Controlling Reason from Oxygen

General Overview

DirectLink is designed to give you intuitive, “hands-on” control of the Sequencer and Devices within Reason.

The Transport controls give you instant access to the transport and let you start, stop, record, loop, fast-forward, and rewind straight from Oxygen:

When a track is selected using Track <> button on Oxygen, the track is highlighted in dark gray within the sequencer and it is automatically record-enabled to help you begin recording quickly.

Many of the other Oxygen controls (slider buttons[1], knobs, sliders[1], etc.) automatically adjust their functionality depending on the Device that is currently selected within the Sequencer.

Reason includes a variety of different “Devices” that can be created and added to your “virtual rack” of equipment. New Devices are selected from the “Create” menu and fall under three basic categories:

- **Mixers** – Mixer Devices include the Mixer 14:2 and the Line Mixer 6:2.
- **Instruments** – Instrument Devices include Subtractor, Thor, Malström, NN19, NN-XT, Dr. Rex, Redrum, Matrix and RPG-8.
- **Effects** – Effects Devices includes all of the Devices between “MClass” and “Spider” in the Create drop-down menu.

When using the DirectLink preset (Preset 10 on Oxygen), the functionality of the Oxygen sliders[1], knobs and slider buttons[1] will vary depending on the Device track that is selected within the Reason Sequencer. For example, if you have a new song with one NN-XT Device and one Thor Device, the Reason sequencer will have a track for each of those Devices. Selecting the “NN-XT” sequencer track will result in Oxygen “focusing” on the NN-XT Device, whereas selecting the Thor track will shift the DirectLink focus to the Thor Device. The Device that is in focus will have the Oxygen controls (knobs, sliders[1], etc.) update to match the parameters of that device (this is covered in greater detail later in this User Guide).

> ***!*** *IMPORTANT: To control a Reason Device using DirectLink, the Device must be assigned to a sequencer track; If a sequencer track is not assigned to a Device, Oxygen will not be able to control that Device.*
>
> ***When you create instrument Devices, a sequencer track is automatically created and assigned to that Device. However, when you create Mixer and Effects Devices, a sequencer track is not automatically created for those Devices. To create a track for these types of Device, right-click on the Device (Ctrl-Click for Mac OS X users) and select “Create Track” from the bottom of the context menu which appears.***

[1] *Not available on Oxygen 25.*

Some Devices have multiple groups of similar parameters. Slider buttons C25 and C26 can be used to step through all of the available groups.

Note that if the knobs have no assignment for the currently active Device within Reason, turning a knob will have no effect.

The following control mappings are common across all devices:

Button C23 Select Previous Patch
Button C24 Select Next Patch

Button C25 Select Previous Group
Button C26 Select Next Group

Slider C9 Master Volume

You can also press [Ctrl]-[Alt] (Windows) or [Command]-[Option] (OS X) and one of the number keys on the main part of the computer keyboard to jump to a specific group. The number of variations available depends on the control surface and which Reason device has MIDI input. To select the default variation, press [Ctrl]-[Alt]-[1] or [Command]-[Option]-[1].

✓ Oxygen 25 users:

As the Oxygen 25 does not have slider buttons for changing the selected group you can still use the computer keyboard to access the different Groups instead. To select a keyboard shortcut variation, press [Ctrl]-[Alt] (Windows) or [Command]-[Option] (OS X) and one of the number keys on the main part of the computer keyboard. The number of variations available depends on the control surface and which Reason device has MIDI input. To select the default variation, press [Ctrl]-[Alt]-[1] or [Command]-[Option]-[1].

Reason Device Mappings

Mixer Devices

Mixer 14:2

The sliders always control the Channel Volumes.

The Slider Buttons control Mute by default, but Solo if an 'Aux' group is selected. Note that since C25 and C26 are used to navigate groups muting track 8 is only possible when the default group is selected.

Groups 1-3 focus on Channels 1-8, and Groups 4-6 focus on Channels 9-14. On the Oxygen 25 there are 2 additional Groups to access the Channel Volume parameters. In this case groups 1-4 are focused on channels 1-8 and groups 5-7 are focused on channels 9-14.

C9 controls the Master Volume.

Group	Oxygen 25	Oxygen
1	Ch 1-8 Volume	Ch 1-8 Pan
2	Ch 1-8 Pan	Ch 1-8 Aux 1
3	Ch 1-8 Aux 1	Ch 1-8 Aux 2
4	Ch 1-8 Aux 2	Ch 9-14 Pan
5	Ch 9-14 Volume	Ch 9-14 Aux 1
6	Ch 9-14 Pan	Ch 9-14 Aux 2
7	Ch 9-14 Aux 1	-
8	Ch 9-14 Aux 2	-

Mixer 6:2

The sliders always control the Channel Volumes.

The Slider Buttons control Mute by default, but Solo if an 'Aux' group is selected.

There are only 6 Channels. Control C7 is mapped to the Aux Send Return Level, and C8 has no purpose. On the Oxygen 25 there is an additional Group to access the Channel Volume parameters.

C9 controls the Master Volume.

Group	Oxygen 25	Oxygen
1	Ch 1-6 Volume	Ch 1-6 Pan
2	Ch 1-6 Pan	Ch 1-6 Aux Send
3	Ch 1-6 Aux Send	-

Instrument Devices

Subtractor

Oxygen

Fader C1	Amp Env Attack
Fader C2	Amp Env Decay
Fader C3	Amp Env Sustain
Fader C4	Amp Env Release
Fader C5	Filter Env Attack
Fader C6	Filter Env Decay
Fader C7	Filter Env Sustain
Fader C8	Filter Env Release

Group 1: Filters & LFO

Knob C10	Filter Freq
Knob C11	Filter Res
Knob C12	Filter Type
Knob C13	Filter Env Amount
Knob C14	Filter2 Freq
Knob C15	Filter2 Res
Knob C16	LFO1 Rate
Knob C17	LFO1 Amount
Button C18	LFO1 Wave
Button C19	LFO1 Dest
Button C20	LFO Sync Enable

Group 2: Oscillators

Knob C10	Osc1 Phase Diff
Knob C11	Osc1 Octave
Knob C12	Osc1 Semitone
Knob C13	FM Amount
Knob C14	Osc2 Phase Diff
Knob C15	Osc2 Octave
Knob C16	Osc2 Semitone
Knob C17	Osc Mix
Button C18	Osc1 Wave
Button C19	Osc2 Wave
Button C20	Osc2 On/Off

Oxygen 25

Group 1: Filters & LFO

Knob C1	Filter Freq
Knob C2	Filter Res
Knob C3	Filter Type
Knob C4	Filter Env Amount
Knob C5	Filter2 Freq
Knob C6	Filter2 Res
Knob C7	LFO1 Rate
Knob C8	LFO1 Amount

Group 2: Oscillators

Knob C1	Osc1 Phase Diff
Knob C2	Osc1 Wave
Knob C3	Osc1 Octave
Knob C4	FM Amount
Knob C5	Osc2 Phase Diff
Knob C6	Osc2 Wave
Knob C7	Osc2 Octave
Knob C8	Osc Mix

Group 3: Envelopes

Knob C1	Amp Env Attack
Knob C2	Amp Env Decay
Knob C3	Amp Env Sustain
Knob C4	Amp Env Release
Knob C5	Filter Env Attack
Knob C6	Filter Env Decay
Knob C7	Filter Env Sustain
Knob C8	Filter Env Release

Thor

Oxygen

Fader C1	Rotary 1
Fader C2	Rotary 2
Fader C3	Osc 1 And 2 Balance
Fader C4	Filter 3 Drive
Fader C5	Filter 3 Freq
Fader C6	Filter 3 Res
Fader C7	Delay Dry Wet
Fader C8	Chorus Dry Wet
Button C18	Button 1
Button C19	Button 2

Group 1: Thor Osc 1&2

Knob C10	Osc 1 Oct
Knob C11	Osc 1 Semi
Knob C12	Osc 1 Tune
Knob C13	Osc 1 And 2 Level
Knob C14	Osc 2 Oct
Knob C15	Osc 2 Semi
Knob C16	Osc 2 Tune
Knob C17	Osc 1 AM From Osc 2
Button C20	Osc 2 Sync To Osc 1

Group 2: Thor Filter 1

Knob C10	Filter 1 Freq
Knob C11	Filter 1 Res
Knob C12	Filter 1 Env Amount
Knob C13	Shaper Drive
Knob C14	Filter Env Attack
Knob C15	Filter Env Decay
Knob C16	Filter Env Sustain
Knob C17	Filter Env Release
Button C20	Filter 1 Type

Group 3: Thor LFO & Mod

Knob C10	LFO 1 Waveform
Knob C11	LFO 1 Rate
Knob C12	LFO 1 Delay
Knob C13	LFO 1 KbdFollow
Knob C14	Mod Env Delay
Knob C15	Mod Env Attack
Knob C16	Mod Env Decay
Knob C17	Mod Env Release
Button C20	Mod Env Loop

Group 4: Thor Amp

Knob C10	Amplifier Velocity
Knob C11	Amplifier Gain
Knob C12	Amplifier Pan
Knob C13	0
Knob C14	Amp Env Attack
Knob C15	Amp Env Decay
Knob C16	Amp Env Sustain
Knob C17	Amp Env Release
Button C20	0

Group 5: Thor Delay & Chorus

Knob C10	Chorus Delay
Knob C11	Chorus Feedback
Knob C12	Chorus Rate
Knob C13	Chorus Amt
Knob C14	Delay Time
Knob C15	Delay Feedback
Knob C16	Delay Rate
Knob C17	Delay Amt
Button C20	Delay Sync

Thor

Oxygen 25

Group 1: Thor Globals

Knob C1	Rotary 1
Knob C2	Rotary 2
Knob C3	Osc 1 And 2 Balance
Knob C4	Filter 3 Drive
Knob C5	Filter 3 Freq
Knob C6	Filter 3 Res
Knob C7	Delay Dry Wet
Knob C8	Chorus Dry Wet

Group 2: Osc 1&2

Knob C1	Osc 1 Oct
Knob C2	Osc 1 Semi
Knob C3	Osc 1 Tune
Knob C4	Osc 1 And 2 Level
Knob C5	Osc 2 Oct
Knob C6	Osc 2 Semi
Knob C7	Osc 2 Tune
Knob C8	Osc 1 AM From Osc 2

Group 3: Filter 1

Knob C1	Filter 1 Freq
Knob C2	Filter 1 Res
Knob C3	Filter 1 Env Amount
Knob C4	Shaper Drive
Knob C5	Filter Env Attack
Knob C6	Filter Env Decay
Knob C7	Filter Env Sustain
Knob C8	Filter Env Release

Group 4: LFO & Mod

Knob C1	LFO 1 Waveform
Knob C2	LFO 1 Rate
Knob C3	LFO 1 Delay
Knob C4	LFO 1 KbdFollow
Knob C5	Mod Env Delay
Knob C6	Mod Env Attack
Knob C7	Mod Env Decay
Knob C8	Mod Env Release

Group 5: Amp

Knob C1	Amplifier Velocity
Knob C2	Amplifier Gain
Knob C3	Amplifier Pan
Knob C4	0
Knob C5	Amp Env Attack
Knob C6	Amp Env Decay
Knob C7	Amp Env Sustain
Knob C8	Amp Env Release

Malström

Oxygen

Fader C1	Oscillator B Attack
Fader C2	Oscillator B Decay
Fader C3	Oscillator B Sustain
Fader C4	Oscillator B Release
Fader C5	Oscillator A Attack
Fader C6	Oscillator A Decay
Fader C7	Oscillator A Sustain
Fader C8	Oscillator A Release

Group 1: Filter B

Knob C10	Filter B Freq
Knob C11	Filter B Resonance
Knob C12	Filter B Mode
Knob C13	Filter Env Amount
Knob C14	Filter Env Attack
Knob C15	Filter Env Decay
Knob C16	Filter Env Sustain
Knob C17	Filter Env Release
Button C18	Filter B On/Off
Button C19	Filter B Env
Button C20	Filter B Kbd Track

Group 2: Filter A

Knob C10	Filter A Freq
Knob C11	Filter A Resonance
Knob C12	Filter A Mode
Knob C13	Filter Env Amount
Knob C14	Filter Env Attack
Knob C15	Filter Env Decay
Knob C16	Filter Env Sustain
Knob C17	Filter Env Release
Button C18	Filter A On/Off
Button C19	Filter A Env
Button C20	Filter A Kbd Track

Group 3: Osc B

Knob C10	Oscillator B Shift
Knob C11	Oscillator B Octave
Knob C12	Oscillator B Semi
Knob C13	Oscillator B Cent
Knob C14	Oscillator B Motion
Knob C15	Oscillator B Index
Knob C16	0
Knob C17	Oscillator B Gain
Button C18	Oscillator B On/Off
Button C19	Route Oscillator B to Filter B
Button C20	0

Group 4: Osc A

Knob C10	Oscillator A Shift
Knob C11	Oscillator A Octave
Knob C12	Oscillator A Semi
Knob C13	Oscillator A Cent
Knob C14	Oscillator A Motion
Knob C15	Oscillator A Index
Knob C16	0
Knob C17	Oscillator A Gain
Button C18	Oscillator A On/Off
Button C19	Route Oscillator A to Filter B
Button C20	Route Oscillator A to Shaper

Group 5: Mod B

Knob C10	Modulator B Target
Knob C11	Modulator B Rate
Knob C12	Modulator B To Motion
Knob C13	Modulator B Curve
Knob C14	0
Knob C15	Modulator B To Level
Knob C16	Modulator B To Filter
Knob C17	Modulator B To Modulator A
Button C18	Modulator B On/Off
Button C19	Modulator B One Shot
Button C20	Modulator B Sync

Group 6: Mod A

Knob C10	Modulator A Target
Knob C11	Modulator A Rate
Knob C12	0
Knob C13	Modulator A Curve
Knob C14	0
Knob C15	Modulator A to Pitch
Knob C16	Modulator A to Index
Knob C17	Modulator A to Shift
Button C18	Modulator A On/Off
Button C19	Modulator A One Shot
Button C20	Modulator A Sync

Malström

Oxygen 25

Group 1: Filter B

Knob C10	Filter B Freq
Knob C11	Filter B Resonance
Knob C12	Filter B Mode
Knob C13	Filter Env Amount
Knob C14	Filter Env Attack
Knob C15	Filter Env Decay
Knob C16	Filter Env Sustain
Knob C17	Filter Env Release

Group 2: Filter A

Knob C10	Filter A Freq
Knob C11	Filter A Resonance
Knob C12	Filter A Mode
Knob C13	Filter Env Amount
Knob C14	Filter Env Attack
Knob C15	Filter Env Decay
Knob C16	Filter Env Sustain
Knob C17	Filter Env Release

Group 3: Oscillator B

Knob C1	Knob C1
Knob C2	Knob C2
Knob C3	Knob C3
Knob C4	Knob C4
Knob C5	Knob C5
Knob C6	Knob C6
Knob C7	Knob C7
Knob C8	Knob C8

Group 2: Oscillator A

Knob C1	Oscillator A Motion
Knob C2	Oscillator A Index
Knob C3	Oscillator A Shift
Knob C4	Oscillator A Octave
Knob C5	Oscillator A Attack
Knob C6	Oscillator A Decay
Knob C7	Oscillator A Sustain
Knob C8	Oscillator A Release

Group 5: Mod B

Knob C1	Modulator B Target
Knob C2	Modulator B Rate
Knob C3	Modulator B To Motion
Knob C4	Modulator B Curve
Knob C5	Modulator B On/Off
Knob C6	Modulator B To Level
Knob C7	Modulator B To Filter
Knob C8	Modulator B To Modulator A

Group 6: Mod A

Knob C1	Modulator A Target
Knob C2	Modulator A Rate
Knob C3	Modulator A One Shot
Knob C4	Modulator A Curve
Knob C5	Modulator A On/Off
Knob C6	Modulator A to Pitch
Knob C7	Modulator A to Index
Knob C8	Modulator A to Shift

NN19

Oxygen

NN19 Digital Sampler

Fader C1	Amp Env Attack
Fader C2	Amp Env Decay
Fader C3	Amp Env Sustain
Fader C4	Amp Env Release
Fader C5	Filter Env Attack
Fader C6	Filter Env Decay
Fader C7	Filter Env Sustain
Fader C8	Filter Env Release
Knob C10	Filter Freq
Knob C11	Filter Res
Knob C12	Filter Mode
Knob C13	Filter Env Amount
Knob C14	Osc Octave
Knob C15	Portamento
Knob C16	LFO Rate
Knob C17	LFO Amount
Button C18	LFO Wave
Button C19	LFO Dest
Button C20	Filter On/Off

Oxygen 25

Group 1: Filter

Knob C1	Filter Freq
Knob C2	Filter Res
Knob C3	Filter Mode
Knob C4	Filter Env Amount
Knob C5	Filter Env Attack
Knob C6	Filter Env Decay
Knob C7	Filter Env Sustain
Knob C8	Filter Env Release

Group 2: Env & Mod

Knob C1	Osc Octave
Knob C2	Portamento
Knob C3	LFO Rate
Knob C4	LFO Amount
Knob C5	Amp Env Attack
Knob C6	Amp Env Decay
Knob C7	Amp Env Sustain
Knob C8	Amp Env Release

NN-XT

Oxygen

Knob C10	Filter Freq
Knob C11	Filter Res
Knob C12	Amp Env Attack
Knob C13	Amp Env Decay
Knob C14	Amp Env Release
Knob C15	Mod Env Decay
Knob C16	External Controller
Knob C17	0

Oxygen 25

Knob C1	Filter Freq
Knob C2	Filter Res
Knob C3	Amp Env Attack
Knob C4	Amp Env Decay
Knob C5	Amp Env Release
Knob C6	Mod Env Decay
Knob C7	External Controller
Knob C8	0

Oxygen

Fader C1	Filter Env Attack
Fader C2	Filter Env Decay
Fader C3	Filter Env Sustain
Fader C4	Filter Env Release
Fader C5	Amp Env Attack
Fader C6	Amp Env Decay
Fader C7	Amp Env Sustain
Fader C8	Amp Env Release
Knob C10	Filter Freq
Knob C11	Filter Res
Knob C12	Filter Mode
Knob C13	Filter Env Amount
Knob C14	Osc Octave
Knob C15	Transpose
Knob C16	Osc Fine Tune
Knob C17	Osc Env Amount
Button C18	LFO Wave
Button C19	LFO Dest
Button C20	Filter On/Off

Oxygen 25

Group 1: Filter & Osc		**Group 2: Env**	
Knob C1	Filter Freq	Knob C1	Amp Env Attack
Knob C2	Filter Res	Knob C2	Amp Env Decay
Knob C3	Filter Mode	Knob C3	Amp Env Sustain
Knob C4	Filter Env Amount	Knob C4	Amp Env Release
Knob C5	Transpose	Knob C5	Filter Env Attack
Knob C6	Osc Octave	Knob C6	Filter Env Decay
Knob C7	Osc Fine Tune	Knob C7	Filter Env Sustain
Knob C8	Osc Env Amount	Knob C8	Filter Env Release

Redrum

Oxygen

Fader C1	Drum 1 Level
Fader C2	Drum 2 Level
Fader C3	Drum 3 Level
Fader C4	Drum 4 Level
Fader C5	Drum 5 Level
Fader C6	Drum 6 Level
Fader C7	Drum 7 Level
Fader C8	Drum 8 Level
Button C18	Run
Button C19	Pattern Enable
Button C20	0

Group 1: Pan

Knob C10	Drum 1 Pan
Knob C11	Drum 2 Pan
Knob C12	Drum 3 Pan
Knob C13	Drum 4 Pan
Knob C14	Drum 5 Pan
Knob C15	Drum 6 Pan
Knob C16	Drum 7 Pan
Knob C17	Drum 8 Pan

Group 2: Pitch

Knob C10	Drum 1 Pitch
Knob C11	Drum 2 Pitch
Knob C12	Drum 3 Pitch
Knob C13	Drum 4 Pitch
Knob C14	Drum 5 Pitch
Knob C15	Drum 6 Pitch
Knob C16	Drum 7 Pitch
Knob C17	Drum 8 Pitch

Group 3: Send 1

Knob C10	Drum 1 Send 1 Amount
Knob C11	Drum 2 Send 1 Amount
Knob C12	Drum 3 Send 1 Amount
Knob C13	Drum 4 Send 1 Amount
Knob C14	Drum 5 Send 1 Amount
Knob C15	Drum 6 Send 1 Amount
Knob C16	Drum 7 Send 1 Amount
Knob C17	Drum 8 Send 1 Amount

Group 4: Send 2

Knob C10	Drum 1 Send 2 Amount
Knob C11	Drum 2 Send 2 Amount
Knob C12	Drum 3 Send 2 Amount
Knob C13	Drum 4 Send 2 Amount
Knob C14	Drum 5 Send 2 Amount
Knob C15	Drum 6 Send 2 Amount
Knob C16	Drum 7 Send 2 Amount
Knob C17	Drum 8 Send 2 Amount

Redrum

Oxygen 25

Group 1: Level

Knob C1	Drum 1 Level
Knob C2	Drum 2 Level
Knob C3	Drum 3 Level
Knob C4	Drum 4 Level
Knob C5	Drum 5 Level
Knob C6	Drum 6 Level
Knob C7	Drum 7 Level
Knob C8	Drum 8 Level

Group 2: Pan

Knob C1	Drum 1 Pan
Knob C2	Drum 2 Pan
Knob C3	Drum 3 Pan
Knob C4	Drum 4 Pan
Knob C5	Drum 5 Pan
Knob C6	Drum 6 Pan
Knob C7	Drum 7 Pan
Knob C8	Drum 8 Pan

Group 3: Pitch

Knob C1	Drum 1 Level
Knob C2	Drum 2 Level
Knob C3	Drum 3 Level
Knob C4	Drum 4 Level
Knob C5	Drum 5 Level
Knob C6	Drum 6 Level
Knob C7	Drum 7 Level
Knob C8	Drum 8 Level

Group 4: Send 1

Knob C1	Drum 1 Send 1 Amount
Knob C2	Drum 2 Send 1 Amount
Knob C3	Drum 3 Send 1 Amount
Knob C4	Drum 4 Send 1 Amount
Knob C5	Drum 5 Send 1 Amount
Knob C6	Drum 6 Send 1 Amount
Knob C7	Drum 7 Send 1 Amount
Knob C8	Drum 8 Send 1 Amount

Group 5: Send 2

Knob C1	Drum 1 Send 2 Amount
Knob C2	Drum 2 Send 2 Amount
Knob C3	Drum 3 Send 2 Amount
Knob C4	Drum 4 Send 2 Amount
Knob C5	Drum 5 Send 2 Amount
Knob C6	Drum 6 Send 2 Amount
Knob C7	Drum 7 Send 2 Amount
Knob C8	Drum 8 Send 2 Amount

Effects

The effects have common control mappings across the range. In the reference below Knobs 1-8 are used to represent the knobs on Oxygen as follows:

Reference	Oxygen 25	Oxygen
Knob 1	Knob C1	Knob C10
Knob 2	Knob C2	Knob C11
Knob 3	Knob C3	Knob C12
Knob 4	Knob C4	Knob C13
Knob 5	Knob C5	Knob C14
Knob 6	Knob C6	Knob C15
Knob 7	Knob C7	Knob C16
Knob 8	Knob C8	Knob C17

The sliders and slider buttons are unmapped when an effect is mapped.

Mclass Equalizer

Group 1: Low Shelf

Knob 1	Low Shelf Frequency
Knob 2	Low Shelf Gain
Knob 3	Low Shelf Q
Knob 4	Low Shelf Enable
Knob 5	Parametric 1 Frequency
Knob 6	Parametric 1 Gain
Knob 7	Parametric 1 Q
Knob 8	Parametric 1 Enable

Group 1: High Shelf

Knob 1	Parametric 2 Frequency
Knob 2	Parametric 2 Gain
Knob 3	Parametric 2 Q
Knob 4	Parametric 2 Enable
Knob 5	Hi Shelf Frequency
Knob 6	Hi Shelf Gain
Knob 7	Hi Shelf Q
Knob 8	Hi Shelf Enable

Mclass Compressor

Knob 1	Input Gain
Knob 2	Threshold
Knob 3	Ratio
Knob 4	0
Knob 5	Attack
Knob 6	Release
Knob 7	0
Knob 8	Output Gain

Mclass Stereo Imager

Knob 1	Low Width
Knob 2	X-Over Frequency
Knob 3	High Width
Knob 4	Solo
Knob 5	0
Knob 6	0
Knob 7	0
Knob 8	0

Mclass Maximizer

Knob 1	Input Gain
Knob 2	Attack Speed
Knob 3	Release Speed
Knob 4	Output Gain
Knob 5	Soft Clip Amount
Knob 6	0
Knob 7	0
Knob 8	0

RV7000 Advanced Reverb

Knob 1	Decay
Knob 2	HF Damp
Knob 3	Hi EQ
Knob 4	Dry/Wet
Knob 5	0
Knob 6	0
Knob 7	0
Knob 8	0

Scream 4 Distortion

Group 1: Controls

Knob 1	Damage Control
Knob 2	Damage Type
Knob 3	Parameter 1
Knob 4	Parameter 2
Knob 5	Cut Lo
Knob 6	Cut Mid
Knob 7	Cut Hi
Knob 8	Master Level

Group 2: EQ

Knob 1	Body Resonance
Knob 2	Body Scale
Knob 3	Body Auto
Knob 4	Body Type
Knob 5	0
Knob 6	0
Knob 7	0
Knob 8	Master Level

BV512 Digital Vocoder

Group 1: Controls

Knob 1	Band Count
Knob 2	Vocoder/Equalizer
Knob 3	Shift
Knob 4	HF Emphasis
Knob 5	Attack
Knob 6	Decay
Knob 7	Dry/Wet
Knob 8	0

Group 2: band 1-8

Knob 1	Band Level 1
Knob 2	Band Level 2
Knob 3	Band Level 3
Knob 4	Band Level 4
Knob 5	Band Level 5
Knob 6	Band Level 6
Knob 7	Band Level 7
Knob 8	Band Level 8

Group 3: band 9-16

Knob 1	Band Level 9
Knob 2	Band Level 10
Knob 3	Band Level 11
Knob 4	Band Level 12
Knob 5	Band Level 13
Knob 6	Band Level 14
Knob 7	Band Level 15
Knob 8	Band Level 16

Group 4: band 17-24

Knob 1	Band Level 17
Knob 2	Band Level 18
Knob 3	Band Level 19
Knob 4	Band Level 20
Knob 5	Band Level 21
Knob 6	Band Level 22
Knob 7	Band Level 23
Knob 8	Band Level 24

Group 5: band 25-32

Knob 1	Band Level 25
Knob 2	Band Level 26
Knob 3	Band Level 27
Knob 4	Band Level 28
Knob 5	Band Level 29
Knob 6	Band Level 30
Knob 7	Band Level 31
Knob 8	Band Level 32

RV-7 Digital Reverb

Knob 1	Size
Knob 2	Decay
Knob 3	Damping
Knob 4	Dry/Wet
Knob 5	0
Knob 6	0
Knob 7	0
Knob 8	Algorithm

DDL-1 Digital Delay Line

Knob 1	DelayTime (steps)
Knob 2	DelayTime (ms)
Knob 3	Step Length
Knob 4	0
Knob 5	Feedback
Knob 6	Pan
Knob 7	Dry/Wet Balance
Knob 8	Unit

D-11 Foldback Distortion

Knob 1	Amount
Knob 2	Foldback
Knob 3	0
Knob 4	0
Knob 5	0
Knob 6	0
Knob 7	0
Knob 8	0

ECF-42 Envelope Controlled Filter

Knob 1	Frequency
Knob 2	Resonance
Knob 3	Env Amount
Knob 4	Velocity
Knob 5	Attack
Knob 6	Decay
Knob 7	Sustain
Knob 8	Release

CF-101 Chorus/Flanger

Knob 1	Delay
Knob 2	Feedback
Knob 3	Rate
Knob 4	Modulation Amount
Knob 5	LFO Sync Enable
Knob 6	Send/Insert mode
Knob 7	0
Knob 8	0

PH-90 Phaser

Knob 1	Frequency
Knob 2	Split
Knob 3	Width
Knob 4	Rate
Knob 5	Frequency Modulation
Knob 6	Feedback
Knob 7	Sync
Knob 8	0

UN-16 Unison

Knob 1	Detune
Knob 2	Dry/Wet
Knob 3	0
Knob 4	0
Knob 5	0
Knob 6	0
Knob 7	0
Knob 8	Voice Count

Comp-01 Compressor/Limiter

Knob 1	Ratio
Knob 2	Threshold
Knob 3	Attack
Knob 4	Release
Knob 5	0
Knob 6	0
Knob 7	0
Knob 8	0

PEQ-2 Two band Parametriq EQ

Knob 1	Filter A Freq
Knob 2	Filter A Q
Knob 3	Filter A Gain
Knob 4	Filter B On/Off
Knob 5	Filter B Freq
Knob 6	Filter B Q
Knob 7	Filter B Gain
Knob 8	0

Matrix pattern Sequencer

Group 1: Pattern Select		Group 2: Bank Select	
Knob 1	Pattern 1	Knob 1	Bank A
Knob 2	Pattern 2	Knob 2	Bank B
Knob 3	Pattern 3	Knob 3	Bank C
Knob 4	Pattern 4	Knob 4	Bank D
Knob 5	Pattern 5	Knob 5	0
Knob 6	Pattern 6	Knob 6	0
Knob 7	Pattern 7	Knob 7	0
Knob 8	Pattern 8	Knob 8	0