Semitone DOWN**

Moves all of the buttons (1-8) down by a semitone.

**NB:** Semitone shift (up or down) by default will act as a way to choose what 'key' you are in.

## **12.Octave UP**

Moves all of the buttons (1-8) up by an octave.

### **13.Octave DOWN**

Moves all of the buttons (1-8) down by an octave.

### **14.Rotary Encoder**

The rotary encoder primarily is used to change scales. Here is a list of scales we can choose from:

Major Scale (default scale)

Minor Scale

Melodic Scale

Dorian Scale

Phrygian Scale

Lydian Scale

Mixolydian Scale

Locrian Scale

#### **14 (a).Rotary Encoder**

The rotary encoder also has a push button which will reverse the pitch keys from ascending to descending when pressed, like so;

Normal = **CDEFGABC** : Reverse = **CBAGFEDC**.

#### **14 (b).Rotary Encoder**

Pressing the encoder button and the modifier key (button 9) will reset the fine tune option to zero.

## **14 (c).Rotary Encoder**

Pressing the modifier button and turning the rotary encoder will increase or decrease the fine tune steps.

## **15.OLED Display**

The OLED display shows the following settings:

1. CCmode
2. Reverse Keys
- 3 .Midi Channel Number
4. Semitone Up and Down
5. Fine Tune
6. Scale
7. The Current Note Being Played and What Octave You Are In

# ADVANCED FUNCTIONS

The Button Box has some features which advance on what the Vestax Controller One can do. In order to access them you have to press a multiple of 2 buttons at the same time.

Below you will find a list of button combinations that allow you to choose different functions and settings.

## Reset keys to C3

Press **button 10** (semitone UP) & **button 11** (semitone DOWN) at the same time to return to default C3.

## Reset Octave

Press **button 12** (octave UP) & **button 13** (octave DOWN) at the same time to return the octave to zero.

## Reverse Pitch Buttons

Simply press the rotary encoder button and the display will show an 'N' symbol for normal, or an 'R' symbol for reverse.



## CCmode

The Button Box V4 has a function called '**CCmode**'. This allows you to toggle individual pitch buttons (1-6) to send CC messages to hardware synths/modules/drum machines/software. For instance you can map these buttons to a DAW/DVS like; Ableton/Traktor/Serato to be able to trigger samples and effects which gives you a powerful option when performing live or doing routines.

To access CCmode we press the modifier button and press a pitch button (1-6) – this will then be shown on the display by a '**C**' symbol next to the CCmode section at the top of the display. If we want the button to go back to outputting a note value we simply repeat the process by pressing the modifier button and the same pitch button. You will now see on the display that the '**C**' symbol next to CCmode has returned to a dash symbol like this, -

## **Midi Channels**

We have an option to change the midi channel from 1-16. This will allow you to control external hardware and software. To change the midi channel we use the modifier button and the octave up and down buttons to select which channel we desire.

## **Fine Tune**

Fine tune allows you to tune a sample currently being played on the turntable. This is powerful if you are playing with traditional instrumentalists and the sample being played on the turntable is either sharp or flat. You can also use this to tune hardware/software synths or use it as a pitch sweep effect. By changing the fine tune step times you can have slow or fast pitch sweep effects on a synth pad for instance.