V-Control

Version 1.2
User's Guide

www.neyrinck.com

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Welcome to V-Control

V-Control Pro is an iPad app that provides a virtual multi-touch control surface for Digital Audio Workstation (DAW) software applications including Pro Tools®, Logic®, and Cubase/Nuendo®. V-Control acts as a multi-touch control surface, allowing the user to access transport, editing and mixing functions on both Macintosh OS X and Microsoft Windows systems. In tandem with your iPad, V-Control's portability, small footprint, and ease-of-use provide a powerful addition for the user.

Features

V-Control offers the following features (feature set varies by specific DAW)

- Edit send volume, pan, mute, and pre/post controls

- Flip mode send editing

- Automation mode select and display for each channel

- Automation write enable/disable for volume, pan, mute, send volume, send mute, and plug-ins

- Input, Output, and Insert assignments

- Plug-In editing

- Scrub and shuttle control

- Auditioning pre-roll, in, out, and post-roll

- Navigation/Zoom/Select switch quadrant

- Transport online/offline control

- Channel select control and display

- Automation and group status display

- Automation and Group suspend control

- Window select controls for edit, mix, locations, transport, setup, and plug-in

- Locations 1-8 hot keys

- Edit tool select buttons

- Zoom preset buttons

- Edit command buttons

Quick Start

Setting up V-Control for use with your DAW

- Launch the Ney-Fi wireless hosting application on your Mac or Windows system (See details below on installing Ney-Fi). Ney-Fi must be running in order for the V-Control app on the iPad to communicate with the DAW running on your computer.

- Configure the connections in your specific DAW as per the instructions in the appropriate section of the user's manual.

- Within the V-Control app itself, select the gear icon button to display the settings window.

    o In this window's "Computer Picker" section, select the target computer you wish to connect to.

    o In this window's "DAW" section, select the specific DAW you wish to connect to.

- Enjoy!

Using V-Control

V-Control's Interface consists of four main areas:

- The channel strip interface that displays eight channels of the DAW at a time

- A vertical row of buttons on the right hand side of the screen, offering various functions and shortcuts

- A horizontal row of controls on the bottom of the screen, offering mainly transport commands and a time counter

- Various popup windows for additional functions

Setting Up a Local Network with Wi-Fi

V-Control uses the iPad's Wi-Fi capabilities to communicate with your DAW. Please make sure the DAW computer and the iPad are connected to the same local area network (LAN).

While you can get very good performance when wirelessly connected to your host computer, you can achieve the highest levels of performance when the host computer uses a "hard-wired" Ethernet connection to your local network, or if a computer-to-computer network is set up on the computer for a direct Wi-Fi connection between the iPad and computer. You may want to do this if you want V-Control to perform as accurately and responsively as possible, especially when performing mix moves like mutes.

For information on setting up a computer-to-computer network, see "Creating a computer-to-computer network in Mac Help. For Windows, look online for information about creating an "ad-hoc" windows network.

Installing Ney-Fi

Ney-Fi is a free utility that must be installed and run on your DAW computer. Ney-Fi creates a virtual software MIDI port for the DAW software to communicate with V-Control over your network, so it must be running for V-Control to detect the DAW system.

Follow these instructions to install Ney-Fi:

- Quit the DAW software if it is currently running.

- Download the appropriate OS X or Windows Ney-Fi installer at www.neyrinck.com/downloads

- Run the installer

    - Windows Installer: Launch the "Ney-Fi Setup.exe" application to install the Ney-Fi app, MIDI driver and runtime libraries. The runtime libraries installer is a separate installer that you will need to authorize. Make sure to also install Bonjour if it is not already installed.

    - Mac Installer: Drag the downloaded Ney-Fi icon to your applications folder.

- Connect your computer to your chosen local network.

- Launch Ney-Fi

- Windows: Launch Ney-Fi from the program list in the Ney-Fi section.

- Mac: Launch Ney-Fi from the applications folder

Ney-Fi is a simple "menu-bar only application" on the Mac and a "system tray application" on Windows, thus there is nothing for you to configure on either operating system.

General Troubleshooting

- Verify the iPad and target DAW computer are connected to the same local area network.

- Verify that the Ney-Fi utility is running on your host DAW computer. On Mac OS X Ney-Fi operates as a menu bar application. On Windows Ney-Fi operates as a system tray utility

- Verify that V-Control sees the DAW computer on the network by touching the gear icon to display the Setup window. Look at the computer picker to verify that your computer is both listed and selected

- Verify that you have selected V-Control as the MIDI input and output source in the control surface setup window of your DAW.

- Verify that Bonjour is installed on your Windows systems.

- Verify that firewall blocking is disabled for Ney-Fi.

Using V-Control with Pro Tools

Setting up V-Control as a Control Surface in Pro Tools

To set up V-Control for use with Pro Tools, perform the following steps:

- Launch the Ney-Fi application

- In Pro Tools, select Setup > MIDI > Input Devices.

- Enable the V-Control and both V-panner MIDI inputs by selecting their respective check boxes.

- Select the Peripherals dialog from the Setup menu.

- Select the MIDI Controllers tab, and then set up the following three controllers:

    - For Controller #1, select type "HUI" and then select "V-Control" as both the "receive from" and "send to" choices. Select "8" for the "# of channels" field.

    - For controller #2, select type "SurroundPan" and then select "V-Pan 1" as both the "receive from" and "send to" choices. Select "0" for the "# of channels" field.

    - For controller #3, select type "SurroundPan" and then select "V-Pan 2" as both the "receive from" and "send to" choices. Select "0" for the "# of channels" field.

- The above steps are a one-time process and do not need to be repeated again.

- Close and re-open V-Control on the iPad. If everything is set up correctly, the computer running Ney-Fi will be available to choose from in the computer picker in the settings window. V-Control and Pro Tools should now have complete bi-directional control of each other.

Important Windows Information for Pro Tools 9

Running as Administrator: Pro Tools 9 must be run as administrator to work with V-Control. This is due to a Pro Tools 9 bug where it won't send MIDI out the V-Control MIDI node without running as Administrator.

Bonjour: Ney-Fi uses Bonjour to locate V-Control and the iPad on your network. Separate installers for Bonjour are provided if you need to install it. If you don't know if it is installed, launch the installer and if it gives you an option to repair or remove, that means it is already installed.

Channel Strip Interface

The channel strip interface is the area that allows adjusting levels and panning, adjusting sends, and working with mute and solo controls. It contains the following controls from top to bottom:

Channel Name: V-Control will automatically display the name of your Pro Tools track at the top of the channel, in an abbreviated form

Channel Select: Touch the scribble strip at the top of channel to select a channel. Use the modifier buttons to manage selection and operations on multiple channels.

Fader: Touch the fader and drag it up and down to adjust the signal level of the channel. Since the iPad uses a multi-touch interface, multiple faders can be adjusted at once just like on a real hardware mixer.

Bank Increment/Decrement: Using two fingers, touch the surface in the fader area away from a fader cap and swipe left or right. Each swipe will bank left or right eight channels.

Channel Increment/Decrement: Using one finger, touch the surface in the fader area away from a fader cap and drag left or right. Each swipe will bank left or right one channel at a time.

Keep your finger down and keep dragging to increment more than one channel.

Level Meter: The channel strip contains a multi-segment meter display that displays the signal level of the channel's audio.

Clear Peaks: Touch the peak indicator on any given meter to clear its red peak (overload) indicator.

Solo: Touch the solo button to solo the channel. Press it again to turn off solo.

Mute: Touch the mute bottom to mute the channel. Press it again to unmute the channel.

Record: Touch the record button to record-arm the channel. Press it again to record-safe the channel.

Insert / Plug-In Editing: Touch the INS button of a channel to display the insert/plug-in display, where you can adjust parameters of plug-ins inserted on the channel. For more information, see the section titled "Insert/Plug-In Editing Popup Window".

Automation Mode: Touch the "A" button of a channel to display the automation mode popup window, which allows selection of the following different automation modes:

- Off**:** Turns automation for the channel off

- Read: Switches the channel to automation "read" mode.

- Touch: Switches the channel to automation "touch" mode.

- Latch: Switches the channel to automation "latch" mode.

- Write: Switches the channel to automation "write" mode.

- Trim: Switches the channel to automation "trim" mode.

- Status: Display the current automation mode status of the selected channel

Rotary Encoders: These virtual knobs allow you to adjust both channel panning as well as send levels A-E for the relevant Pro Tools channel, when used in conjunction with the "Pan" and "A-E" buttons on the right hand side.

To adjust the rotary encoder, touch the encoder and swipe using an up-down or side-to side motion.

The rotary encoders operate as follows, when used to adjust stereo panning:

- Touch the Pan button again to switch between the Left and Right pan controls, when working with a stereo track (the Pan button blinks when the right panner is active).

The rotary encoders operate as follows, when used to adjust channel auxiliary sends

- Touch buttons A, B, C, D, or E to select which of the five aux sends in Pro Tools to adjust

- Tap the center of the rotary control to toggle the send between pre-fader and post fader status (V-Control Pro only).

- A mute button is also present below the sends. When this button is toggled on, tapping the center of the encoder will mute the send, as opposed to toggling its pre/post status.

Right-Hand Side Controls

The buttons on the right hand side of the screen control various additional functions, and work as follows:

Pan: Touch this button to switch the rotary encoders to panning mode, allowing the user to adjust L-R panning of each channel by swiping the onscreen v-pot.

A-E: Touch any of these 5 buttons to switch the V-pots to auxiliary send controls for sends A-E.

Flip: Touch this button to reverse the functionality of the channel faders and the rotary encoders, allowing you to adjust aux sends using the faders.

When flip mode is active, the channel mute button acts as a send mute.

Surround Pan: Touch this button to toggle on/off the Surround Panner popup window. See the section titled "Surround Panner Popup Window" for further details.

Window: Touch this button to toggle the Pro Tools interface on the computer between its two main interface screens: "Edit" and "Mix"

Record: Touch this button to put all channels into record arm mode.

Auto Input: Touch this button to toggle Pro Tools in an out of "auto-input" mode

Group Suspend: Touch this button to suspend all track groups that have been created. Touching the button again will resume the normal grouping function.

Auto Suspend: Touch this button to suspend all automation that has been written to the session. Touch the button again to switch the automation back on.

Edit: Touch this button to toggle the V-control edit popup window on/off. See the section titled "Edit Keys Popup Window" for further details.

Keypad: Touch this button to toggle the V-control keypad popup window on/off. See the section titled "Keypad Popup Window" for further details.

Mark In: Touch this button to set a mark in point at the current location of the playback head.

Mark Out: Touch this button to set a mark out point at the current location of the playback head.

Save: Touch this button to save the current session.

Undo: Touch this button to undo the last performed action of the session.

Escape: Touch this key to cancel out any onscreen dialog, similar to pressing the escape key on a computer keyboard.

Bottom of Screen Controls

The buttons on the bottom of the screen offer various transport related controls, as the settings page button and the modifier keys popup window. The controls work as follows:

Modifiers: Touch this button to toggle the modifiers key popup window on/off. See the section titled "Modifiers Popup Window" for further details.

Settings: Touch this button to bring up the settings screen. Touch the button again to return to the main interface.

Banking Popup Window: Touch this button to bring up the banking popup window, which contains 4 buttons that allow banking the displayed channels left or right, either 1 or 8 channels at a time.

These buttons serve as an alternate interface for bank/channel increment/decrement, for users who prefer this method over the one-finger/two-finger swiping method described above.

Time counter: This display reflects the ongoing session time counter from Pro Tools. It can display the session counter as SMPTE, minutes/seconds, or bars and beats, as selected in the Pro Tools session.

Big Counter Display: Touch the left area of the counter display to show or hide the big counter, which will show the scrolling time value at a much larger size. Note that you can still touch the faders with this display active.

Touch the same spot on the counter again to close the big counter window.

Pre-Roll: Touch the pre-roll area of the counter to toggle the Pro Tools pre-roll function on when playing or recording. Touch the pre-roll area again to turn pre-roll off.

Post Roll: Pressing the post-roll area of the counter to toggle the Pro Tools post-roll function on when playing or recording. Touch the post-roll area again to turn post-roll off.

Online: Touch this button to toggle the Pro Tools session's online (chase) status on/off.

Return to Zero: Touch this button to move the playback cursor to the start point of the project.

Rewind: Touch this button to move the playback cursor backwards within project

Fast Forward: Touch this button to move the playback cursor forwards within the project.

End: Touch this button to move the playback cursor to the end point of the project.

Stop: Touch this button to stop the transport of the current session.

Play: Touch this button to start playback of the current session.

Record: Touch this button to begin recording in the current session.

Transport Popup Window

The buttons in the transport popup window offer additional transport related commands, and work as follows:

Loop: Touch this button to toggle the transport's loop function on/off. The button illuminates when the loop function is active.

Quick Punch: Touch this button to toggle the quick-punch function on/off, which allows for real-time punching in the Pro Tools software. The button illuminates when the quick punch function is active.

Edit Keys Popup Window

Touch the Edit button to display the edit popover. The edit keys popup provides many different functions and includes the following groups of controls.

I/O Controls:

Input: Touch this button to temporarily have the channel displays to show the currently assigned hardware input feeding each channel.

Output: Touch this button to temporarily have the channel displays to show the currently assigned hardware output fed by each channel.

Assign: Touch this button to use each channel's rotary control to assign an input or output to the appropriate channel.

Group Controls:

Status: Touch this button to show the group status for each channel, in its channel display.

Create: Touch this button to create a group from any currently selected channels.

Memory Locations

1-8: Touch any of the buttons 1-8 to quickly navigate to the respective memory location.

Create: Touch the create button, in conjunction with one of the 8 buttons, to create a new memory location from the current play head position, and assign it to that number.

Window

Edit: Touch this button to switch the Pro Tools main interface to the edit window.

Mix: Touch this button to switch the Pro Tools main interface to the mix window.

Memory: Touch this button to toggle the Pro Tools memory (locators) window on/off.

Transport: Touch this button to toggle the Pro Tools transport window on/off.

Ins/pl: Touch this button to toggle the Pro Tools "insert in place" function on/off.

Setup: Touch this button to toggle the Pro Tools session setup window on/off.

Auto Write

Vol: Touch this button to toggle the channel volume automation parameter on/off when any channels are in automation write mode.

Pan: Touch this button to toggle the channel pan automation parameter on/off when any channels are in automation write mode.

Send Vol: Touch this button to toggle the channel send volume automation parameter on/off when any channels are in automation write mode.

Plug-in: Touch this button to toggle the channel plug-in automation parameter on/off when any channels are in automation write mode.

Mute: Touch this button to toggle the channel mute automation parameter on/off when any channels are in automation write mode.

Send-mute: Touch this button to toggle the send-mute automation parameter on/off when any channels are in automation write mode.

Mode

Shuffle: Touch this button to switch the Pro Tools editing grid to "shuffle" mode.

Spot: Touch this button to switch the Pro Tools editing grid to "spot" mode.

Slip: Touch this button to switch the Pro Tools editing grid to "slip" mode.

Grid: Touch this button to switch the Pro Tools editing grid to "grid" mode.

Zoom Preset

Store: Touch this button to store the current zoom settings into a zoom preset, when used in conjunction with one of the 1-4 buttons.

Recall: Touch this button to recall one of the four stored zoom settings, when used in conjunction with one of the 1-4 buttons.

1-4: Used in conjunction with the store and recall buttons, as described above.

Tool

Trim: Switches the computer cursor to the "trim" tool.

Zoom: Switches the computer cursor to the "zoom" tool.

Select: Switches the computer cursor to the "select" tool.

Scrub: Switches the computer cursor to the "scrub" tool.

Grab: Switches the computer cursor to the "grab" tool.

Pencil: Switches the computer cursor to the "pencil" tool.

Command

Capture: Touch this button to issue the "capture" command in Pro Tools

Separate: Touch this button to issue the "separate" command in Pro Tools, dividing the selected audio clip into two separate ones at the current location of the play head.

Cut: Touch this button to cut the currently selected audio clip, removing it from the session but also copying it into the copy buffer memory.

Copy: Touch this button to copy the currently selected audio clip into the copy buffer memory.

Paste: Touch this button to paste the audio clip currently residing into the memory buffer, into the session at the current location of the play head.

Delete: Touch this button to delete the currently selected audio clip, removing it from the session.

Navigation

Scrub/Shuttle Strip: Swiping this strip moves the play head back and forth within the session

Scrub Button: Touch this button to switch the scrub/shuttle strip into "scrub" mode, resulting in audio playing back as long as the strip is manipulated with one's finger.

Shuttle Button: Touch this button to switch the scrub/shuttle strip into "shuttle" mode, resulting in audio playing back as long as the strip is manipulated with one's finger.

Audition: Touch this button to perform the "audition" function on a selected audio clip.

Cursor Diamond:

Nav/Zoom/Select: Touch this button to toggle the use of the cursor diamond between:

- Zoom Mode: In this mode, the cursor up/down keys adjust the waveform height of the tracks, while the cursor left/right keys adjust the zoom level of the edit timeline.

- Nav Mode: In this mode, the cursor up/down keys allow you to select a track, while the cursor left/right keys allow selection of audio regions within a track

Modifiers Popup Window

This popup offers several modifier keys (duplicating the modifier keys found on a standard computer keyboard). These keys provide variant functions when used in conjunction with other commands.

- Touch the modifiers button at the lower left side of the app to display the modifier keys popup window.

- Touch each modifier key you want to be active; the modifier keys will hold their current state so you don't have to keep a finger on them while you're using them.

- All modifier keys will be deactivated when you close the modifier buttons display.

- The four modifier keys behave the same way as when used from a computer keyboard within Pro Tools:

    o "Shift" emulates the Shift key on a computer keyboard

    o "Control" emulates the Control key on a computer keyboard

    o "Option" emulates the Option key on a computer keyboard

    o "Command" emulates the Command key on a computer keyboard

- Pressing the "default" key disengages any previously activated modifier keys.

Keypad Popup Window

The keypad popover provides a numeric keypad that provides many control features for Pro Tools, and works as follows:

Note that Pro Tools must be the foreground app on the computer, and will not receive the keypad commands if it is in the background.

Clear: Touch this button to clear any previously entered values from the counter window.

= (Capture Time Code): Touch this button to capture the value of any time code currently entering the session and enters it into the session's time code window.

/ (Enter Start/End Length): Touch this button in conjunction with the numbers keys to assign a start and end time to the session.

* (Enter Main Counter): Touch this button in conjunction with the number keys to enter a time code value into the main session counter window.

- (Nudge Back): Touch this button to nudge a selected audio clip backwards in time by the assigned nudge value

+ (Nudge Forward): Touch this button to nudge a selected audio clip forwards in time by the assigned nudge value

Enter (Create Memory Location): Touch this button to create a new memory location at the current location of the play head.

1 (Rewind): Touch this button to move the playback cursor backwards within the project.

2 (Fast-Forward): Touch this button to move the playback cursor forwards within the project.

3 (Record): Touch this button to begin recording in the current session.

4 (Loop Playback): Touch this button to toggle the loop playback function on/off

5 (Loop Record): Touch this button to toggle the loop record function on/off

6 (Quick Punch): Touch this button to toggle the Pro Tools "Quick Punch" function on/off, allowing you to perform live recording punches in the session.

7 (Metronome): Touch this button to toggle the audible metronome on/off.

8 (Count-Off): Touch this button to toggle the count-off function on/off.

9 (Merge/Replace): Touch this button to toggle the Pro Tools merge/replace function on/off.

Surround Pan Popup Window

The surround pan window allows you to control surround panning of a track, when Pro Tools is set up with a surround-mixer (as opposed to stereo). This window contains the following controls:

Surround Panner Screen: This screen shows the current position of the track within the surround sound field.

Two surround panner screens are shown in the popup, in total. This allows you to:

- Adjust the panning of both sides of a stereo track

- Adjust the panning of two mono tracks, simultaneously

Each panner window has its own set of independent controls allowing them to work as two completely separate panning modules.

Pan-Position Screen: Touch and drag a path in this display to control the surround pan position of the audio track within the surround panning field. This touchscreen area emulates the hardware panner joystick on a Pro Tools surround panner.

Note that due to the limitations of the emulation, the screen will not show any indication of the current position of the audio within the sound field.

Cursor Left Button: Touch this button to move panner focus to the track above (if the Pro Tools Edit window is active) or on the left (if the Pro Tools Mix window is active).

Cursor Right Button: Touch this button to move panner focus to the track below (if the Pro Tools Edit window is active) or on the right (if the Pro Tools Mix window is active).

Cursor Up Button: Touch this button to step upwards through the main output, and send panners on the focused track (so that you can select a panner to control).

Cursor Down Button: Touch this button to step downwards through the main output, and send panners on the focused track (so that you can select a panner to control). Down

Window Button: Touch this button to toggle on/off the panner window of the targeted main output or send in your Pro Tools session

Right Button: Touch this button to toggle focus between panners on a stereo track, allowing you to choose between surround panning of the left or right side of the track, in a single surround pan screen.

Insert/Plug-In Editing Popup Window

The insert/plug-in editing window allows you to adjust parameters of an inserted plug-in. It contains the following displays and controls:

Rotary Controls: These four controls perform two separate functions:

- Selects a specific plug-in to assign to an insert slot

- Adjust parameter values for an assigned plug-in

Parameter Displays: These four display slots show the currently assigned plug-ins and plug-in parameters

When working with the parameter displays, use your finger to swipe the LCD text display, in a left or right direction, to move between additional control pages.

Assign: Touch this button to assign a plug-in to the relevant channel.

Ins/Params: Touch this button to toggle the parameter display between two functions:

- Insert Mode: The display shows what plug-ins are assigned to a particular insert

- Parameter Mode: The display show the parameters available to a selected plug-in, allowing them to be adjusted with the rotary controls

Window: Touch this button to toggle the GUI window on/off for the selected plug-in.

Bypass: Touch this button to bypass all inserts on the relevant channels.

Compare: Touch this button to toggle between the last adjusted parameter and the previous setting, allowing an A/B comparison of a parameter adjustment.

Known Issues with V-Control 1.2 and Pro Tools

- The "Create Location" button in V-Control Pro will not operate correctly if Pro Tools has the setting "Use Separate Play and Stop Keys" enabled. You may instead use the keypad to create e memory location by typing period and enter.

- The "Grab Tool" button in V-Control Pro will only cycle you through the Separation and Object Grab tools. You must select the Time Grab Tool directly in Pro Tools.

- The Zoom Preset buttons 1-4 will not operate correct unless you press Recall or Store before you select them.

- Loop Record mode is not indicated. The HUI protocol that V-Control uses does not provide the ability to display it but does allow it to be switched using the keypad.

- Pro Tools must be in the foreground to receive commands via the Keypad popover.

- Pro Tools must be in the foreground to use the zoom presets, memory locations, tool select, edit mode select features in the Edit popover. (V-Control Pro only)

Using V-Control with Cubase/Nuendo

Setting up V-Control as a Control Surface in Cubase/Nuendo

To use V-Control with the Macintosh OS X or Windows versions of Cubase or Nuendo, perform the following steps:

- Launch the Ney-Fi application

- Launch the V-Control app on your Ipad

- In the settings screen of V-Control, select the "computer" tab and then select the computer that Cubase is running on

- In the "DAW" tab, select "Cubase"

- Launch Cubase on your computer

- In Cubase, select "Controllers" in the windows menu

- Follow the steps outlined in Cubase's documentation for adding a Mackie HUI control surface. V-Control works with Cubase/Nuendo by emulating certain elements of the HUI hardware in software form.

- When selecting MIDI input and output ports for the HUI, in the Cubase/Nuendo Window, select "V-Control" as the MIDI source and destination.

- Close the Cubase controllers window

- V-Control and Cubase/Nuendo should now have complete bi-directional control with each other. Verify operation by adjusting the faders and transport controls in both the V-Control app and the Cubase/Nuendo software. Actions performed in the Cubase/Nuendo software and V-Control should be reflected in the other.

Channel Strip Interface

The channel strip interface is the area that allows adjusting levels and panning, adjusting sends, and working with mute and solo controls. It contains the following controls from top to bottom:

Channel Name Display: This display at the top of each channel displays the name of the channel, matching the channel name in the DAW software itself.

Channel Select: Touch the track name at the top of a channel to select that channel. The selected channel changes to light grey to show it has been selected.

Panning/Aux Level Controls: These controls allow you to adjust both channel panning as well as send levels 1-8 for the channel. Their specific function is selected using the "Pan", "1-4", and "-5-" buttons on the right hand side of the V-Control interface.

The level controls work as follows, when used to adjust stereo panning:

- Touch the pan button, on the right hand side of V-Control. The horizontal swiping motion now controls panning for each channel.

- A vertical blue line will indicate the current panning position.

The level controls work as follows, when used to adjust channel auxiliary sends

- To adjust one of the first four aux sends, touch one of the buttons 1-4, on the right hand side of V-Control.

- To control aux sends 5-8, touch the -5- button repeatedly, it will scroll through values 5, 6, 7, and 8, allowing you to select any of those aux sends.

- Swipe the level controls in to increase/decrease the level of the selected aux send

- Tap the center of the control to toggle the send on/off, allowing for quick and easy bypassing of the channel aux send. The send bypass function can also be controlled by the "send bypass" button further down on the channel strip.

Mute (M): Touch the mute bottom to mute the channel. Press it again to unmute the channel.

Solo (S): Touch the solo button to solo the channel. Press it again to turn un-solo the channel.

Record (R): Touch the record button to record-arm the channel. Press it again to record-safe the channel.

Fader: Touch the fader and drag it up and down to adjust the signal level of the channel. Since the iPad uses a multi-touch interface, multiple faders can be adjusted at once just like on a real hardware mixer.

Level Meter: The channel strip contains a detailed level meter display that displays the signal level of the channel's audio.

Bank Increment/Decrement: Using two fingers, swipe the surface in the fader area (but not in the area of a fader cap) in a left or right motion. Each swipe will bank left or right eight channels at a time.

Channel Increment/Decrement: Using one finger, touch the surface in the fader area (but not in the area of a fader cap) and drag in a left or right motion. Each swipe will bank left or right one channel at a time.

Keep your finger down and keep dragging to increment more than one channel.

Automation Arm (Displayed as an "R" or "W"): Touch this control to arm/disarm automation for the channel, whether it is currently set to read or write mode.

Insert Bypass: Touch this control to bypass the inserts of the relevant channel. The button will illuminate when the channel inserts are bypassed.

Channel Popup Window: Touch this button to bring a popup window that allows editing of various channel functions, including:

- Channel EQ

- Channel Sends

- Channel I/O Routing

- Channel Inserts

Touch the button again to close the window.

For more information, refer to the section titled "Channel Popup Window".

Sends Bypass/Sends Pre-Post Button: This dual-purpose button covers one of two functions at any given time, depending on the state of the "Pre/Post" button located on the right hand side of the V-Control interface.

- **Sends Bypass**: In this mode, touch the button to bypass the sends for the currently selected channel and aux send. The button will illuminate when the selected is bypassed. Touch the button again to stop bypassing the send. Note that this icon is not present if the level controls are currently set to control panning.

- **Pre/Post Button**: In this mode, touch the button to toggle the currently selected aux send to pre-fader or post-fader status. The button illuminates an orange color when the aux is configured as pre-fader.

Input Monitor (Speaker Icon): Touch the small speaker icon at the bottom of the channel strip to turn on input monitoring for the channel. Touch it again to turn the input monitoring off. The button illuminates when input monitoring is turned on.

Record: Press the record button to record-arm the channel. Press it again to record-safe the channel.

Right-Hand Side Controls

The buttons on the right hand side of the iPad screen control various additional functions, and work as follows:

Pan: Touch this button to switch the channel pan/aux controls to panning mode.

1-4: Touch any of these 4 buttons puts to switch the channel pan/aux controls into auxiliary send control for sends 1-4

-5-: Touch this button to cycle through controlling aux sends 5, 6, 7, and 8. The display will change to show which aux send is currently being controlled by the channel level controls.

Pre/Post: Touch this button to toggle the channel send button between two different functions:

- Pre/Post: In this mode, the master pre/post button is lit orange and the channel sends buttons toggle each channel's send between pre-fader and post-fader status, for the currently selected aux send.

- Send Bypass: In this mode, the master pre/post button is not illuminated, and the channel send buttons act as a bypass control for the currently selected aux send.

Automation On/Off |R|: Touch this button to toggle automation on/off for all channels in the current session. The button illuminates to show when automation for all channels is armed.

Automation Read/Write ("R" or "W"): Touch this button to toggle the function of the individual channel automation buttons.

- o When the automation read/write button displays as R, then the individual channel automation buttons is set to R, the automation read status can be toggled on/off on a per-channel basis.

o When the automation read/write button displays as R, then the individual channel automation buttons is set to W, and automation write status can be toggled on/off on a per-channel basis.

Clear Mutes |M|: Touch this button to unmute any and all channels that are currently muted.

Clear Solos |S|: Touch this button to un-solo any and all channels that are currently soloed.

Mixer: Touch this button to toggle the Cubase session between its mixer and edit windows.

Soft Keys 1 and 2: These buttons can be custom-configured to perform many different assignable functions with Cubase/Nuendo. To configure the soft keys:

- Within Cubase/Nuendo, select the "devices" menu, then select "device setup"

- In the "Remote Devices" column on the left, select "Mackie HUI"

- On the right hand side, you will see a column labeled "button" with two entries "Audition" (which corresponds to Soft Key 1) and "Window/A" (which corresponds to Soft Key 2.

- Click on the "category" and "command" columns to select among the available Cubase/Nuendo functions

- Click "apply" and then "OK"

- The two soft keys will now control the two functions you have assigned.

Edit: Touch this button to bring up the V-control Edit Keys popup window. See the section titled "Edit Keys Popup Window" for more details.

Locate: Press thus button to toggle the Locator Window On/Off. See the section titled "Locator Popup Window" for more details.

Set Left: Touch this button to set a mark in point at the current location of the play head.

Set Right: Touch this button to set a mark out point at the current location of the play head.

Save: Touch this button to save the current session.

Undo: Touch this button to undo the last performed action of the session.

Bottom of Screen Controls

The buttons on the bottom of the V-Control interface work as follows:

Settings: Touch this button to bring up the V-Control settings screen. Touch it again to return to the main interface.

Banking Popup Window: Touch this button to bring up the banking popup window, which contains 4 buttons that allow banking the displayed channels left or right, either 1 or 8 channels at a time.

These buttons serve as an alternate interface for bank/channel increment/decrement, for users who prefer this method to the one-finger/two-finger swiping method described above.

Time counter: This counter displays the current time location in Cubase/Nuendo, mirroring the time format currently used in the application's counter window.

Big Counter Display: Touch the left area of the counter display to show or hide the "Big Counter", which displays the counter at a much larger size. Touch the left area of the counter to hide the Big Counter display.

Note that you can still touch the faders with the big counter display active.

Transport Popup Window: Touch the right-hand side of the counter to toggle the transport popup window on/off, which offers additional transport related controls.

See section entitled "Transport Popup Window" for more details.

Go to Left (L<): Touch this button to move the play head to the current mark in point of the session.

Go to Right (R>): Touch this button to move the play head to the current mark out point of the session.

Go to Start (|<): Touch this button to move the play head to the very start of the current session.

Go to End (>|): Touch this button to move the play head to the very end of the current session.

Rewind: Press and hold the button to rewind the play head.

Fast Forward: Press and hold the button to fast-forward the play head.

Loop: Touch this button to toggle the transport loop function on/off. The button illuminates when the loop function is active.

Stop: Touch this button to stop the transport of the current session.

Play: Touch this button to start playback of the current session.

Record: Touch this button to punch-in to record, in the current session. The button illuminates in red when recording is active. Touch the play button to punch out of record.

Transport Popup Window

The transport popup window provides additional transport-related controls, and works as follows:

Auto Punch: Touch this button to toggle the "auto punch-in" function on/off. The button illuminates when the auto-punch function is active.

Edit Keys Popup Window

The edit keys popup window provides a large variety of additional controls, with its contents divided up into different sections. The buttons in the Edit Keys Popup window work as follows:

Command Section**:** This section contains various editing commands

Cut: Touch this button to cut the currently selected audio clip, removing it from the session but also copying it into the copy buffer memory.

Copy: Touch this button to copy the currently selected audio clip into the copy buffer memory.

Paste: Touch this button to paste the audio clip that is currently residing into the memory buffer into the session at the current location of the play head.

Delete: Touch this button to delete the currently selected audio clip, removing it from the session.

Window Section**:** This section contains buttons for toggling various Cubase windows on/off.

Marker: Touch this button to toggle the markers window on/off.

Transport: Touch this button to toggle the session's transport window on/off.

CPU: Touch this button to toggle the session CPU percentage window on/off.

Navigation Section**:** This section contains buttons for navigating among the session as well as changing zoom levels.

Jog/Scrub Strip: Swipe this strip with in a left or right motion to move the play head along the timeline.

Scrub Button: Touch this button to put the scrip into "scrub" mode. The scrub button illuminates and the jog strip now audibly scrubs the audio as a finger is swiped along the strip. Press the scrub button again to put the strip back into normal jog mode.

Shuttle Button: Touch this button to put the scrip into "shuttle" mode. The jog strip now works like a shuttle wheel, with the play head moving on its own after the strip has been used to give it momentum.

Press the shuttle button again to put the strip back into normal jog mode.

Cursor Diamond: The cursor diamond works in two modes: "Select" and "Zoom":

Select Mode: In this mode, the cursor center key is not illuminated, and the cursor keys work as follows:

- The cursor up/down buttons navigate which channel is selected

- The cursor left/right buttons navigate among the selected channel's audio clips, selecting each clip in series as the cursor buttons are pressed.

Zoom Mode: In this mode, the cursor center key is illuminated green, and the cursor keys work as follows:

- The cursor up/down buttons zoom the height of the session tracks to be taller/shorter

- The cursor left/right buttons zoom the height of the session tracks to be taller/shorter.

Locator Popup Window

The locator popover provides a numeric keypad that provides many control features for Cubase/Nuendo, and works as follows:

- Use the number buttons to enter a numerical value for a desired location, and then press the **Set Position** button to go to location.

- Enter a number and then press **Move Back (+)** to move the current location back by that amount.

- Enter a number and then press **Move Forward (-)** to move the current location forward by that amount.

Delete Last Char (Clear): Touch this button to delete the current marker in the logic session

Set Position (Enter): Touch this button after first pressing 0 (go to marker), then a value of 1-9. By pressing enter, they complete the marker selection sequence and the play head switches to the entered marker location.

0: The numerical 0 key acts as a "go to marker" command, thus pressing this button primes the keypad for entry of a value between 1 and 9.

By pressing the "go to marker" button, then a value of 1-9, and finally the "enter" button, the user can quickly navigate to any of the first nine marker locations.

Channel Popup Window

This popup window appears when the user presses the diamond-shaped symbol located on the channel strip. It allows adjustment of various channel functions including:

- Channel EQ

- Channel Sends

- Channel I/O Routing

- Channel Inserts

The popup window contains the following controls that work as follows:

EQ button: Touch this button to adjust the 4-band, stock Cubase/Nuendo channel EQ

Sends Button: Touch this button to adjust the channel sends

Routing Button: Touch this button to select the audio input sources and audio output destinations for the selected channel, on your audio interface.

Insert Button: Touch this button to insert effects on the selected channel and adjust their parameters.

Adjusting EQ: When the popup window's "EQ" button is pressed, the popup window displays "EQ+" in the upper left hand corner, and the window works as follows:

Band Selection: Swipe the top of the popup window to select among the 4 bands of EQ that can be adjusted. Each band of EQ has its own page of controls, as follows:

Page 1: Low Band

Page 2: Low-Mid Band

Page 3: High-Mid Band

Page 4: High Band

Gain: Rotate this control to adjust the boost/cut of the currently selected EQ band.

Frequency: Rotate this control to adjust the center frequency of the currently selected EQ band.

Q: Rotate this control to adjust the Q (bandwidth) of the currently selected EQ band.

On/Off: Rotate this control to toggle the EQ on/off for the specific band of EQ that is currently displayed.

Toggle Button: Touch this button to toggle all 4 bands of EQ on/off for the currently selected channel.

<u>**Adjusting Sends**</u>: When the popup window's "Sends" button is pressed, the popup window will display "FX Send+" in the upper left hand corner, providing an alternate sends interface to the one at the top of the channel strip. The window works as follows:

Send Selection: Swipe the top of the popup window to select which of the 8 channel sends to adjust. The page number in the upper right-hand corner of the window corresponds to the currently selected send (for example, page 5 of 8 means you are currently adjusting send 5).

Level: Rotate this control to adjust the level of the currently selected send

FX On/Off: Rotate this control to turn the selected send on/off, using it as a send bypass control).

FX Pre: Rotate this control to toggle the send between pre-fader and post-fader status. When the rotary control is illuminated, the send is configured as "pre-fader".

Toggle Button: Touch this button to toggle all 8 sends on/off for the selected channel.

<u>**Adjusting Input/output Routing**</u>: When the popup window's "Routing" button is pressed, the popup window displays "Routing" in the upper left hand corner and the window works as follows:

Output Bus: Rotate this control to select among the available audio outputs offered by the audio interface hardware. The display above the rotary control shows all input connections as the control is rotated.

Monitor: Rotate this control to toggle input monitoring on/off for the

Input Bus: Rotate this control to select among the available audio inputs offered by the audio interface hardware. The display above the rotary control shows all output connections as the control is rotated.

Swipe the top of the popup window to navigate to the 2nd page of controls, which includes:

Phase: Rotate this control to invert the phase of the channel's audio by 180°

Gain: This control has no effect in current versions of Cubase/Nuendo.

<u>**Adjusting Inserts**</u>: When the popup window's "Inserts" button is pressed, the popup window displays "Inserts" in the upper left hand corner, and the window works as follows:

FX: Rotate this control to select which of the 8 channel insert slots to adjust. The display above the rotary control will show which insert slot is currently being adjusted.

On/Off: Rotate this control to toggle the bypass state on/off for the currently selected insert slot. The control reads "on" when the insert is active and "off" when the insert is bypassed.

Selected Effect: Rotate the third control in the window to scroll through all available stock and third party insert effects available to Cubase/Nuendo. The display above the rotary control will show which insert effect is currently selected.

Parameter Adjustment: Swipe the top of the popup window to navigate to additional pages, where the parameters of the selected insert can be adjusted, 4 at a time. The number of pages available to swipe to will depend on the particular effect that is selected; An insert effect with a large number of parameters will have more pages of parameters to adjust.

Toggle Button: When adjusting inserts with the popup window, the toggle button has no effect

Known Issues with V-Control 1.2 and Cubase/Nuendo

· The pan controls are not updated by Cubase when it is "reset" in the HUI Setup if already set to pan mode. To better reset it, tap the Send 1 control before resetting.

· Cubase does not set V-Control's counter when first launching or resetting. Cubase will refresh the counter when it changes to a new value.

Using V-Control with Logic

Setting up V-Control as a Control Surface in Logic

To set up V-Control for use with Logic for the first time, perform the following steps:

- Launch the Ney-Fi application

- Launch Logic

- Launch the V-Control app on your Ipad

- In the settings screen of V-Control, select the "computer" tab and then select the computer that Logic is running on

- In the "DAW" tab, select "Logic"

- Since V-Control acts as a "native" Logic control surface, Logic should automatically detect the V-Control app as a valid control surface once it has finished launching

- Logic will then display a message that it has detected a new control surface called "V-Control" and will offer to add it to its list of supported control surfaces. Click "OK"

- At this point, the computer running Ney-Fi will be available to choose from in the computer picker in the settings window. V-Control and Logic will now have complete bi-directional control of each other.

IMPORTANT NOTE!!! When Logic presents the dialog box that it has detected a new control surface, it will offer a checkbox option that says "Do not display this window again". Checking this box will turn off the automatic discovery process of new control surface and thus turn off automatic installation of control surfaces.

DO NOT check this box, as it is very important to have Logic always automatically detect attached control surfaces, in order for V-Control to work correctly with Logic.

Updated versions of V-Control and Logic: If you are setting up V-Control and Logic and it is NOT the first time you have done the setup process (such as using a post 1.2 update of the V-Control app), it is important to manually remove the existing V-Control profile from Logic, so that the new version of V-Control can be automatically detected.

This removal process can be done with the following steps:

- In the Logic drop-down menus, select Preferences/Control Surfaces/Setup.

- In the setup window that appears, you will see a large icon labeled "V-Control". Highlight the icon and press the keyboard's delete key, to delete it.

- Confirm your decision to delete the profile, when asked in the resulting dialog box.

- Before closing the "setup" dialog box, click on the "new" tab at the top, and make sure that "automatic installation" is checked.

- Quit Logic

At this point you may follow the steps for setting up V-Control with Logic, as described on the previous page, with the confidence that the latest installed version of the V-Control app will be automatically detected and used by Logic.

Channel Strip Interface

The channel strip interface allows adjustment of channel levels, adjusting of panning and aux sends, and working with mute, solo, and automation controls. It contains the following controls from top to bottom:

Channel Name Display: This display at the top of each channel displays the name of the channel, matching the channel name in the DAW software itself.

Channel Select: Touch the track name at the top of a channel to select that channel. The selected channel changes to light grey to show it has been selected.

Automation Mode: The thinner text box below the channel name is the automation display. It displays the current automation state for that channel.

Touch the text box to display the automation mode popup menu where the channel's different automation modes can be selected, including:

- **Off:** Turns automation for the channel off

- **Read**: Switches the channel to automation "read" mode.

- **Touch**: Switches the channel to automation "touch" mode.

- **Latch**: Switches the channel to automation "latch" mode.

- **Write**: Switches the channel to automation "write" mode.

Rotary Encoders: These virtual knobs allow you to adjust both channel panning as well as auxiliary send levels 1-8 for the relevant channel. Their specific function is selected using the "Pan" and "1-8" buttons on the right hand side of the V-Control interface.

To adjust the rotary encoder, touch the encoder and swipe using an up-down or side-to side motion.

The rotary encoders operate as follows, when used to adjust stereo panning:

- Touch the pan button, on the right hand side of V-Control. The rotary controls now adjust panning for each channel.

- The pan pot will display the pan position, and at the same time a pan value will be displayed as a numerical value inside the pan pot.

The rotary encoders operate as follows, when used to adjust channel auxiliary sends

- Touch one of the buttons 1-8, on the right hand side of V-Control, to select which of the 8 aux sends in Logic to adjust. The rotary controls now control the aux send level for the selected send.

- Tap the center of a rotary control to toggle the send on/off, allowing for quick and easy bypassing of the channel aux send.

Mute (M): Touch the mute button to mute the channel. Press it again to unmute the channel.

Solo (S): Touch the solo button to solo the channel. Press it again to un-solo the channel.

Input Monitor (I): Touch the "I" button to turn on input monitoring for the channel. Touch it again to turn the input monitoring off.

Record (R): Touch the record bottom to record-arm the channel. Press it again to record-safe the channel.

Fader: Touch the fader and drag it up and down to adjust the signal level of the channel. Since the iPad uses a multi-touch interface, multiple faders can be adjusted at once just like on a real hardware mixer.

The fader cap displays the current gain level for the channel.

Level Meter: The channel strip contains a detailed level meter that displays the signal level of the channel's audio.

Bank Increment/Decrement: Using two fingers, swipe the surface in the fader area (but not in the area of a fader cap) in a left or right motion. Each swipe will bank left or right eight channels at a time.

Channel Increment/Decrement: Using one finger, touch the surface in the fader area (but not in the area of a fader cap) and drag in a left or right motion. Each swipe will bank left or right one channel at a time.

Keep your finger down and keep dragging to increment more than one channel.

Right-Hand Side Controls

The buttons on the right hand side of the V-Control interface work as follows:

Pan: Touch this button to switch the rotary encoders to panning mode.

1-8: Touch any of these 8 buttons to switch the V-pots into auxiliary send control for sends 1-8

Clear Mutes |M|: Touch this button to unmute any and all channels that are currently muted.

Clear Solos |S|: Touch this button to un-solo any and all channels that are currently soloed.

Group Suspend: Touch this button to suspend all track groups that have been created. Pressing the button again will resume the normal grouping function.

Plug-in: Touch this button to bring up the plug-in editing window for the currently selected channel. See the section titled "Plug-In Editing Popup Window" for more details. Touching the button a second time closes the window.

Edit: Touch this button to bring up the V-control Edit Keys popup window. See the section titled "Edit Keys Popup Window" for further details.

Set Left (L): Touch this button to set a mark in point at the current location of the play head.

Set Right (R): Touch this button to set a mark out point at the current location of the play head.

Punch L: Touch this button to set an auto-punch in point at the current location of the play head.

Punch R: Touch this button to set an auto-punch out point at the current location of the play head.

Save: Touch this button to save the current session.

Undo: Touch this button to undo the last performed action of the session.

Redo: Touch this button to redo the last performed action of the session.

Bottom of Screen Controls

The buttons on the bottom of the V-Control interface work as follows:

Settings: Touch this button to bring up the V-Control settings screen. Touch it again to return to the main interface.

Banking Popup Window: Touch this button to bring up the banking popup window, which contains 4 buttons that allow banking the displayed channels left or right, either 1 or 8 channels at a time.

These buttons serve as an alternate interface for bank/channel increment/decrement, for users who prefer this method to the one-finger/two-finger swiping method described above.

Time counter: This display displays the current time location in Logic. It can display the session counter as SMPTE, minutes/seconds, or bars and beats.

Big Counter Display: Touch the left area of the counter display to show or hide the "Big Counter", which displays the counter at a much larger size. Touch the left area of the counter to hide the Big Counter display.

Note that you can still touch the faders with the big counter display active.

Transport Popup Window: Touch the right-hand side of the counter to bring up the transport popup window, which offers additional transport related controls. Touch the right-hand side of the counter again to close the popup window.

See section entitled "Transport Popup Window" for details.

Loop: Touch this button to turn on the loop playback function in Logic. Touch it again to turn the loop function back off.

Metronome: Touch this button to turn on Logic's internal metronome. Touch it again to turn the metronome back off.

Go To Left: Touch this button to move the play head to the current mark in point of the session.

Go To Right: Touch this button to move the play head to the current mark out point of the session.

Rewind: Touch this button momentarily to rewind the play head backwards by one beat. Press and hold the button to rewind the play head, which will keep rewinding until the stop button is pressed.

Fast Forward: Touch this button momentarily to advance the play head forward by one beat. Press and hold the button to fast-forward the play head, which will keep fast-forwarding until the stop button is pressed.

Stop: Touch this button to stop the transport of the current session.

Play: Touch this button to start playback of the current session.

Pause: Touch thus button to pause playback of the session. Touch it again to un-pause the playback.

Record: Touch this button to punch-in to record, in the current session. Touch the play button to punch out of record.

Transport Popup Window

The buttons in the transport popup window work as follows:

Auto-Punch: Touch this button to turn on Logic's "auto-punch" feature, which will automatically punch the transport in and out of record based on the auto punch-in and auto punch-out points. Touch the button again to turn auto-punch back off.

Bars: Touch this button to switch the counter display to show bars/beats.

SMPTE: Touch this button to switch the counter display to show SMPTE values, displayed in hours, minutes, seconds, and frames.

Edit Keys Popup Window

The buttons in the Edit Keys Popup window work as follows:

Automation Write Section: This section allows the user to filter automation status for various channel parameters.

Volume: Touch this button to toggle all volume automation on/off in the current session.

Pan: Touch this button to toggle all panning automation on/off in the current session.

Mute: Touch this button to toggle all mute automation on/off in the current session.

Send Volume: Touch this button to toggle all aux sends volume automation on/off in the current session.

Plug-In: Touch this button to toggle all plug-in parameter automation on/off in the current session.

Solo: Touch this button to toggle all solo parameter automation on/off in the current session.

Command Section: This section contains various editing commands

Cut: Touch this button to cut the currently selected audio clip, removing it from the session but also copying it into the copy buffer memory.

Copy: Touch this button to copy the currently selected audio clip into the copy buffer memory.

Paste: Touch this button to paste the audio clip that is currently residing into the memory buffer into the session at the current location of the play head.

Delete: Touch this button to delete the currently selected audio clip, removing it from the session.

Select All: Touch this button to select all clips residing on the currently selected track.

Window Section**:** This section contains buttons for toggling various Logic windows on/off.

Arrange: Touch this button to toggle the Logic arrange (edit) window on/off.

Mixer: Touch this button to toggle the Logic mixer window on/off.

Event: Touch this button to toggle the Logic event editor window on/off.
Score: Touch this button to toggle the Logic notation scoring window on/off.

Transform: Touch this button to toggle the Logic transform window on/off.

Hyper: Touch this button to toggle the Logic hyper-editor window on/off.

Piano: Touch this button to toggle the Logic Piano View window on/off.

Transport: Touch this button to toggle the Logic floating transport bar on/off.

Environment: Touch this button to toggle the Logic environment window on/off.

Audio Pool: Touch this button to toggle the Logic audio pool window on/off.

Sample Editor: Touch this button to toggle the Logic sample editor window on/off.

Markers: Touch this button toggle the Logic markers window on/off.

Screen Set Section: Touch any of these 9 buttons to switch to 9 different screen sets that you have configured in Logic.

Markers and Jog/Scrub Section: This section allows the user to quickly navigate to different marker positions as well as jug/scrub the play head.

1-9: Touch any of these buttons to go straight to a marker with one button press, all while staying in the edit window.

Prev: Touch this button to navigate to the previous marker

Next: Touch this button to navigate to the next marker

Jog/Scrub Strip: Swipe this strip with in a left or right motion to jog the play head along the timeline.

Touch the transport's pause button to put the transport into pause mode, which will allow the jog/scrub strip to now act as a scrub control. As you swipe along the strip, the track will audibly scrub back and forth.

Touch the pause button again to take the transport out of pause mode. The jog/scrub strip now operates in jog mode again.

Plug-In Editing Popup Window

The insert/plug-in editing window allows you to adjust parameters of an inserted plug-in. It works as follows:

- Touch the channel name at the top of a channel to select the channel whose plugins you wish to highlight.

    - o Note that the plug-in editing window only works for plug-ins that are inserted on an audio track. Plug-ins that resides on an auxiliary return or master fader cannot be edited.

- Touch the plug-in button to bring up the plug-in window.

- A vertical row of buttons on the left hand side of the window will display the names of any plug-ins that have been inserted into the channel's 12

available plug-in slots. Each of these buttons can be touched to allow adjustment of that specific plug-in's individual parameters.

- A second row of vertical buttons allow you to toggle on/off the bypass status of any individual plug-in. The button illuminates to show if a plug-in is currently bypassed.

- As you select a specific a plug-in from the 12 buttons on the left, the names and parameter values of the various plug-in's parameters are displayed on 16 separate rotary controls.

- Adjust the rotary controls to change the setting of a specific plug-in parameter.

- A rotary control can be "double-tapped" to change the control to its minimum position. A 2nd double tap will then change the control to its maximum position. This approach is particularly useful for parameters that only have a 2-position state (such as on/off); Instead of rotating the control to select between the two states, it can simply be double-tapped repeatedly to toggle between the two states of the parameter.

- If more than 16 parameters are present for the select plug-ins, tap the "< page" and page >" buttons to navigate to the different pages of parameters.

- To adjust the plug-ins for a different channel in Logic, simply select a different channel in the V-Control mixer interface (which can be done without having to close the plug-in window).

- Note that, although Logic will allow more than 12 plug-ins to be inserted into a track, V-Control only allows adjustment of the first 12 plug-ins.

Important Tip: Logic requires a track to be in the Arrange window for a control surface to access the plug-in inserts.

By default, aux, output, and master tracks do not get placed in the Arrange window, which means that plug-ins for these tracks will not be controllable by V-Control.

To eliminate this restriction, simply move these tracks to the arrange window by selecting them and then using the key command Control-T.

Known Issues with V-Control 1.2 and Logic

- If Ney-Fi is updated to fix problems or add features, it will be necessary to manually remove V-Control from Logic's controller setup window in preferences, then re-perform the initial setup procedure (see setup section for details).