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Operation Manual





Introduction



The **Alias8 CV Controller** is a static control voltage generator. This Reason Rack Extension features 16 knobs, 9 faders, 8 toggle buttons, and 8 momentary buttons, each with dedicated CV output sockets that allow you to directly modulate other devices populated in your rack. For complex systems that require dynamic real-time changes, the Alias8 CV controller provides a central performance hub controlling the synthesizers, samplers, and effects modules.

The Alias8 Rack Extension is modeled after the Livid Instruments Alias8 control surface, and is designed to integrate seamlessly when the controller is connected to a workstation. We have gone to great lengths to simplify the user experience in an intelligent manner that integrates control when used in conjunction with the Livid Instruments hardware.

Front Panel



#	Control	Function
1	Knob A1 - A8	Knob Control Bank that generates a value of 0 to 127
2	Knob B1 - B8	Knob Control Bank that generates a value of 0 to 127
3	Fader F1 - F8	Fader Bank that generates both bipolar and unipolar cv outs
4	Toggle Button T1 - T8	Push On-Push Off Style of button control
5	Momentary Button M1 - M8	Momentary Button switches off when released
6	Master Fader	Long Fader control with multiple CV outputs
7	Function Edit Knob	Selector for editing output properties of knobs, buttons, etc.
8	CV Modulation Source	External CV modulation source options
9	Scale	Output range modifier for knobs, buttons, faders.
10	Text Labels	Editable text fields that mirror the labels on the rear

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Rear Panel Connections



#	Connection	Function
1	A1-A8 CV outputs	Knob A1-A8 unipolar cv outputs
2	B1-B8 CV outputs	Knob B1-B8 unipolar cv outputs
3	F1-F8 unipolar CV outputs	Fader F1-F8 unipolar cv outputs
4	F1-F8 bipolar CV outputs	Fader F1-F8 bipolar cv outputs
5	T1-T8 CV outputs	Toggle Button T1-T8 cv outputs
6	M1-M8 CV outputs	Momentary Button M1-M8 cv outputs
7	MF Main Outs	Master Fader Main Output and duplicate unipolar cv out
8	MF inverted Out	Master Fader inverted unipolar cv output
9	MF bipolar Out	Master Fader bipolar cv output
10	Modulation CV Inputs	CV inputs for external modulation inputs
11	Text Labels	Editable text fields that mirror the labels on the front

General Overview



The Alias8 CV Controller was born from the idea of having a rack extension device that visually matches a hardware control surface and at the same time seamlessly integrates remote mapping. This becomes a physical to virtual bridge between the user and software environment. While the Livid Instruments hardware is customizable, limitations have been set with with the rack extension to optimize compatibility in Reason.

Each of the knobs, faders, and buttons generates a control voltage available at a corresponding jack on the rear panel of the Alias8 rack extension. This can be routed to any CV input socket on other devices in the rack such as pitch control on a synthesizer or feedback level on a delay module. The control voltage output values can also be scaled, inverted, or even modified by external CV sources such as a LFO or pattern sequencer.

For those in need of specific CV control sources, this device is self-explanatory, and easy to use. This manual provides more details on the operation and programmability of the Alias8 CV Controller rack extension, including examples on how to get started. CHANNELS



Main Controls



The main control section is the center panel with silver background. The controls are divided into eight channels, and each column of controls is assigned a number starting with channel 1 for the left most column and increasing to the right up to channel 8. The right most column is the Master fader channel.

KNOBS

There are sixteen knob controls, and these are arranged by row and channel. For each channel, the top knob is designated as Knob A and the lower is designated as Knob B. Knob references are also abbreviated as A1 or B3, etc. This refers to the corresponding row and channel column. The knobs increase in value from zero when turned completely counterclockwise to the maximum value when turned fully clockwise.

FADERS

There are eight 30mm faders, one for each channel, and one 60mm master fader control. The 30mm faders are abbreviated as F1, F2... And the master fader is abbreviated as MF. The fader have the lowest value at the bottom position and increase as the control slides upward.



6

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BUTTONS

The sixteen button controls are arranged into two rows of eight. The top row is a set of toggle switches and the bottom row is a set of momentary action buttons. The toggle switches have a latching action with a "push on/push off" functionality. These are abbreviated as T1, T2... The bottom row of buttons are momentary switches which are only active as long as the button is pressed. When the button is released, the button automatically switches off. Momentary buttons are abbreviated as M1, M2...

TEXT FIELDS

Each Control has an editable text field that is automatically mirrored on the rear and vice versa. This allows you to quickly note the purpose each control and routing.

FUNCTION EDIT "SELECT"

The CV outputs for each knob, fader, and button can be modified using the Scale or External CV sources. The rotary control above the master fader is a selector control for accessing the CV output functions of CV Outputs. Turning the Function Edit Selector,

scrolls through the 41 different controls, and the current selection is displayed on the two segment alphanumeric LED display. Once the control is selected, you can adjust the scale and CV Mod Source parameters.

CV MOD - External CV Source selector

By default this setting is "OFF", and turning this control clockwise will scroll through the settings CV 1 through CV 8. When an External CV Source is set, the selected control is then modulated by the incoming CV signal. The combination of the external CV and main control is multiplication process. If the external CV is disconnected, the value is a zero, and when multiplied by a control value, the result is still zero.



SCALE

The Scale control has a range of -1.00 to 1.00, and by default the scale setting is "1.00" for all controls, meaning that the control value matches with the CV output. Decreasing the scale value reduces the CV output value proportionally with the control value. Setting a negative Scale value inverts the CV output. The arithmetic is a multiplication of the control value and the scale setting, so a scale setting of zero will disable the output values.

Transfer Function Calculations

The output value is determined by the following formula:

Output CV = Control Value x Scale x CV Mod

If no external CV Modulation Source is selected, then CV Mod is set to 1.00:

Output CV = Control Value x Scale

CV Connections

	Knob A1	Knob A2	Knob A3	Knob A4	Knob A5	Knob A6	Knob A7	Knob A8	alias e	CV In
A1-A	0	Ô	0	0	Ø	0	Ø	٥	TO MODILY THE CV OUT- PUT FUNCTIONS, FIRST CHOOSE THE CORRESPON- DING KNOB, FADER OR BUTTON BY ADJUSTING	10
81-88	Knob B1	Knob B2	Knob B3	Knob B4	Knob BS	Knob B6	Knob B7	Knob B8	THE SELECT (FUNCTION EDIT) CONTROL. ADJUST THE SELECTED CV OUTPUT RANGE BY CHANGING THE SCALE PARAMETER. OR MODEY	2 (0)
POLAR	Fader 1	Fader 2	Fader 3	Fader 4	Fader 5	Fader 6	Fader 7	Fader 8	THE OUTPUT WITH AN EX- TERNAL SOURCE ROUTED BY THE CV MOD CONTROL	¢،
- F8 - UNI	0	Ô	Ø	Ó	Ø	0	Ô	Ô	0	40
IPOLAR - F1-	0	Ô	Ô	0	Ô	0	Ô	Ô	- Main Outs	5 ©
8	Toggle 1	Toggle 2	Toggle 3	Toggle 4	Toggle S	Toggle 6	Toggle 7	Toggle 8		۰©
I-IT	Ó	Ô	Ô	Ô	Ô	Ô	Ô	Ô	© Inv Out	7 ©
M1-M8	© Morn. 1	() Morn. 2	Q Morn. 3	© Morn. 4	© Morn. S	O Morn. 6	© Morn. 7	O Marn. 8	Bi Out © M.Fader	۰Q

CV OUTPUTS

The Alias8 CV controller operation is simple. Each Knob, Fader, and Button generates a CV signal that mirrors the current value of the control. For example, a knob with a setting of 64 will generate a corresponding cv value of 64, unless the control is scaled or modulated.

FADER BIPOLAR CV OUTPUTS

In addition to the unipolar outputs, the Faders and Master Fader slider controls have bipolar output sockets that generate signals in the range of -127 to 127. Note that the tool tips do not reflect bipolar output values, and a Fader setting of 63 is the zero crossing point of the bipolar cv output. In other words, a fader with the value of 63 corresponds to 0 CV value, a setting above 63 generates a positive value, and a setting below 63 generates a negative CV output value.

BUTTON CV OUTPUTS

Both the Toggle and Momentary Buttons only have two states, they can be either ON or OFF, and so buttons generate only two CV values: zero and 127. The Toggle Buttons will maintain the maximum value until the button is switched off with a second click. The momentary buttons will return to a zero value automatically when the button is released.



MASTER FADER CV OUTS

The Master Fader generates four simultaneous control voltages. The MAIN CV outs are unipolar values that corresponding to the setting of the 60mm Master Fader control. Additionally, there is a dedicated Inverted Out and Bipolar Out.

CV IN

Eight CV Input sockets allow you to incorporate signals from external sources to modify the values of the output sockets. For example, connect a LFO signal and route it to a knob using the Function Edit parameters, and the knob output CV will act as a scale control of the LFO signal. Every knob, button, and fader can be mapped to any of the eight input sockets, so a single CV source can be distributed through all 41 controls.

Control Voltage (CV) Values

Control Voltages or CVs in Reason can be represented in two different measurement systems. The CV value is actually a floating point number that ranges between -1.0 and 1.0, and this is the typical standard that is applied to the internal processes of the Rack Extension and all software computations.

Because Reason is music software, based on hardware conventions, CV values can also be based on the MIDI standard of value measurement that has a range of 0 to 127, or -127 to 0 to 127. In order to maintain some coherence with given standards, this documentation as well as the rack extension uses the MIDI measurement standard and represents settings as integer values from -127 to Zero to 127.

CV Control Examples

For those who are new to Reason, but familiar with other DAW applications, there is a significant difference between typical "Plug-Ins" and Rack Extensions. Unlike popular plug-in formats, Reason Rack Extensions have CV modulation connects which allow one plug-in to control another plug-in. While you can still create a chain of effects like most plug-in formats, Rack Extensions and the native Reason devices can be interconnected. For example the LFO of one device can control the filter cutoff of another device. Essentially Reason devices are less like other DAW plug-in formats and more like an object-oriented workstation or modular synthesizer.

CV ROUTING FUNDAMENTALS

For those who have yet to explore the world of control voltage routing in Reason, the following section will cover some of the basic principles that will help you better understand the usefulness of the Alias8 CV Controller and tap into the creative possibilities of cross modulation.

There are two types of connection sockets on the back of Reason devices. The larger connectors, or *jacks,* carry audio signals, while the smaller jacks are for control voltage signals. Typically, the user interface denotes whether the jack acts as an output or input. Outputs are sources of control voltage signals, while inputs receive CV signals.



Thor Polysonic Synthesizer rear panel showing the various input and output sockets. The smaller jacks on the left are CV connection points.

Routings are point-to-point connections with a CV output routed to a CV input. These connections are made by clicking on a socket and dragging the virtual cable to another socket. Reason will not let you make an "abnormal" connection, so you cannot connect an input to another input, nor can you connect an output to another output. Also, you may not interconnect audio and CV sockets. When a proper connection is available, you will see the socket change color and you can release the mouse to complete the routing.

TRIGGERING DRUMS

This tutorial is a basic CV routing example between the Alias8 and a ReDrum Drum Computer that allows you to trigger the drum samples using the momentary buttons. The Alias8 button is the CV source and the Redrum Gate input is the CV target, and once this connection is established, the Alias8 then becomes an alternate trigger source input.

- 1. In an empty song session, create an Alias8 CV Controller and a ReDrum Drum Computer.
- 2. Click on the Kong Patch Browser, and load the patch "House Kit 03.drp" from the Factory Sound Bank / Redrum Drum Kits directory.
- 3. Hit TAB to view the rear of the rack.
- 4. Connect the Alias8 Momentary M4 CV out to the ReDrum Channel 4 Gate In socket.
- 5. Hit TAB to return to the front rack panel.
- 6. On the Alias8, Press the Momentary 4 (M4) Button. This will trigger the Redrum Channel.
- 7. Now, Turn the Alias8 Select knob, until the LED panel indicates M4. This makes the function editor parameters active for the Momentary 4 button.
- 8. Adjust the Scale value to 0.55, and again Press the Momentary 4 (M4) Button. You will hear the drum triggered, but at a much lower loudness.

You can take this further by connecting the other Momentary Button CV outputs to the unused Redrum channels.



The Alias8 Momentary Buttons can be used as simple trigger controls for ReDrum and Kong as well as other devices.

http://peff.com/alias8/examples/Triggering_Drums.reason.zip

FILTER AND PITCH CONTROL

The full range of a CV signal is -127 to 127 (-1.0 to 1.0), however many parameters only use half the range of 0 to 127 (0.0 to 1.0). Signals that span the full range are *Bipolar*, meaning that the values go from the negative range up to the positive range. Signals that use half the range are *Unipolar* with values in only in either the positive or negative range. The Alias8 Faders have both Unipolar and Bipolar outputs which may be used simultaneously, and the results can vary on a number of conditions that this tutorial illustrates.

- 1. In an empty song session, create an Alias8 CV Controller and a DrOctoREX Loop Player.
- 2. Click on the Dr.OctoREX Patch Browser, and load the patch "Music Loops | Rhodes 90-125 bpm.drex" from the Factory Sound Bank / Dr Octo Rex Patches /Music Loops directory.
- 3. Hit TAB to view the rear of the rack.
- 4. Connect the Alias8 Fader F1 CV out to the Dr.OctoREX Pitch Wheel CV Input. This is the unipolar fader cv output.
- 5. Double Click on the Fader 1 Text field and change the label to "Pitch"
- 6. Hit TAB to return to the front rack panel.
- 7. On the Dr.OctoREX press the RUN button to start playing the loop.
- 8. Adjust the Fader 1 level to hear the loop pitch change. The unipolar CV signal gradually increases the pitch from normal.
- 9. Now Set the the Fader 1 level to 63.

10. Hit TAB to view the rear of the rack.

- 11.On the Alias8, click on the Fader F1 CV out socket, and drag the cable down to the Fader F1 Bipolar CV out socket. As you do this, you will hear the loop pitch change and return to normal.
- 12. Hit TAB to return to the front rack panel.
- 13.Adjust the Fader F1 Level, gradually moving it down, and then back up. What you now hear is the negative values of the bipolar signal dropping the loop pitch below normal. Fader setting of 63 is zero, and settings below this threshold produce negative CV signals, while settings above this threshold generate positive CV signals. These are reflected in the Dr.OctoREX as changes to the pitch.
- 14. Hit TAB to access the rear panel again.
- 15.Now connect the Fader 2 CV output to the Dr.OctoREX Filter Cutoff input socket.
- 16.Double Click on the Fader 2 text field, and change the label to "Filter"
- 17. Hit TAB to return to the front rack panel.

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FILTER AND PITCH CONTROL (continued)

- 18. Try adjusting the "Filter" fader. You will hear no change and this is explained below.
- 19. On the Dr.OctoREX, click on the triangle icon on the lower left to expand the programmer section.
- 20. Adjust the Dr.OctoREX Filter Cutoff value to zero.
- 21. Now adjust the Alias8 "Filter" fader F2, and you will hear the filter open and close as the unipolar signal from the fader changes.
- 22. Save the session. This example will be expanded in the next tutorial.

Control Voltage input signals are arithmetically summed or "added" to the value to the panel setting parameters, however the sum of the two values cannot go beyond the max level of 127 or below zero. At step 18, the Filter Cutoff setting is already 127, and when the incoming Fader CV is added to 127, there's no room for increase. At step 20, the Filter Cutoff setting is dropped to zero, and incoming Fader CV signals then control the full filter range.

It is important to be mindful of the target parameter settings as this will affect the behavior of incoming CV signals from the Alias8.



Faders have both Bipolar and Unipolar CV outputs which can be used simultaneously. The scaling control can also attenuate as well as invert both signals.

http://peff.com/alias8/examples/Filter_Pitch_Control.reason.zip

COMBINATOR CV ROUTING

While there are ample CV input sockets on the various Reason devices, not every parameter can be directly controlled with a control voltage cable, but the Combinator can be used to direct CV signals from the Alias8 to virtually all front panel controls. The following tutorial expands from the previous section to demonstrate how to control the Dr.OctoREX loop switches from an Alias8 control.

- 1. Begin with the session created in the previous tutorial on "Filter and Pitch Control"
- 2. Right Click on the Dr.OctoREX to access the contextual menu, and select the "Combine" item. A combinator will appear and the Dr.OctoREX will automatically be nested in the sub-rack.
- 3. Hit TAB to view the rear of the rack.
- 4. On the Combinator, press the "Show Programmer" button. You will see additional CV input sockets appear on the programmer section.
- 5. Connect the Alias8 Knob B1 output socket to the Combinator CV1 input socket.
- 6. Double Click on the Knob B1 Text field and change the label to "Loop"
- 7. Below the CV1 socket, adjust the polarity switch to "Unipolar." The Knob output is unipolar, and adjusting this switch will cause the combinator will compensate to the range accordingly.
- 8. Hit TAB to return to the front rack panel.
- 9. On the Combinator programmer, locate modulation routing slot 1, currently assigned to Rotary 1. Click on Rotary 1 and change the source to "CV In 1". Click on the slot 1 Target field and set the destination to "Pattern > Loop Slot," and then set the Min value to Zero and leave the Max value at 7.
- 10. Press Play on the Reason Transport Bar, and the Dr. OctoREX will begin playing.
- 11.As the loop plays, adjust the Alias8 Knob B2 "Loop" control. You will see that as the knob value changes, the Dr.OctoREX active loop slot changes.

The Dr.OctoREX loop control, which is not normally controllable by a CV signal, is now under the control of the Alias8. This same technique can be applied to almost all Reason devices, making it possible to have a single Alias8 control important settings in a song session.

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COMBINATOR CV ROUTING (continued)

	ALIASO RE TEAM	A1-A8	Knob A1	Knob A2	Knob A3	Knob A4	Knob AS	Knob A6	Knob A7	Knob AB	TO M NIP OUTPUT	CV/1	
	Ø	11-88	Loop	Knob B2	Knob B3	Knob B4	Knob BS	Knob B6	Knob 87	Knob BB	1 CHOOSE C. PUT WITH SELECT (FUNCTION EDIT) CONTROL; 2 USE SCALE TO	2 (0)	
	bitplant	ILAR B	Pitch	Filter	Fader 3	Fader 4	Fader 5	Fader 6	Fader 7	Fader 8	ADJUST RANGE; 3 ROUTE EXTERNAL CV USING CV MOD .	۶Ô	
CV 3		-F8 - UNIP(Ø	Ŷ	Ø	Ø	Ô	Ø	Ô	Ô	0	© 4	
ALIASB	WARNING BELICLE FROMUT HOMEWING ANTE MODEL HOMEWING THE EMPORT MARK AND ANTE AND ANTE MILL WOR ANT AND ALL WOR ANT AND ALL	BIPOLAR - F1-	•	¢	٥	Ô	0	0	Ô	Ô	Main Outs	5 🔘	
		T1-T8	Tog i e 1	Togele 2	Toggle 3	Toggle 4	Toggle 5	Toggle 6	Toggle 7	Toggle 8	© Inv Out	4 © 7 ©	
		M1-M8			0	0	0	0	0	0	Bi Out ©	•©	
		_	Mom. 1		Mom. 3	Mom. 4	Mom. s	Mom. 6] мот. 2	Mom. 8	M.Fader		
Þ	, Combinator 1								-		7 /7	1	MIX
	COMBINATOR 1 SEQUENCER CONTROL MOD. J.* TION INPUT Mod When Mod Retary 2 Mod When Rotary 2 Rotary 2 Rotary 2 Rotary 2 Rotary 2 Rotary 3 PROOF AMMER CV IN												
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Alias8 CV Knob CV signal routed through a combinator to control parameters that do not have input cv sockets.

http://peff.com/alias8/examples/Combinator.reason.zip

TRIGGERING NOTES

Reason synthesizers and samplers can be triggered by sending a pair of control voltage signals to the Sequencer Control inputs on these types of devices. One signal represents the note pitch and is often labeled "CV" while the other signal controls the on/off state and is usually labeled "Gate". Most third party rack extension devices adhere to these conventions. The Alias8 can be used to generate this pair of signals to directly trigger sounds from Reason instruments without a keyboard or sequencer. This tutorial demonstrates a method of triggering a NN19 sampler loop from the Alias8.

- 1. In an empty song session, create an Alias8 CV Controller and a NN19 Digital Sampler.
- On the NN19 Sampler, click on the Sample Browser button, and load the audio file "090_LoccoGtr2_mLp_eLAB.aif" from the Factory Sound Bank / Music Loops / Fixed Tempo (wave, aiff) directory.
- 3. On the lower right side of the NN19 sample editor display, locate the "Set Sample Loop Mode" (Loop) control and set the mode to "FW." When the sample is played in this mode, it will cycle endlessly until the note is released.
- 4. Set the NN19 Polyphony to 1.
- 5. Hit TAB to view the rear of the rack.
- 6. Connect the Alias8 Knob A1 CV out to the NN19's Mono Sequencer Control "CV" input. This is the note value signal.
- 7. Double Click on the Knob A1 Text field and change the label to "Note"
- 8. Route the Alias8 Toggle 1 CV out to the NN19 Mono Sequencer Control "Gate" input.
- 9. Double Click on the Toggle 1 Text field and change the label to "Gate"
- 10. Hit TAB to return to the front rack panel.
- 11.On the Alias8, set the "Note" knob to 56, and then press the "Gate" button. When the NN19 receives the gate signal from the toggle button, the sample loop will play. Try adjusting the Note knob and you will hear the loop restart and play at different speeds.
- 12.Press the Gate button again to stop the loop. Save this session as it will be used in the next tutorial.

This is a quick and easy way to set up live loops for direct control from the Alias8, however there are a couple of issues that become evident if you start to sequence a song. The loop speed is completely independent of the sequencer tempo. It's rather impractical to use this technique for songs that require strict timing or quantization. The other issue is that when you press STOP on the transport bar, the sample will stop playing even though the Gate button is still active. The Gate button must be switched off, and then back on to continue sample playback. This is one of the protocols in Reason itself that you should be aware of when working with Alias8 as a note trigger device.

TRIGGERING NOTES (continued)



Alias8 CV Knob acting as a Note CV source, and the Toggle Button acting as a Gate CV source. The pair of signals triggers the NN19 sampler.

http://peff.com/alias8/examples/Triggering Notes.reason.zip



SCALE CONTROL

While some Reason devices have some capacity to attenuate or limit the output levels of CV signals, it is typical that CV signals covers the entire Bipolar or Unipolar range. CV inputs are often paired with a Scale trimmer knob that allow you to reduce the signal before it is applied to the target parameter. The Alias8 CV inputs in conjunction with a Knob control can be used to achieve a similar result. The one benefit is that the scale control is now part of the front panel and can be automated; as opposed to the trimmer knobs which are not directly accessible from the front. This tutorial demonstrates how to apply this feature to control an LFO panning effect.

- 1. Begin with the session created in the previous tutorial on "Triggering Notes"
- 2. On the NN19 1 Mix Channel device, click on the Show Insert FX button.
- 3. Right Click inside the Mix Channel sub-rack, to access the contextual menu, and then create a Line Mixer 6:2. The mixer will automatically appear as part of the mix channel effect chain.
- 4. Hit TAB to view the rear of the rack.
- 5. On the Mix Channel, locate the Insert FX TO DEVICE Left socket. Click and drag a cable to the Line Mixer Channel 1 Left input socket. Auto cabling should create a corresponding stereo connection cable between the right channel sockets.
- 6. Connect the Alias8 Knob A2 socket to the Line Mixer Pan CV IN socket.
- 7. Double Click on the Knob A2 Text field and change the label to "LFO Amt". This will be LFO to panning amount control.
- 8. Connect the NN19 Modulation Output LFO socket to the Alias8 CV In 1 socket.
- 9. Hit TAB to return to the front rack panel.
- 10.On the Alias8, adjust the Function Edit Select knob until the display reads A2; the function parameters for Knob A2 (LFO Amt knob) can now be adjusted.
- 11.Adjust the Alias8 CV Mod setting to "CV 1". Now all the settings should be established to hear the effect.
- 12.On the Alias8, press the "Gate" button (T1), and then slowly increase the value of "LFO Amt" (A2). You will hear the signal start panning from left to right, and as you increase the knob setting the separation will increase.

Alias8 CV Mod inputs are multiplied with the control values: Knob x CV Mod = Output. When the LFO value is multiplied by a zero knob setting, the output is zero. The Knob setting of 127 is equivalent to a 1.0 multiplier, so when the knob is set to maximum, the full LFO level passes through to the pan control. In this manner, different CV sources can be routed and scaled through the Alias8 for performance enhancement. Because the knob responds to automation, these performance changes can be stored in the sequencer.

SCALE CONTROL (continued)



NN19 LFO output signal routed to Alias8 Mod CV input is then scaled through Knob A1 (LFO Amt) and controls panning on the line mixer.

http://peff.com/alias8/examples/Scale_Control.reason.zip

PATTERN GATEWAY

Because of CV scaling capabilities, the Alias8 CV Controller can be used as signal switching control that turns signals on and off. The following tutorial explains how this feature can be implemented to act as a Gate enable/disable system that controls Kong Drums being triggered by Matrix Pattern Sequencers.

- 1. In an empty song session, create an Alias8 CV Controller, three Matrix Pattern Sequencers, and a Kong Drum Designer device.
- 2. On the Kong Drum Designer, load the patch "Afterhours -SHA.kong" from the Factory Sound Bank / Kong Patches / Kong Kits / -Sharooz (SHA) directory.
- 3. Hit TAB to view the rear of the rack and perform the following cable routings:
 - a. Matrix 1 Gate CV to Alias8 CV In 1
 - b. Matrix 2 Gate CV to Alias8 CV In 2
 - c. Matrix 3 Gate CV to Alias8 CV in 3
 - d. Alias8 Toggle 1 out to Kong Pad 1 Gate In
 - e. Alias8 Toggle 2 out to Kong Pad 2 Gate In
 - f. Alias8 Toggle 3 out to Kong Pad 4 Gate In
- 4. Hit TAB to return to the front rack panel.
- 5. Now on the Matrix Pattern Sequencers program the following gate patterns. It will be easier to drag clear all gate values first, the for the indicated ON steps, pencil in a gate with a maximum value:
 - a. Matrix 1: Steps 1, 5, 9, and 13 ON, all others off
 - b. Matrix 2: Steps 5 and 9 ON, all others off.
 - c. Matrix 3: Steps 3, 7, 11, and 15 ON, all others off.
- 6. On the Alias8, set the Select knob to "T1", and set the CV Mod to "CV 1". Double Click on the Toggle 1 Text field and change the label to "Bass"
- 7. Set the Select knob to "T2" and set CV Mod to "CV 2". Double Click on the Toggle 2 Text field and change the label to "Snare"
- 8. Set the Select knob to "T3" and set CV Mod to "CV 3". Double Click on the Toggle 3 Text field and change the label to "Hi Hat"
- 9. Press Play on the Reason Transport Bar. The Matrix sequencers should all become enabled.
- 10.Click on the Bass button, and you will hear the bass drum sequencing triggering Kong. Now enable the other patterns by clicking on the "Snare" and "Hi Hat" buttons.

In this example, the Toggle Buttons are merely acting as switches that let the Gate pulses pass through. When the switch is off, the CV output is zero, and when the switch is on, the pattern plays normally. There is one issue to contend with this configuration which is that when a switch is enabled in the middle of a gate pulse cycle, the Kong pad will be triggered and the timing will sound a bit off until the leading edge of the next gate pulse is received.

PATTERN GATEWAY (continued)



Matrix Gate Patterns pass through the Alias8 toggle buttons which act as enable/ disable switches.

http://peff.com/alias8/examples/Pattern_Gateway.reason.zip

SYNCHRONIZED LOOP CONTROLLER

This example is another form of a pattern gateway that can be used for triggering NurseREX loops. For this tutorial, the Alias8 acts as a control voltage splitter and gateway that directs a single pattern to multiple Kong pads. As a means to address the gate pulse cycle issue, a Thor pattern sequencer is used instead of a Matrix.

- 1. Start with empty song session, and create an Alias8 CV Controller and a Kong Drum Designer.
- 2. Hold down the Shift Key to bypass auto routing and create a Thor Polysonic Synthesizer.
- 3. On Thor, set the step sequencer mode to REPEAT, and disable all sequencer step buttons except for Step 1. (a shortcut is to click on step 2 and drag the cursor across the buttons to the right).
- 4. Set the Thor Step Sequencer edit knob to GATE LEN, and adjust the Step 1 Gate value to 6%.
- 5. Hit TAB to view the rear of the rack and perform the following cable routings:
 - a. Thor Step Sequencer Gate/Velocity output to Alias8 CV In 1
 - b. Alias8 Toggle 1 output to Kong Pad 1 Gate in
 - c. Alias8 Toggle 2 output to Kong Pad 2 Gate in
- 6. Hit TAB to return to the front rack panel.
- On Kong, select Drum Pad 1, and click on the Browse Drum Patch button. Load the loop, "Clb05_Bouncer_127_SHA.rx2" from the Factory Soundbank / Dr REX Drum Loops / Club / Drums Loops directory.
- 8. Click and select Drum Pad 2, and Load the loop, "Clb18_Groovefx2_127_SHA.rx2" from the Factory Soundbank / Dr REX Drum Loops / Club / Drums Loops directory.
- 9. On the Alias8, set the Function Edit Select knob to T1, and set the CV Mod to "CV 1". This directs the thor gate pulse to Toggle 1.
- 10.Set the Function Edit Select knob to T2 and set the CV Mod to "CV 1". The Thor gate pulse will also be split to Toggle 2.
- 11.On the Alias8, Double Click on the Toggle 1 text field and change the label to "Loop 1" and change the Toggle 2 text field to "Loop 2"
- 12. Press Play on the Reason Transport Bar, and the Thor Step sequencer should begin running.
- 13.On the Alias8, enable the "Loop 1" button, and when the step sequencer cycles back to the beginning of the measure, it will trigger Pad 1 on Kong. Now press the "Loop 2" button and the second loop will be triggered at the beginning of the next measure.

Try switching the loops on near the beginning of the measure. Because the Thor gate pulse is very short, there is less of a chance of a timing error that was evident in the previous example. This becomes a very effective way of developing real-time loop launching configurations for performance. The pulse can be further split to the other Toggle Buttons and even the momentary buttons for fills and transition loops.

SYNCHRONIZED LOOP CONTROLLER (continued)



Alias8 splits the incoming Thor Gate signal to Kong Pads 1 and 2, while also acting as an enable/disable control for triggering REX Loops.

http://peff.com/alias8/examples/Synchronized Loop Controller.reason.zip

Alias8 Hardware Integration



FIRMWARE UPDATE

The Alias8 Rack Extension has been designed to work seamlessly with it's hardware counterpart from Livid Instruments. First, you need to update the firmware to version 1.5.5 or later using the **Bootloader Software** and the **Alias 8 v155** firmware update. Details on performing the firmware update are available on the Livid Instruments Support pages:

http://lividinstruments.com/support_downloads.php

REMOTE SCRIPTS UPDATE

As of version 7.0.1, the Reason remote codecs do not support the Alias8, and must be updated manually or using the installer scripts provided by Livid Instruments. The installers can be found on the Livid wiki:

http://wiki.lividinstruments.com/wiki/Alias8_Reason_Remote_Script

Remote Mapping for Generic MIDI Controllers

Users who wish to customize their Reason Remote Codecs for use with the Alias8 CV Controller should refer to the following pages for MIDI map and Remote Map values assigned in the Rack Extension:

The following code is for use in the MIDI Controller.remotemap file

Scope	Peff con Control Su	n.peff.Alias8cv urface Item Kev	Remotable Item Scale Mode
,,		in the rectine they	
Мар	CC 07	Master Fader	
Мар	CC 12	Fader 1	
Мар	CC 13	Fader 2	
Мар	CC 14	Fader 3	
Мар	CC 15	Fader 4	
Мар	CC 16	Fader 5	
Мар	CC 17	Fader 6	
Мар	CC 18	Fader 7	
Мар	CC 19	Fader 8	
Мар	CC 23	Knob A1	
Мар	CC 24	Knob A2	
Мар	CC 25	Knob A3	
Мар	CC 26	Knob A4	
Мар	CC 27	Knob A5	
Мар	CC 28	Knob A6	
Мар	CC 29	Knob A7	
Мар	CC 30	Knob A8	
Мар	CC 31	Knob B1	
Мар	CC 33	Knob B2	
Мар	CC 34	Knob B3	
Мар	CC 35	Knob B4	
Мар	CC 36	Knob B5	
Мар	CC 37	Knob B6	
Мар	CC 39	Knob B7	
Мар	CC 40	Knob B8	
Мар	CC 41	Toggle 1	
Мар	CC 42	Toggle 2	
Мар	CC 43	Toggle 3	
Мар	CC 44	Toggle 4	
Мар	CC 45	ToggLe 5	
Мар	CC 46	ToggLe 6	
Мар	CC 47	loggLe 7	
Мар	CC 48	ToggLe 8	
Мар	CC 49	Momentary 1	
мар	CC 50	Momentary 2	
мар	CC 51	Momentary 3	
мар	CC 52	Momentary 4	
мар		Momentary 5	
мар		Momentary 6	
мар		Momentary 7	
мар	LC 56	Momentary 8	

alias **8**

Remote Mapping

Livid Instruments is one of the few controller manufacturers who have fully adapted the Reason Remote implementation, especially for the Momentary Button controls. Momentary Buttons, when mapped to other control surfaces of other manufacturers may behave as toggle buttons with a push on/push off action.

Main Remote Items										
Knob A1	Knob A2	Knob A3	Knob A4	Knob A5	Knob A6	Knob A7	Knob A8			
Knob B1	Knob B2	Knob B3	Knob B4	Knob B5	Knob B6	Knob B7	Knob B8			
Fader 1	Fader 2	Fader 3	Fader 4	Fader 5	Fader 6	Fader 7	Fader 8			
Toggle 1	Toggle 2	Toggle 3	Toggle 4	Toggle 5	Toggle 6	Toggle 7	Toggle 8			
Momentary 1	Momentary 2	Momentary 3	Momentary 4	Momentary 5	Momentary 6	Momentary 7	Momentary 8			
					Select	Master Fader				
Additional Re	mote Items									
CV Mod A1	CV Mod A2	CV Mod A3	CV Mod A4	CV Mod A5	CV Mod A6	CV Mod A7	CV Mod A8			
CV Mod B1	CV Mod B2	CV Mod B3	CV Mod B4	CV Mod B5	CV Mod B6	CV Mod B7	CV Mod B8			
CV Mod F1	CV Mod F2	CV Mod F3	CV Mod F4	CV Mod F5	CV Mod F6	CV Mod F7	CV Mod F8			
CV Mod T1	CV Mod T2	CV Mod T3	CV Mod T4	CV Mod T5	CV Mod T6	CV Mod T7	CV Mod T8			
CV Mod M1	CV Mod M2	CV Mod M3	CV Mod M4	CV Mod M5	CV Mod M6	CV Mod M7	CV Mod M8			
						CV Mod Master F	ader			
Scale A1	Scale A2	Scale A3	Scale A4	Scale A5	Scale A6	Scale A7	Scale A8			
Scale B1	Scale B2	Scale B3	Scale B4	Scale B5	Scale B6	Scale B7	Scale B8			
Scale F1	Scale F2	Scale F3	Scale F4	Scale F5	Scale F6	Scale F7	Scale F8			
Scale T1	Scale T2	Scale T3	Scale T4	Scale T5	Scale T6	Scale T7	Scale T8			
Scale M1	Scale M2	Scale M3	Scale M4	Scale M5	Scale M6	Scale M7	Scale M8			
						Scale Master Fo	ıder			

CLICS **B**

TECHNOLOGY

Propellerhead REASON and Rack Extensions

Propellerhead Software AB, Stockholm, Sweden

PEFF - Rack Extension Design and Development Hayden Bursk, Kurt Kurasaki, Thomas Merkle, Wolfgang Merkle

Livid Instruments Hardware Design, Reason Remote Implementation

Localization Andre Zacher, Jörg Hieronymous, Daisuke Naito, Franck Stauffer, Taro Mihara

Support James Bernard, Alan Strahsburg

Thanks to the Testre Group! The first rule of Fight Club is...

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Be Cool and Make Music!

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