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.

• SCALE
Input notes are used in the scale assigned to rows of the grid
pattern. These notes are unioned with any selected by mouse in the
display grid. This behaves somewhat like a programmable arpi
• 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 ctopies 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.
•• CV∫ If Beat is set to CV∫, 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.

GRATICULE

The green phosphor storage display tube shows dynamic information.
The fixed parts of the display such as the note grid and keyboard
scale are etched into the tube's glass. These three knobs can
adjust the color and brightness of the two side-lighting coloured
LEDs to illuminate the graticule.

TOTAL NOTES

This eight digit numeric LED display shows the total number of
notes sent, up to ninety nine million nine hundred ninety nine
thousand nine hundred ninety nine. On the one hundred millionth
note played in a session the TOTAL NOTES display will incorrectly
report zero notes. When the device is in sleep mode, it displays
the pattern "0   0". When the device is bypassed by Reason, it
displays the pattern "088 880".

THE REAR PANEL
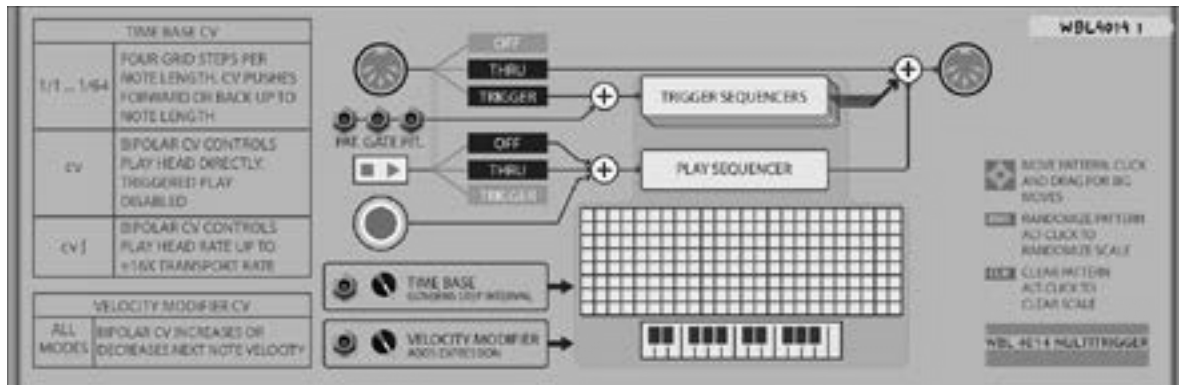
CV MODIFIERS

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∫, 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.

THE DISPLAY AND GRID
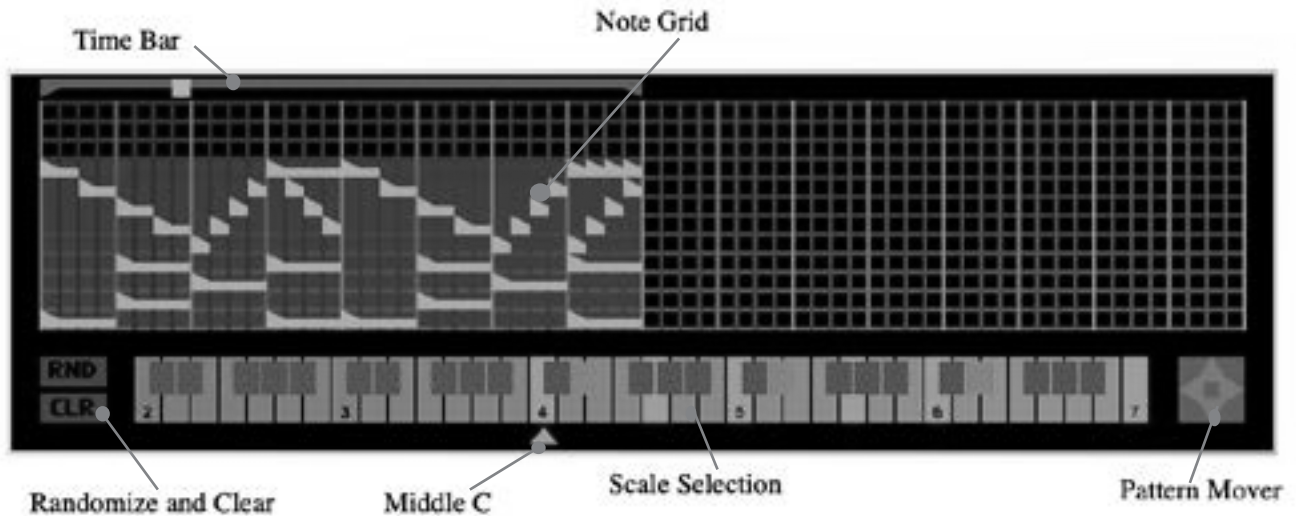
This is where the magic happens: It's where you put the music.

Time Bar. Click and drag to set the duration. Shift-click to repeat notes already there. Alt-click for an audible scrub preview.

Note Grid. Click and drag right to add or remove notes. Shift-click to draw notes without constraint.

RND button. Randomize the grid. Alt-click to randomize the scale.
CLR button. Clear the grid. Alt-click to clear the scale.

Middle C. Move where keyboard middle C is drawn, to access the far ends of the keyboard.

Scale Selection. Click on keys to add or remove them from the scale.

Pattern Mover. Click on the pointers to move the pattern one step at a time. Click and drag to move it further.

Appendix I
controls
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