WAVES ELEMENT USER GUIDE
TABLE OF CONTENTS

CHAPTER 1 – INTRODUCTION ..............................................................................................3
  1.1 Welcome ......................................................................................................................3
  1.2 Product Overview .......................................................................................................3
  1.3 Concepts and Terminology ..........................................................................................4
  1.4 Components ...............................................................................................................5

CHAPTER 2 – QUICK START GUIDE ...................................................................................6

CHAPTER 3 – INTERFACE AND CONTROLS ......................................................................7
  3.1 Interface .......................................................................................................................7
  3.2 Controls .......................................................................................................................8

CHAPTER 4 – STANDALONE APPLICATION .......................................................................22

CHAPTER 5 – THE WAVESYSTEM ...................................................................................23
  5.1 The WaveSystem Toolbar .........................................................................................23
  5.2 Preset Handling .........................................................................................................24
  5.3 Interface Controls .....................................................................................................27
  5.4 Waves Preferences (Pro Tools only) .........................................................................30
CHAPTER 1 – INTRODUCTION

1.1 Welcome

Thank you for choosing Waves! In order to get the most out of your Waves processor, please take the time to read through this manual.

In conjunction, we also suggest that you become familiar with www.wavesupport.net. There you will find an extensive Answer Base, the latest Tech Specs, detailed Installation guides, new Software Updates, and current information on Authorization and Registration.

By signing up at www.wavesupport.net, you will receive personalized information on your registered products, reminders when updates are available, and information on your authorization status.

1.2 Product Overview

Waves Element is a virtual analog subtractive polyphonic synthesizer, designed to provide fat analog sound in the tradition of the classic analog synths, with the control and flexibility of modern digital units. Element's control panel combines tradition with intuitive interaction, so you can easily customize existing presets, or build custom patches from the ground up. Special care and attention has been given to Element's sound quality, in order to recreate the fatness and depth of its analog ancestors.

Drawing inspiration from the classics, Element lets you create seemingly complex sounds using very simple settings, and then add “bells and whistles” using its built-in modulators, effects and sequencer/arpeggiator. All Element parameters are accessible via a single page interface, conveniently laid out so you can see the entire patch at all times. Fully MIDI controllable, with easy-to-use MIDI Learn for all controls, Element is designed for quick integration with any connected MIDI control device, and can be used as either a plugin within your DAW host, or as a standalone application.
1.3 Concepts and Terminology

Element is powered by Virtual Voltage™, which connects its various generators and transformation filters, envelopes and modulators. Therefore, Element uses many of the same terms used by its hardware forefathers: VCF (Voltage Controlled Filter), VCA (Voltage Controlled Amplifier) and so on.

Anyone acquainted with synthesis – especially classic ’80s-style polyphonic subtractive synthesis – should feel right at home with Element. You’ll be able to dive right in and start programming immediately. For novice synthesists, Element is an ideal place to learn the basics of synthesis theory. The learning curve will pay off when encountering other synthesizers, whether software or hardware, analog or digital.

All users can partake in the instant gratification of Element’s vast selection of factory presets. Element’s team of experienced preset developers created hundreds of presets, sorted by category, so you can quickly find just the sound you need: Leads, pads, basses, sound effects, sequences, gated rhythmic lines and motions. Or, just browse around until something catches your ear – or imagination.

Whether in the studio or live on stage, many musicians like to control synthesizer parameters in real time for enhanced creativity and expression. While Element supports the basic automation features of plugin hosting technologies like VST, it also supports MIDI Learn. Assigning an Element control to a knob on your MIDI controller is as easy as right click > Learn, knob turn, done!

Analog modeling and sound quality do come at a price. Element can be rather CPU-hungry compared to other software synthesizers. During the days of analog hardware, less expensive oscillators were often considered “dirty,” while accurate oscillators cost more than was practical for music-making. Ironically, in today’s digital world, creating a pristine oscillator is comparatively easy; it’s the “dirtiness” that takes more CPU calculations to recreate.
To conserve CPU power, Element lets you select the maximum number of simultaneous voices, and also includes a selectable High Definition mode. HD increases Element’s process resolution, resulting in enhanced depth and greater high-end definition. Certain types of presets, however, may actually sound better with HD mode switched off.

1.4 Components

The Element has one component:

- Element Stereo

Element is a virtual instrument plugin and will appear under the related selection menus for virtual instruments under all supported DAW host applications.

Waves Element works also as a standalone application, using ASIO (Windows) or Core Audio (Mac) drivers to play through your audio device of choice. Element receives MIDI data to trigger notes and control changes.
CHAPTER 2 – QUICK START GUIDE

1. Open Element on an instrument track in your DAW of choice, or launch the Element standalone application.
2. Select a preset from Elements factory presets.
3. Play!

Use the next/previous preset arrow controls on the toolbar to scroll through presets. If you’re looking for a certain type of sound, click the load button to reveal the factory presets, sorted by category.
CHAPTER 3 – INTERFACE AND CONTROLS

3.1 Interface
3.2 Controls

The Element interface is arranged into four sections grouped according to function, each highlighted in a different color.

- Voice generation and subtractive elements (blue)
- Modulation sources and patches (purple)
- Effects, EQ, global and output sections (green)
- Arpeggiator / sequencer (red)

**Oscillators**

Element has two modeled analog oscillators which are labeled **OSC 1** and **OSC 2**.

**OCT** determines the pitch range.
- Range: 2, 4, 8, 16, 32 (from highest to lowest pitch)

**TUNE** determines the pitch.
- Range: -12 – +12 semitones

**FINE** fine-tunes the pitch.
- Range: -100 – +100 cents
**TYPE** determines the waveform type.
  Range: Sine, Saw, Triangle, Pulse

**PW** determines the pulse width. *(Pulse waves only)*
  Range: 0 – 99

**VCO** selects between virtual Voltage-Controlled Oscillation and virtual Digitally-Controlled Oscillation. VCO starts the oscillation at a random phase, and jitters the pitch within a contained range; DCO starts the oscillation when triggered by a note, and is more consistent.
  Range: VCO, DCO

**SINE MOD** controls the modulation of OSC 1 using a sine oscillator. *(OSC 1 only)*
  Range: 0 – 100

**FM** *(Frequency Modulation)* controls the amount by which the frequency of OSC 2 is modulated by OSC 1. *(OSC 2 only)*
  Range: 0 – 100

**PhM** *(Phase Modulation)* controls the amount by which the phase of OSC 2 is modulated by OSC 1. *(OSC 2 only)*
  Range: 0 – 100

**SYNC** synchronizes the triggering the OSC 2 waveform to the rate of OSC 1. When activated, OSC 2 pitch controls affect only OSC 2 timbre, not its pitch.
  Range: On/Off

**Additional Oscillators & Mix Section**

This section is used to combine OSC 1 and OSC 2, and to add noise, sub-oscillation and ring modulation.
**SUB** mixes in a triangle wave one octave below OSC 1.
   Range: 0 – 100

**NOISE** mixes in white noise.
   Range: 0 – 100

**RING** controls the ring modulation of OSC 1 and OSC 2.
   Range: 0 – 100

**OSC 1 / OSC 2** activate each oscillator.
   Range: In, Out

**MIX** balances the mix between OSC 1 and OSC 2.
   Range: -50 – +50

**MONO** toggles between monophonic and polyphonic modes.
   Range: On (mono), Off (polyphonic)

**RTRG** controls envelope re-triggering. When activated, every note restarts the envelopes. (*Mono mode only*)
   Range: On, Off

**UNISON** activates a doubling effect which creates a richer sound.
   Range: On, Off

**PORT** determines the glide time (portamento) between notes.
   Range: 0.5 – 2500 ms (0 – 2.5 seconds)

**LEGATO** determines whether glide will always occur, or only when the previous note is still held.
   Range: Legato, Always
Voltage Controlled Filter

The VCF section includes selectable filter slope, frequency and resonance parameters as well as a filter envelope which determines the filter movement on each trigger.

**TYPE** determines the filter type.
  - Range: High Pass, Low Pass, Band Pass, Band Reject

**SLOPE** toggles between two types of pole filters.
  - Range: 2-pole/12 dB per octave, 4-pole/24 dB per octave

**CUTOFF** controls the VCF cutoff frequency.
  - Range: 0 – 100 (20 Hz – 20 kHz)

**RES** controls the amount of filter resonance.
  - Range: 0 – 100

**ENV** determines the envelope’s cutoff modulation depth.
  - Range: -100 – 100

**KBD** controls keyboard tracking using C3 as its reference point.
  - Range: 0 – 100
**FM** controls the amount of frequency modulation on filter cutoff by OSC 1.
Range: 0 – 100

**ADSR** determines the filter’s envelope cutoff behavior after a note is triggered.

A (Attack): 1 – 10,000 (1 millisecond – 10 seconds)
D (Decay): 1 – 10,000 (1 millisecond – 10 seconds)
S (Sustain): 0 to 100% amplitude
R (Release): 1 – 10,000 (1 millisecond – 10 seconds)

**VEL** sets the VCF cutoff in relation to the Note On velocity.
Range: 0 – 100

**SHAPE** determines the contour of the envelope time constants.
Range: -50 – 50

At 0, time constants are linear; at positive values, the envelope slopes become more concave (below, in black), for a punchier response. Negative values result in a more convex slope shape, for smoother response (below, in red.)
Voltage Controlled Amplifier

The VCA envelope controls the note level from trigger to release.

**A** (Attack): 1 – 10,000 (1 millisecond – 10 seconds)

**D** (Decay): 1 – 10,000 (1 millisecond – 10 seconds)

**S** (Sustain): 0 to 100% amplitude

**R** (Release): 1 – 10,000 (1 millisecond – 10 seconds)

**VEL** sets the envelope depth in relation to the Note On velocity.

  Range: 0 – 100

**SHAPE** determines the contour of the envelope time constants.

  Range: -50 – 50

**PUNCH** controls the dynamic transient enhancer which makes for a “snappier” attack.

  Range: On, Off
Low Frequency Oscillators

Element features four LFOs: two free and two synchronized. The free LFOs have a continuous cycle time control, while the synced LFOs are voice-triggered and use musical note values (based on the host BPM) to determine the oscillation rate.

**TYPE** controls the LFO waveform shape.
- Range: Sine, Saw Down, Saw Up, Triangle, Pulse, S&H (random)

**RATE** controls the frequency of the free LFO.
- Range: 0.1 to 100 Hz

**TIME** controls the rate of the synced LFO, locked to the project BPM.
- Range: 4/1, 3/1, 2/1, 1/1, 1/2, 3/8, 1/3, 1/4, 3/16, 1/6, 1/8, 3/32, 1/12, 1/16, 3/64, 1/24, 1/32

**LED** displays pulsate at the same rate as the LFOs.
Envelope 3

In addition to the filter and the VCA envelopes, Element includes an envelope generator that can be freely assigned to selectable destinations via the modulation matrix.

A (Attack): 1 – 10,000 (1 millisecond – 10 seconds)
D (Decay): 1 – 10,000 (1 millisecond – 10 seconds)
S (Sustain): 0 to 100% amplitude
R (Release): 1 – 10,000 (1 millisecond – 10 seconds)

VEL sets the envelope depth in relation to the Note On velocity.
  Range: 0 – 100

SHAPE determines the contour of the envelope time constants.
  Range: -50 – 50
**Modulation Matrix**

The Modulation Matrix allows the patching of modulation sources to selectable destinations.

**PHASE** inverts the phase, per assignment. Depending on the phase setting, this will change the direction of the modulation.

- Range: On, Off

**SRC** determines the modulation source.

- Range: LFO1, LFO2, LFO3, LFO4, Env3, Modwheel, Keyboard, Velocity, Aftertouch, Bender, VCF Envelope, Sequencer

**DEST** determines the destination of the modulation source.

- Range: Global Pitch, Osc1 Pitch, Osc2 Pitch, Osc1 PW, Osc2 PW, Sine Mode, Osc FM, Osc PhM, Osc Mix, Sub, Noise, Ring, Portamento, VCF Cutoff, VCF Res, VCF Env, VCF FM, VCF Env Shape, VCA, VCA Env A, VCA Env D, VCA Env S, VCA Env R, VCA Env Shape, Pan, LFO1 Rate, LFO2 Rate, LFO3 Rate, LFO4 Rate, Env3 A, Env3 D, Env3 S, Env3 R, Env3 Shape, Arp/Seq Rate, Arp/Seq Gate, Mod1, Mod2, Mod3, Mod4, Mod5, Mod6, HP, LP, Distortion, Crusher, Delay Mix, Delay Time, Reverb, Chorus

**MOD** sets the amount by which the modulation source affects the destination.

- Range: 0 to 100%.
Arpeggiator/Sequencer

The ARP / SEQ section functions as both a traditional arpeggiator, and a 16-step sequencer. Each sequencer step has an In/Out toggle as well as a pitch control which may be set +/-24 semitones from the currently held note.

**MODE** determines the operational mode.

**OCT** determines the range, in octaves, of the arpeggiator.
- Range: 1, 2, 3, 4

**TIME** (drop-down) activates the host BPM sync function, and sets the rate using note values.
- Range: Free *(host BPM sync off)*, 1/2, 3/8, 1/3, 1/4, 3/16, 1/6, 1/8, 3/32, 1/12, 1/16, 3/64, 1/24, 1/32

**RATE** sets the arpeggiator rate when TIME is set to Free.
- Range: 1 to 50 Hz

**GATE** determines the length of each sequencer step as a percentage of its note length.
- Range: 5 – 100%

**STEPS** determines the number of steps in the current sequence.
- Range: 1 – 16

**SWING** pushes even-numbered notes/steps toward the next odd-numbered note/step, to create a shuffle/swing feel.
- Range: 0 – 100
**Effects**

**DIST** controls the amount of distortion effect. Distortion is applied per voice, eliminating IMD (inter-modulation distortion.) Settings below 50% create a warm saturated drive effect; settings above 50% result in a more aggressive, “crunchier” sound.

Range: 0 – 100%

**PRE/POST** is a toggle control which determines the placement of the distortion effect in the signal path, either pre-VCF or post-VCF.

Range: Pre, Post

**CRSHR** is a distortion-like effect which simulates a reduction in the bit-depth and resolution of the sound.

Range: 0 – 100

**DELAY** is a stereo delay allows separate delay times for left and right channels, using note values.

- **LEFT** sets the delay time for the left channel.
  Range: 1/2, 3/8, 1/3, 1/4, 3/16, 1/6, 1/8, 3/32, 1/12, 1/16, 3/64, 1/24, 1/32

- **RIGHT** sets the delay time for the right channel.
  Range: 1/2, 3/8, 1/3, 1/4, 3/16, 1/6, 1/8, 3/32, 1/12, 1/16, 3/64, 1/24, 1/32
- **MIX** determines the amount of delay effect in the mix.
  Range: 0 – 100

- **FEEDBACK** determines the amount of gain fed back to the delay input.
  Range: 0 – 100

**REVERB** controls both the amount and size of the virtual plate reverb sound. In addition to increasing the amount of reverb, higher values also increase the reverb size and time.
  Range: 0 – 100

**CHORUS** determines the amount of chorus modulation.
  Range: 0 – 100

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**EQ**

The EQ section is a 4-band fixed frequency graphic equalizer with high pass and low pass filters. At high boost levels, the EQ saturates with different tonal qualities than the Distortion module.

- **HiPASS** controls the high pass filter frequency.
  Range: 20 – 14,000 Hz

- **LoPASS** controls the low pass filter frequency.
  Range: 10 – 20,000 Hz

- **100** controls equalization at 100 Hz.
  Range: -30 – +30 dB
600 controls equalization at 600 Hz.
Range: -20 – +20 dB

1500 controls equalization at 1500 Hz.
Range: -20 – +20 dB

9000 controls equalization at 9000 Hz.
Range: -25 – +25 dB

Global and Out Sections

TEMPO displays the current tempo.
Range: 1 – 300

SOURCE determines the clock source.
Range: Host, Internal

VOICES determines the number of voices which may be played simultaneously.
Range: 1 – 16
**HD** activates High Definition mode, which extends the digital resolution, resulting in enhanced depth and greater high-end definition.

Range: On, Off

*Please note: HD mode increases CPU consumption. Certain types of presets may sound better with HD mode switched off.*

**GAIN** sets Element's overall output volume, after all generators and processors.

Range: -80 – 0 dBFS

**METER** displays Element's overall output energy.
CHAPTER 4 – STANDALONE APPLICATION

The Element standalone application requires ASIO drivers for Windows or Core Audio for Mac OS-X.

Element.exe (Win) or Element.app (MAC) loads the Element instrument and configuration preferences dialogs.

The standalone application’s menu file contains 3 items:

• All Notes Off – Send an All Notes Off MIDI command to the Element synthesizer, useful in cases of “stuck” sustaining notes.
• Preferences – Displays the preferences dialog for Audio, MIDI, and User Choices configurations.
• Exit

THE PREFERENCES DIALOG

The preferences dialog allows configuration of Audio, MIDI, and User Choices.

Audio offers control over the following parameters:

Device displays the audio devices available on the system.

Output Channels allows selection of audio outputs from the selected device.

Sample Rate allows selection of sample rate.

Control Panel (Windows) launches the selected ASIO device’s control panel for selection of buffer size and latency.

Buffer Size (Mac) allows selection of buffer size, which determines latency.

MIDI offers control over the following parameters:

MIDI Input device displays a list of available MIDI input devices on the current system. Select the MIDI device through which to receive MIDI data.

Input Channel - Element standalone is ready to receive MIDI in OMNI mode from all channels. The MIDI channel control allows the selection to receive MIDI input only from certain channels as selected in the checkboxes.

Load Previous Settings

When checked, loads with last used settings; unchecked loads the Default settings.
CHAPTER 5 – THE WAVESYSTEM

5.1 The WaveSystem Toolbar

All Waves plugins feature the WaveSystem toolbar which takes care of most administrative functions you will encounter while working with your Waves software. The features of the WaveSystem toolbar are the same on practically all Waves plugins, so familiarity with its features will be helpful whichever plugin you are using.

Toolbar Functions

- [W] Opens the plugin About box
- Undo Undoes the last 32 actions
- Redo Redoes the last 32 undone actions
- Setup A/B Toggles between two presets, useful for comparison of parameter settings.
- Load Filter An Element-exclusive toolbar which lets you specify whether certain preset characteristics should be loaded. See the next section for details.
- L/R Arrows Move to the previous or next preset
- Copy A→B Copies the current settings to the second preset register
- LoadRecalls presets from file
- Save Saves presets in the Waves file formats
- ? Opens the PDF manual for the plugin you are using
5.2 Preset Handling

Preset Types

**Factory Presets** are permanent presets in the Load menu. Factory presets cannot be overwritten or deleted. When applicable, different component plugins may have different factory presets.

**User Presets** are your favorite settings of the plugin saved as a preset in the Load menu, under ‘User Presets’. User Presets can be overwritten and deleted.

**Setup Files** may contain more than one preset. For example, a single file can contain all the presets for a session. When you open a Setup File, all its setups become part of your Load pop-up menu for fast access. This can be particularly useful with multiple instances of a plugin in a single session. By saving all the settings you create into a single Setup File, they can all be quickly available for every instance of that plugin.

Loading Presets and Setups

Click on the Load button to see the Load pop-up menu. The menu is divided into four sections. If a section is not currently available it will not appear in the Load pop-up menu.

**Open Preset File**… Select to open any setup or preset file, whether from the Library or your own creations.

‘**Filename.xps**’: Displays any currently loaded Setup File and its presets.

**Factory Presets**: Displays the default Factory Presets.

**User Presets**: Displays any loaded User Presets.
Load with Preset – MIDI, Arp/Seq and Tempo

The Load with Preset filter is an Element-exclusive custom toolbar special which lets you choose whether or not to load certain preset characteristics such as MIDI assignments, arpeggiator/sequencer settings and tempo. When checked, these parameters are loaded. Here are some practical examples:

**MIDI** – Let’s say you have assigned a MIDI controller knob to Element’s VCF cutoff. Loading the next preset will reset this parameter; you will then have redo the MIDI Learn routine to attach the knob to the control. However, if you uncheck the MIDI checkbox, the next preset will be loaded, but the current MIDI assignment will remain in place.

**Arp-Seq** – Let’s say you have a bass line arpeggio that you like, and you want to test the pattern using a different sound. Uncheck the Arp/Seq checkbox, and the preset will be loaded without any associated Arp/Seq settings, leaving the pattern as is.

**Tempo** – Let’s say you are working on an arpeggio with an internal tempo of 140. Loading presets may set the tempo to a different value, or to receive from your host. To ignore tempo settings saved with other presets, uncheck the Tempo box, and your current tempo setting will remain when loading other presets.

Saving Presets and Setups

Click on the Save button to see the Save pop-up menu. Four options are available. If an option is not currently available it will be grayed out and inaccessible.
Save to New File…
Select this to start a new Setup file. There are two prompts - first for the setup filename, then for the preset name. You must provide a name for both the setup file and the preset. Click OK (ENTER) to complete the save. It is a good idea to create a folder in which to save several setup files for a project.

Save ‘File Name’ – “Preset Name”
Overwrites the settings of the loaded preset (whether a User Preset or a preset from a Setup File) with the current settings. If a Setup File is currently loaded, the name of the Setup File is displayed followed by the name of the preset itself. If a User Preset is loaded, its name is displayed.

Save to ‘File Name’ As…
Saves the current settings as a new preset into the Setup file that is open (if one is not open, the option is grayed out). You will be prompted to give the preset a name.

Put into Preset Menu As…
Save the current settings into a User Preset that will always be in your Load menu (until deleted). You will be prompted to give this preset a name. User Presets are stored in the plugin’s preference file.

Please note: Special characters (such as: !, @, #, %, ^, etc.) are not supported in preset names.

Deleting Presets

You may delete User Presets and presets within a Setup File. Factory Presets and Setup Library files cannot be deleted or overwritten.

1. Hold the Command (Mac)/Control (PC) key down.
2. Click-and-hold the Load button to see the pop-up menu.
3. While still holding the Command/Control key, select the preset or setup to delete.
4. A confirmation box will appear, allowing you to cancel or ‘OK’ the deletion.
A/B Comparison and Copying

The Setup A/Setup B button may be clicked to compare two settings. If you load a preset in the Setup B position, this will not affect the preset loaded into the Setup A position, and vice-versa.

If you want to slightly modify the settings in Setup A, you can copy them to Setup B by clicking on the Copy to B button, then alter Setup A and compare with the original Setup B.

The name of the current setup will be shown in the title bar (on platforms which support it), and will switch as you change from Setup A to Setup B.

Note: an asterisk will be added to the preset name when a change is made to the preset.

5.3 Interface Controls

Controls can be in one of three states:

- **Not Selected** where the control is not the target of any user entry
- **Selected** where the control is the target of mouse control entry only
- **Selected and Active** where the control is the target for both mouse and keyboard entry

Toggle Buttons

Toggle buttons display the state of a control, and allow switching between two or more states. **Single-click** to change the control’s state. Some toggle buttons have a text
display which updates with the current setting, and others (bypass, solo, or monitoring toggles) illuminate when the control is active.

Some plugins have link buttons between a pair of toggle buttons, allowing click-and-drag adjustment while retaining the offset between the controls.

Value Window Buttons

Value windows display the value of a control and allow click-and-drag adjustment, or direct control via the keyboard.

- **Using the mouse**, click-and-drag on the value window to adjust. Some value windows support left/right, some up/down (as you hover over a button, arrows will appear to let you know which direction of movement that button supports). You may also use your mouse-wheel to adjust parameter values.
- **Using the arrow keys**, click once with mouse to select the button, and then use up/down – left/right (depending on the direction supported by that button) to move in the smallest incremental steps across the button’s range (holding down the arrow keys will move faster through the range).
- **Using key entry**, double click on the button to open the value window, and directly enter the value from your keyboard. If you enter an out of range number, the button stays selected but remains at the current setting (system beeps? If system sounds are on?)

Some plugins have link buttons between a pair of value windows, allowing click-and-drag adjustment while retaining the offset between the controls.
Sliders

Click or scroll the mouse-wheel on the slider itself or anywhere within the sliders track. The numerical value of the slider settings is displayed in a hover window above the slider path.

Hover Box

Hovering boxes will appear and display the control value when hovering with the mouse over the control.

Multiple Control Selection

One of the most powerful features of the WaveSystem is the ability to select and adjust multiple controls simultaneously. Using the mouse, drag-select the desired group of buttons or graphic controls by clicking and holding at a point outside the controls, and forming a rectangle that includes the controls you wish to adjust. Alternatively, press and hold Shift while clicking the mouse on any control you wish to link. This method is useful when you want to select two or more controls that are not adjacent to one another.

TAB Functions

TAB moves the ‘selected’ status to the next control, with shift-TAB moving in the reverse direction.

Additionally, the Mac has an option-TAB function for ‘down’ movement and shift-option-TAB for ‘up’ movement where applicable.

If you have several Value Window Buttons selected, TAB functions will take you through the selected controls only.

Hitting Esc or Return will return the ‘focus’ to the DAW application.
5.4 Waves Preferences (Pro Tools only)

When launching Pro Tools, hold Shift to view the Waves plugin Preferences window. The following options are available:

- Don't use AudioSuite plugins
- Don't use RTAS plugins
- Rescan all plugins
- HUI control surface support (low resolution)
- Enable single-click text entry