

# WBL 4014 MULTITRIGGER

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## INTRODUCTION

The WBL 4014 MULTITRIGGER is a Rack Extension for Reason. It is a “player” device that can receive, respond to, and send note control signals to downstream instruments or other player devices.

The 4014’s main behavior is to play polyphonic patterns of up to 64 notes. A pattern can be looped or play just once. Internally, a pattern is played on a sequencer. There is one “main sequencer” which can play synchronized to the transport. Additionally there are many “triggered sequencers” which can be individually started by note messages.

## THE FRONT PANEL



## MIDI PROCESSOR



(The word MIDI here is merely suggestive of traditional hardware synthesizers.)

The MIDI PROCESSOR module processes incoming note messages from a keyboard or a Reason note lane. The 4014 consists of one main sequencer, and many trigger sequencers.

- OFF

Input notes are ignored. The IN LED will flash red to indicate that incoming notes are going no place. If the Reason Transport is started, the main sequencer will play the current pattern in a loop.

- THRU

Notes are passed directly through to the output. This mode is useful for stacking several 4014's and having more than 12 notes in your scale. As with OFF mode, the main sequencer is synchronized to the transport.

- TRIGGER

In this mode, incoming notes start the pattern, transposed relative to Middle C. This is fully polyphonic; many copies of the pattern can be playing at once. In TRIGGER mode, the two buttons LOOP and HOLD are used:

- HOLD The sequencer will play to the end, even if the triggering key is released.
- LOOP The sequencer will loop if the triggering key is held.

The Midi Processor also includes 2 LEDs.

- IN Flashes for incoming note messages. Flashes Red if the note is ignored in OFF mode. Flashes Green if the note is passed through or triggers a sequencer.
- OUT Flashes for outgoing note messages. Flashes Green normally, and Red if a note of that pitch was already playing and needed to be stolen.

#### VELOCITY MODIFIER



The Velocity Modifier module adds expression to the outgoing notes. An LFO modifies the outgoing notes' velocities. Each row has its own unsynchronized LFO. This can be especially exciting on instruments which process note velocity in novel ways.

#### TIME BASE



The Time Base module consists of several controls.

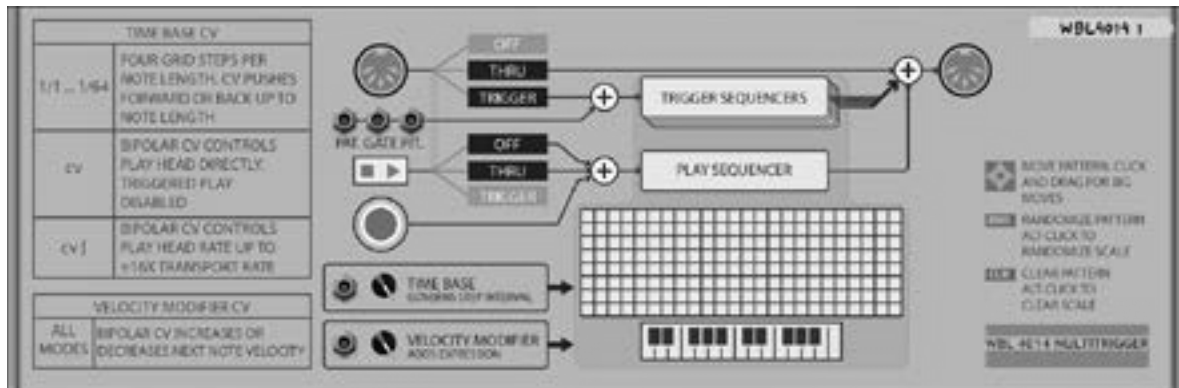
- Beat The basic speed of the sequencer. One "beat" is four grid steps. For example, if Beat is set to 1/4, then each grid step is 1/16.
- CV If Beat is set to CV, then the Time Base CV Input on the device rear determines the step directly. A value of -1 on the CV input sets the play head to the first step. A value of +1 sets the play head to the last step. If Beat is set to CV there are no triggered sequences.
- CVf If Beat is set to CVf, then the Time Base CV Input controls the speed of playback. This rate can be negative. This effects the main sequencer and triggered sequencers.
- DeSync™ This only effects Triggered Sequencers. In the center position, it has no effect. If set to the right, triggered sequencers will "Sync" to the transport (if it is running), by speeding up or slowing down until they are on-beat. Further to the right causes quicker sync. If set to the left, triggered sequencers will "Swim" apart from each other. Further to the left is a more and more extreme effect.
- Slop The Slop knob adds imperfection to the timing. The effect is not cumulative; overall the sequencer will stay synchronized.

#### PATTERN



Selects one of 8 patterns for both editing and playback. The main sequencer will switch patterns immediately. Triggered sequencers will continue to play whatever pattern they started with.

## THE REAR PANEL



## CV MODIFIERS



**Time Base.** If the Beat is set to a note length, the Time Base CV Input nudges the sequencer forward or back by up to 1 step. If the Beat is set to CV, the Time Base CV directly controls the play head position of the main sequencer. If the Beat is set to CV $\sqrt{}$ , the Time Base CV controls the rate of playback, where -1 will play back in reverse 16 steps per transport quarter beat, and +1 will play back forward at 16 steps per quarter beat.

**Velocity Modifier.** This will decrease or increase the playback velocity of notes.

## CV CONTROL



These inputs will trigger sequencers, regardless of the MIDI

PROCESSOR mode. If the PITCH is connected, sequencers will play at that pitch; if not they play at Middle C. If the PATTERN is connected, the unipolar range 0.0 to 1.0 represents the pattern range A through H; if disconnected triggered sequencers will play the currently selected PATTERN.

```
Appendix I
controls
20  patternSelect
27  mode
22  lfoRate
23  variance
26  timebaseSlop
28  graticleBrightness
29  graticleColorL
30  graticleColorR
25  timebaseDesync
21  velShape
24  rate
```