audient

ASP 2802

DUAL

LAYER CONTROL

AUTOMATION & CONTROL SURFACE MANUAL

Version: 1.00

Contents

Fader Automation

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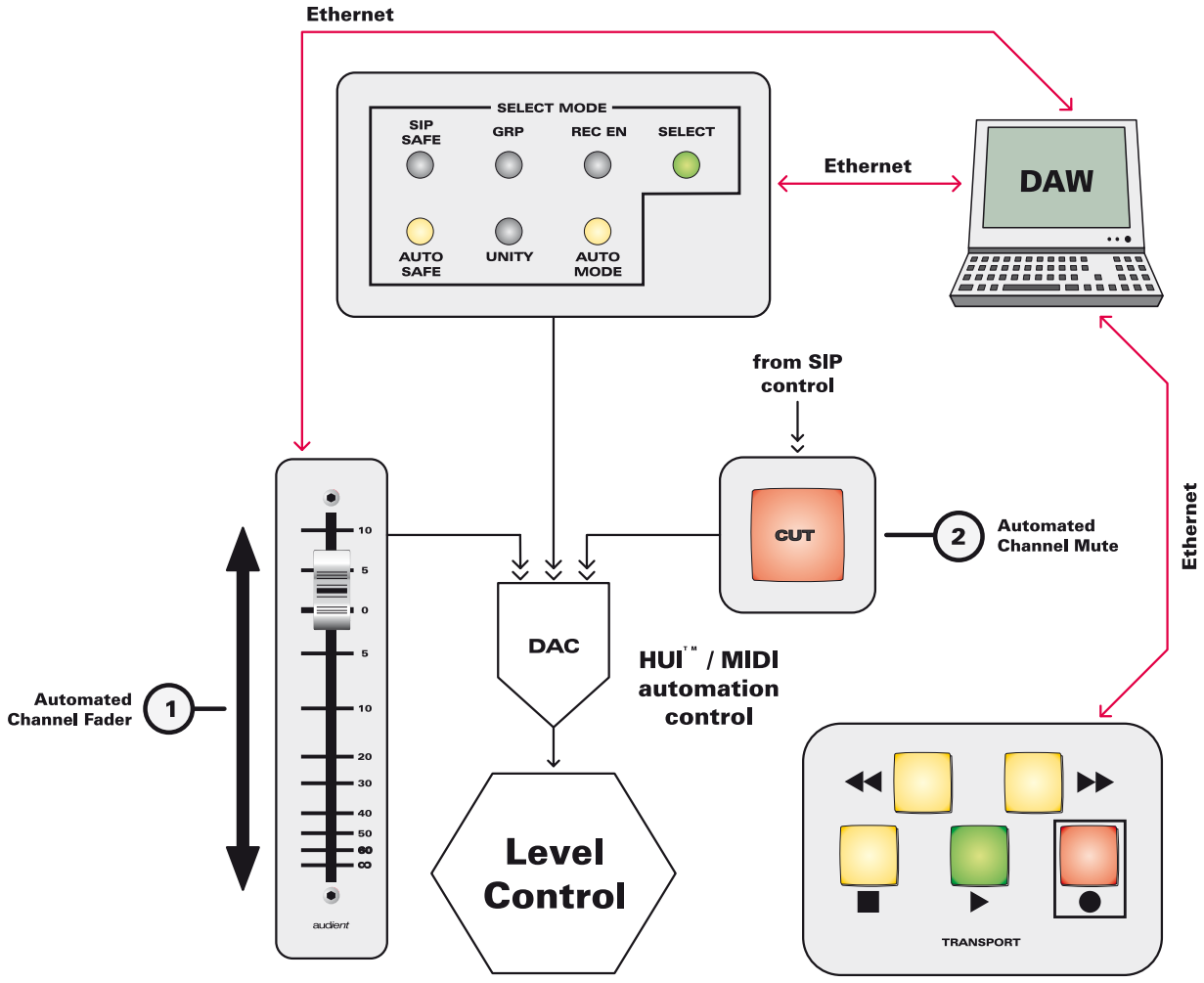
Overview of Functions

The diagram below provides an overview of the automation system and the parameters that can be controlled.

ASP2802 provides fader and mute automation along side its full DAW control surface layer.

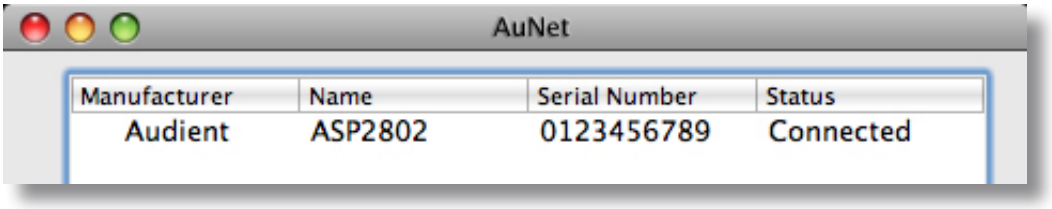
The sections of most interest when using the console automation are as follows:

- Faders
- Cut (Mute) Switches
- Select Mode Panel - Auto Mode, Select and Auto Safe
- DAW Transport

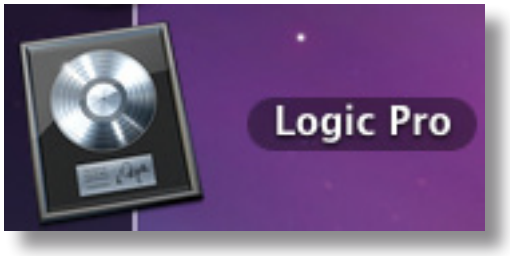


Automation Setup

Assuming that you have followed all steps outlined in the main manual networking section for Apple Mac (page 84 onwards), you will have connected ASP2802 to your studio computer and connected to the console via AuNet.

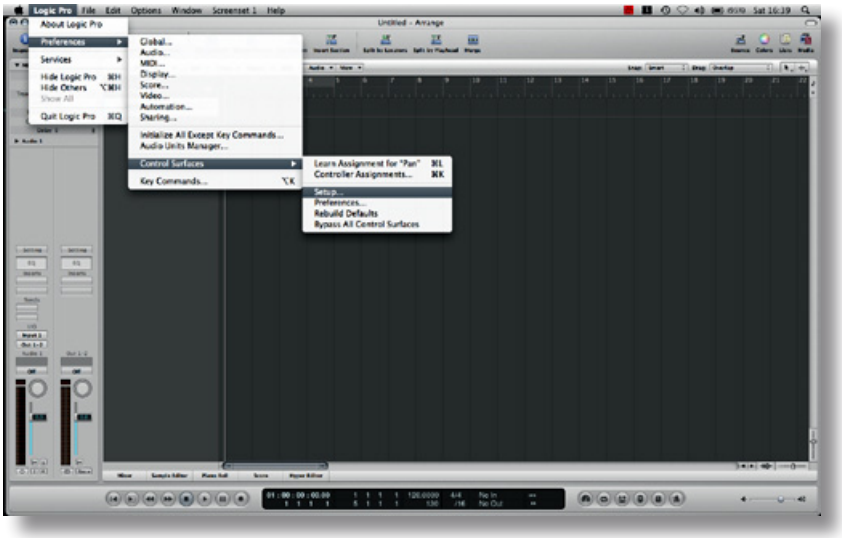


To set up the 8-channel fader automation system in Logic, we must assign a HUI™ controller to a set of 'dummy' audio channels (that contain no session audio - blank) and place them at the start or end of your session (we recommend the start so you can add tracks afterwards with ease as your session progresses). Please note that both fader position and mute status is automatable, therefore you could use the silent muting system to reduce any noise floor from your vintage outboard gear during quiet sections.



After booting Logic please follow the steps outlined below:

Step 1: Logic Pro > Preferences > Control Surfaces > Setup...

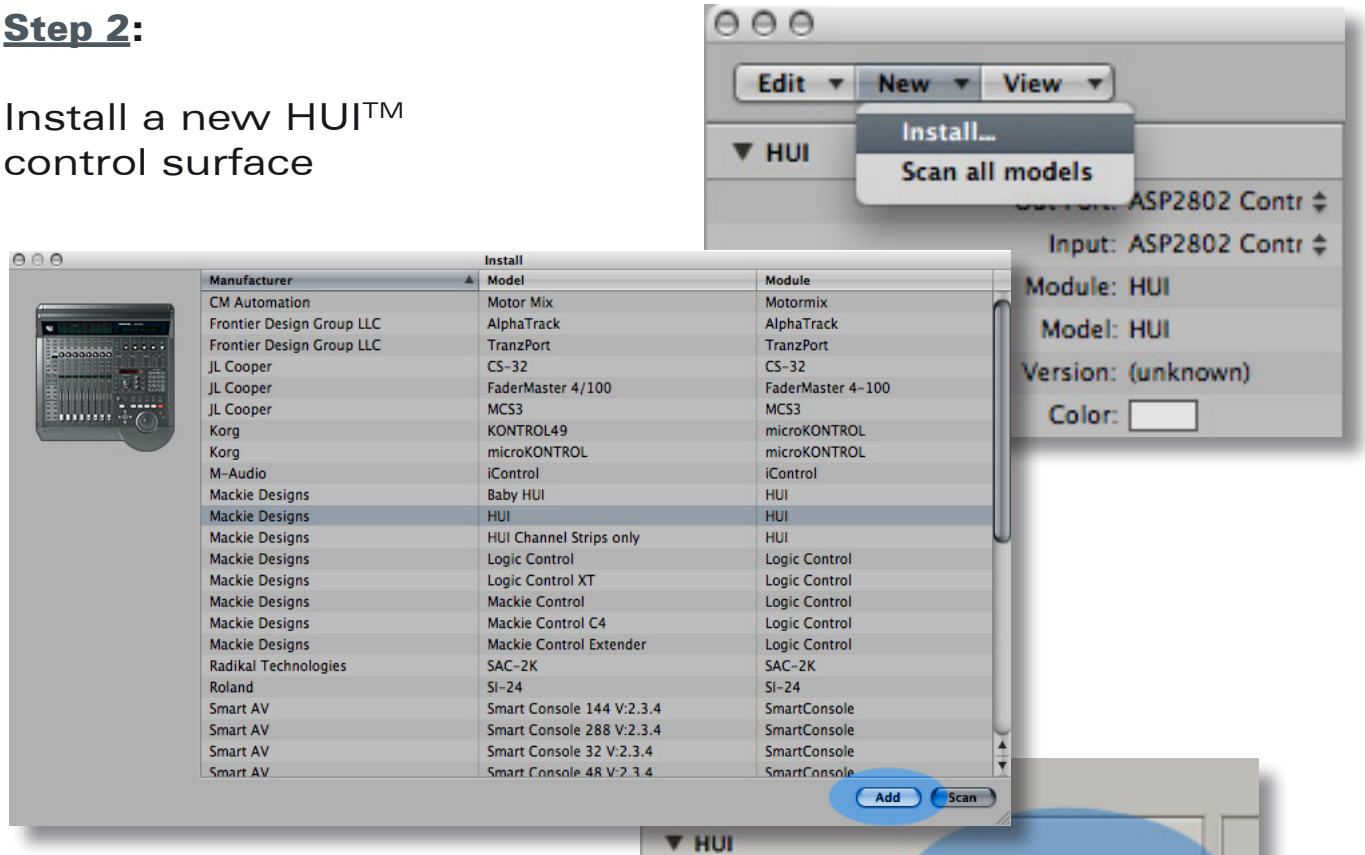


Mackie HUI™ (Human User Interface) is a registered trademark of LOUD Technologies Inc.

Automation Setup

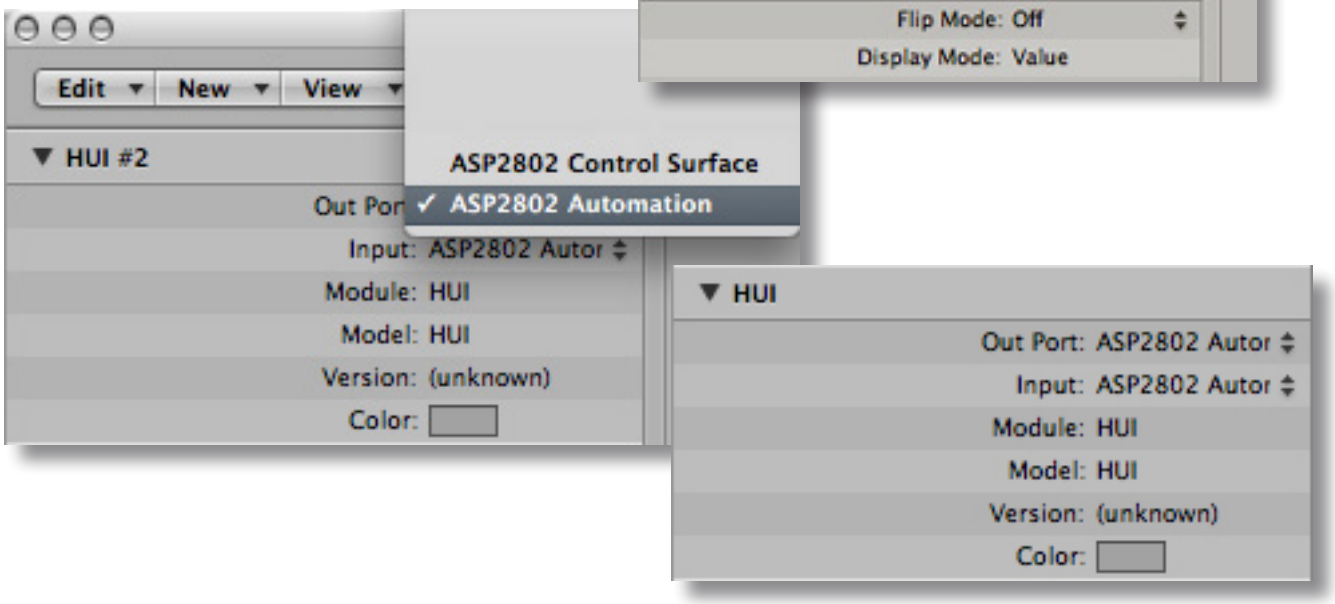
Step 2:

Install a new HUI™ control surface



Step 3:

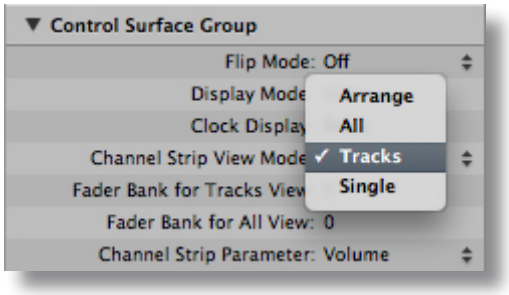
Assign input and output MIDI ports to ASP2802 Automation



Automation Setup

Step 4:

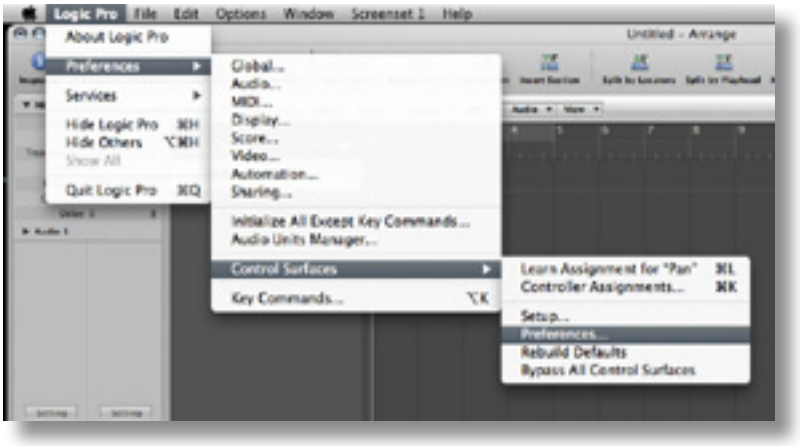
Lock the channel strip view mode to Tracks Only



Step 5:

Close the control surface setup window (top left) and navigate to:

Logic Pro > Preferences > Control Surfaces > Preferences...

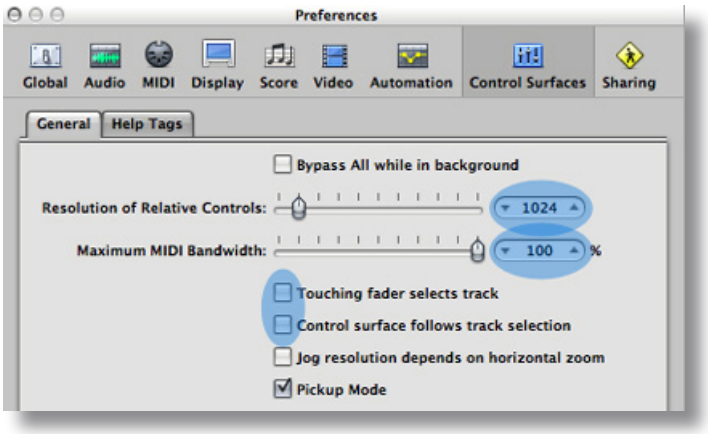


Here set the following parameters to ensure smooth operation:

a.) Please set the resolution of relative controls to 1024 (or any value greater than 512)

b.) Please set the maximum MIDI bandwidth to 100%

c.) De-select control surface follows track selection
You can also de-select touching fader selects track if that improves your workflow within Logic

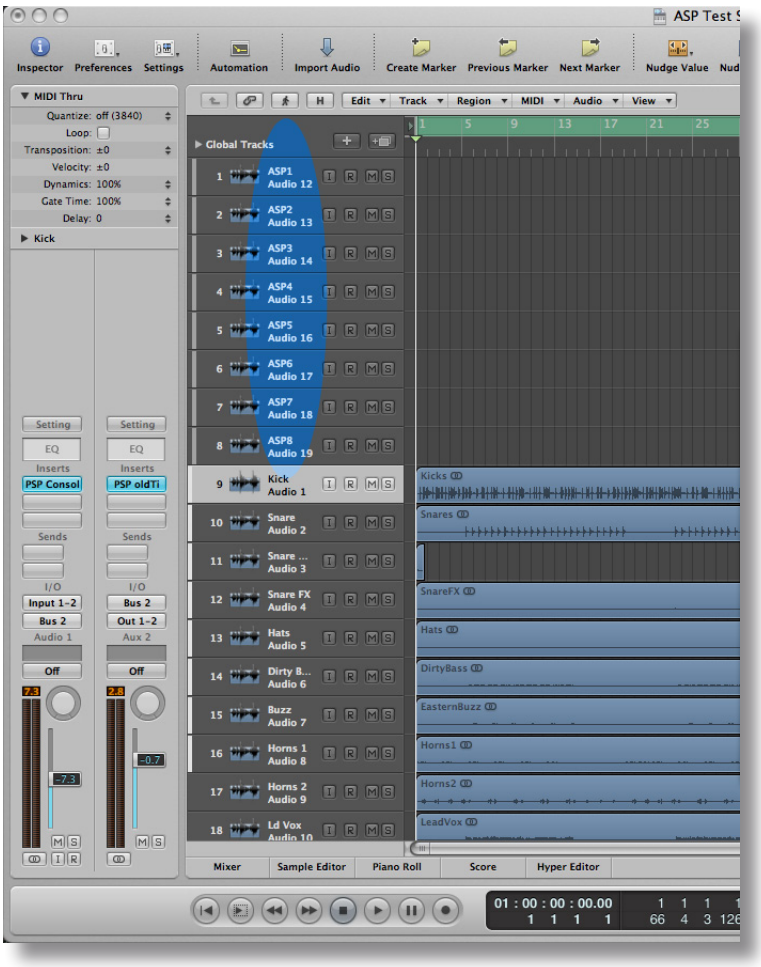


Automation Setup

Step 6:

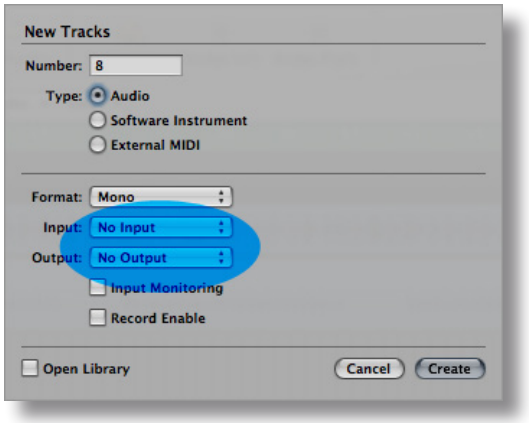
Return to the arrange page and create 8 new mono "dummy" audio tracks for ASP2802 automation to follow and write to.

It is suggested that you place them at the start of your session so that the first HUI™ control surface that drives the automation is locked in place here, note the grey bars to the left of the first 8 track headers.



This allows you to add a second HUI™ surface for the ASP2802 control surface layer.

The following tweak is optional, but we recommend you de-assign any input and output track routing so that you do not inadvertantly record audio on to automation only tracks, as these tracks should contain no audio.



For quicker workflow use the Logic input and output assign boxes in the create new track dialogue window to save time (see right).

Use logical track labels so that they are easier to locate, ASP1, ASP2, ASP3 etc - perhaps with a further addition of whatever source level you are riding, ASP1-LDVox, ASP3-DrumsL etc. Automation modes can now be freely set on each of these channels either via the control surface or in Logic.

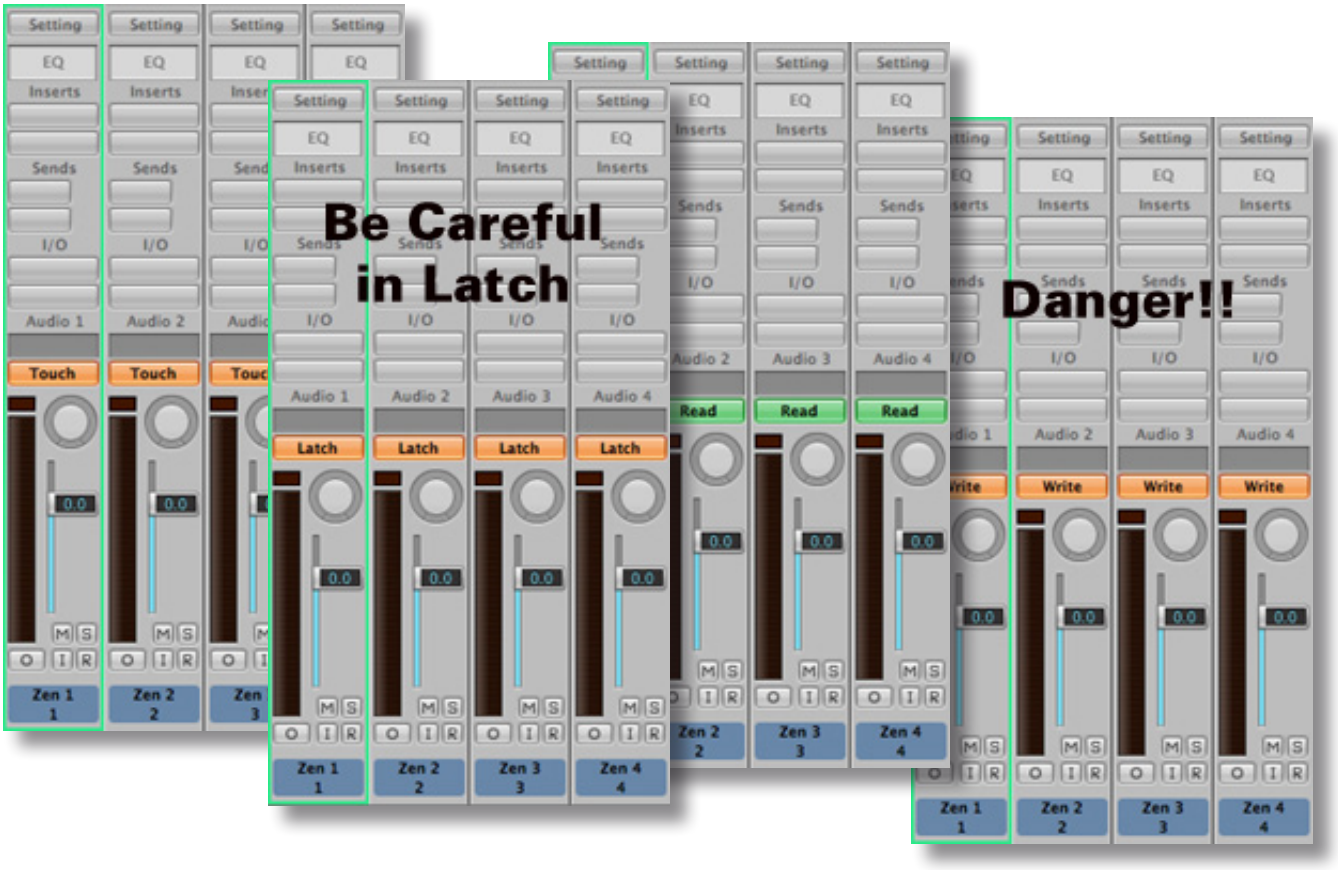
Automation Modes in Logic

We recommend the use of Touch, Latch and Read mode for the majority of your work. Touch mode provides the most essential workflow, writing automation data when a fader is touched and moved (the ASP2802 faders are touch sensitive), returning to previously recorded automation data when a fader is released.

Latch mode is useful but be careful as it will latch to the last touched fader position until play/record is stopped so you may overwrite important rides. However, fear not, you always have multiple stages of undo in the DAW.

Read mode is to be used for playback of automation data.

Be very careful in Logic when in Write mode as Logic may automate any paramater touched, plug-ins, EQ bands - the lot if you're not careful!

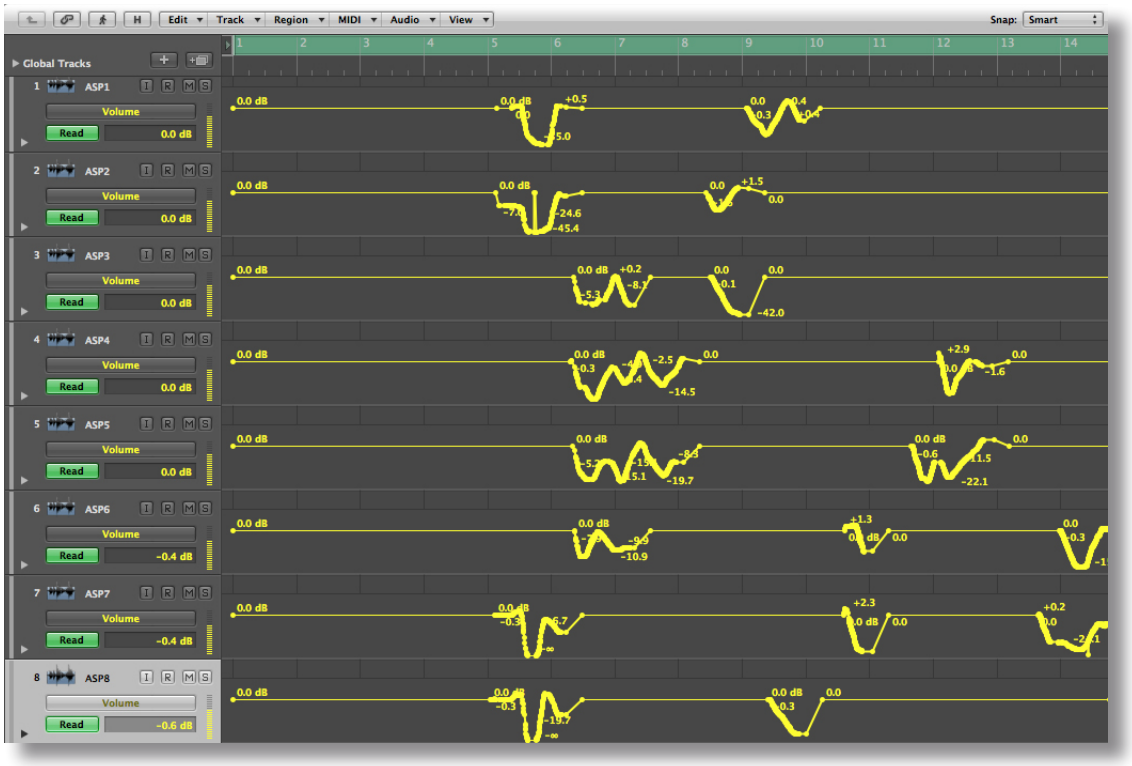


Automation Setup

Writing and Viewing Automation in Logic

Once setup, rides and mutes can be recorded into Logic and viewed, edited or manually drawn like any other DAW based automation.

To view your recorded automation press ‘A’ (standard Logic keyboard shortcut) or click on the automation icon at the top of the screen.

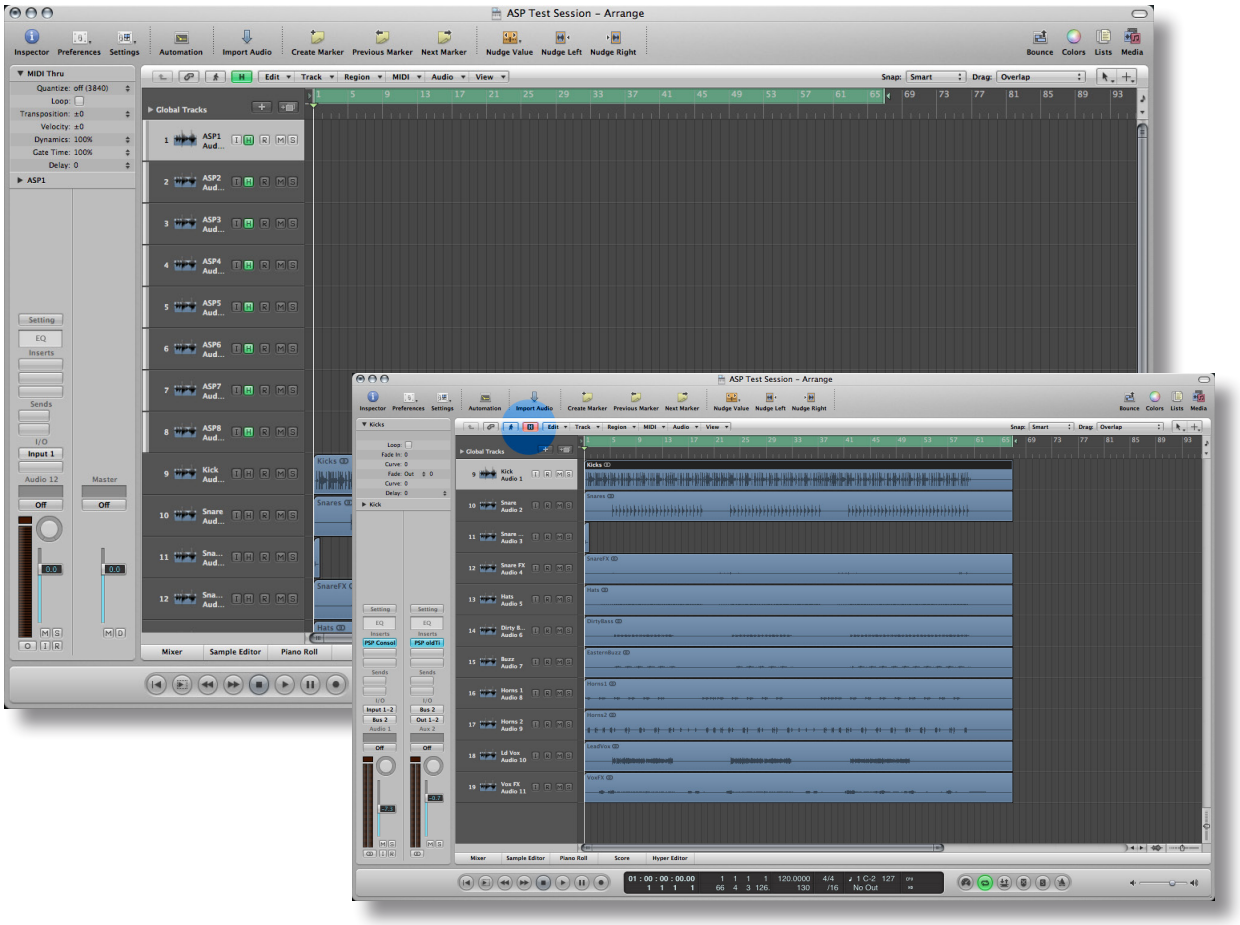


You may also find it useful to hide these tracks with the useful hide function in Logic. Note that this will only work if step 4 is followed (channel strip view to tracks).

Hiding Tracks in Logic

Accessed by pressing ‘H’ on the DAW keyboard or clicking on the little ‘H’ hide icon at the top of the arrange page. Set the ASP channels to hide by clicking the little ‘H’ on each channel and then toggle ‘H’ to show / hide. Hiding the tracks still allows the automation data to function but ensures a tidy session.

Hiding Tracks in Logic cont.



Please note that Logic is currently the only platform that will happily allow two HUI™ control surfaces to be active and independent at this point. Therefore in Logic it is quite possible for you to sit permanently in the DAW layer when mixing and use the ASP2802 control surface to ride the analogue fader automation.

Just treat the ASP2802 fader and mute automation channels like any other channel in your DAW mix.

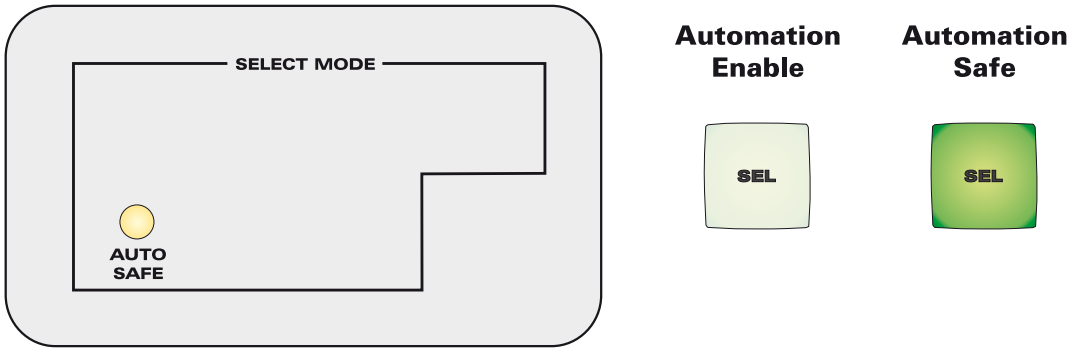
Total integration and the essence of Dual Layer Technology.

Automation Enable / Safe

A Note on Automation Safe

Automation safe should be used when you want to isolate a particular channel from automation - for example - to audition rides without “fighting” existing automation data or without “printing” the rides if channels are still in write enabled.

When the console boots automation safe is engaged by default. If you wish to automate a channel you must first press the automation safe switch (in the select mode panel) and then turn off automation safe from each channel you wish to automate.



Note that all select mode layers are stored and function simultaneously. By toggling the select mode switches in conjunction with the large green channel select switches it is possible to obtain rapid control of SIP safe, DAW record enable, select, unity and automation safe channel settings.

All select mode layers are stored even after a power down, so remember to clear them manually if the next session requires a different setup.

Control Surface Setup

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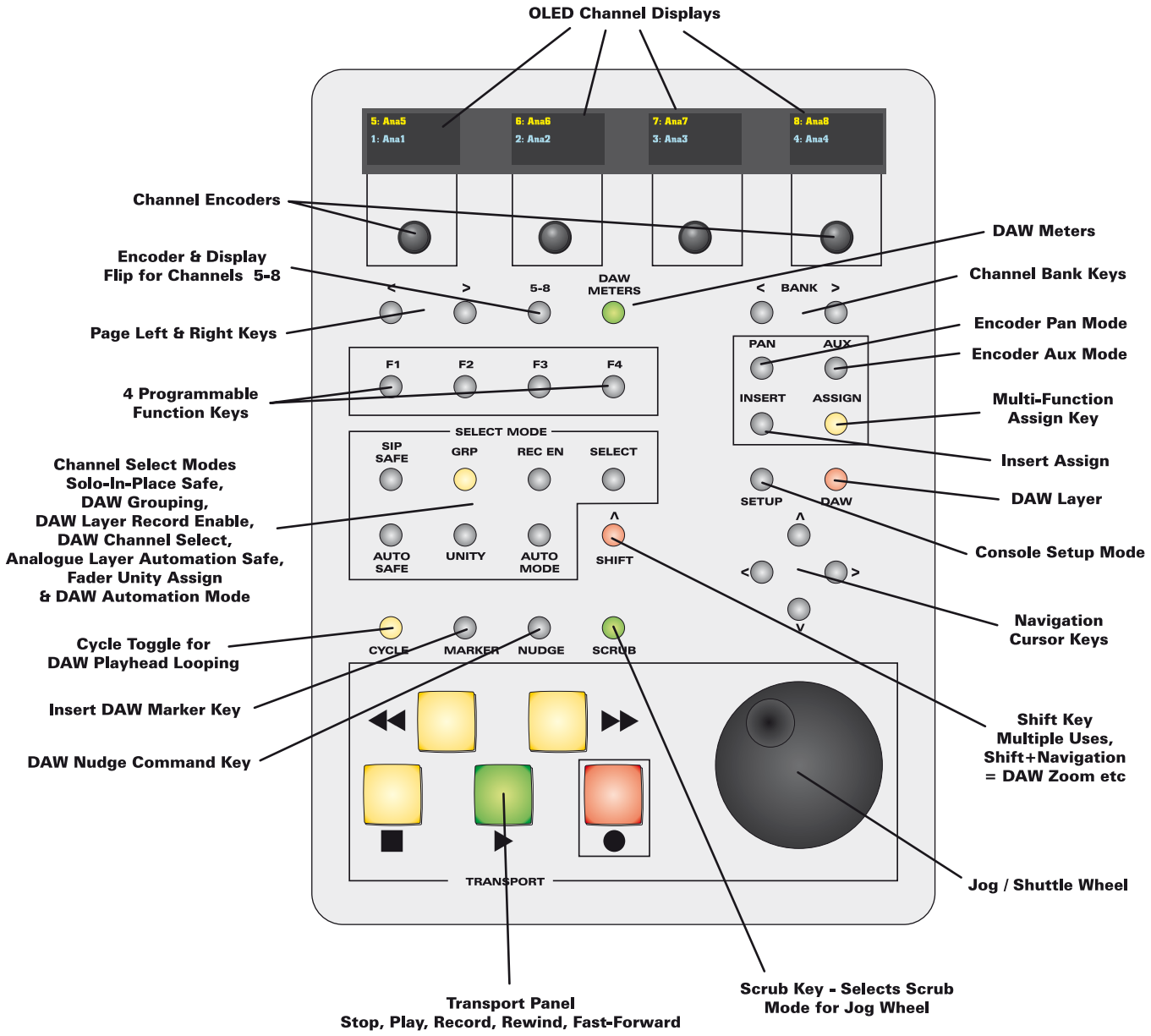
Control Surface Panel



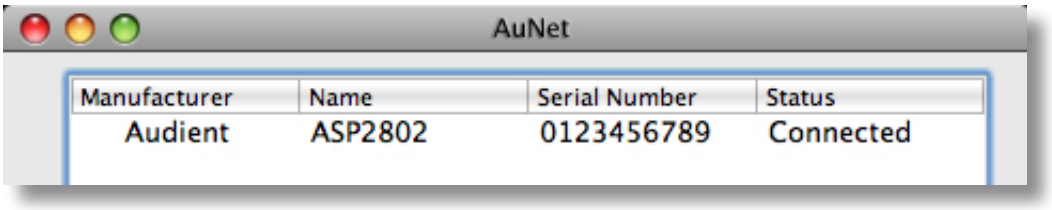
Control Surface Operation

The control surface panel on ASP2802 provides access to many common and useful DAW functions.

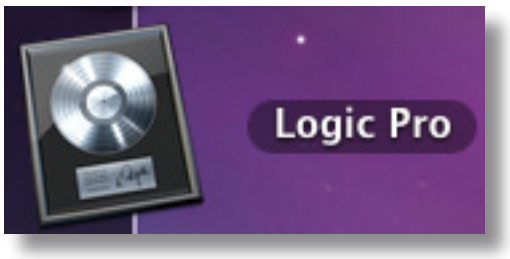
Please follow the setup procedure outlined on pages 15 to 18 and then read onwards from page 19 to learn how to operate the ASP2802 control surface.

Control Surface Setup

Assuming that you have followed all steps outlined in the networking section, you will have connected ASP2802 to your studio computer and connected to the console via AuNet.



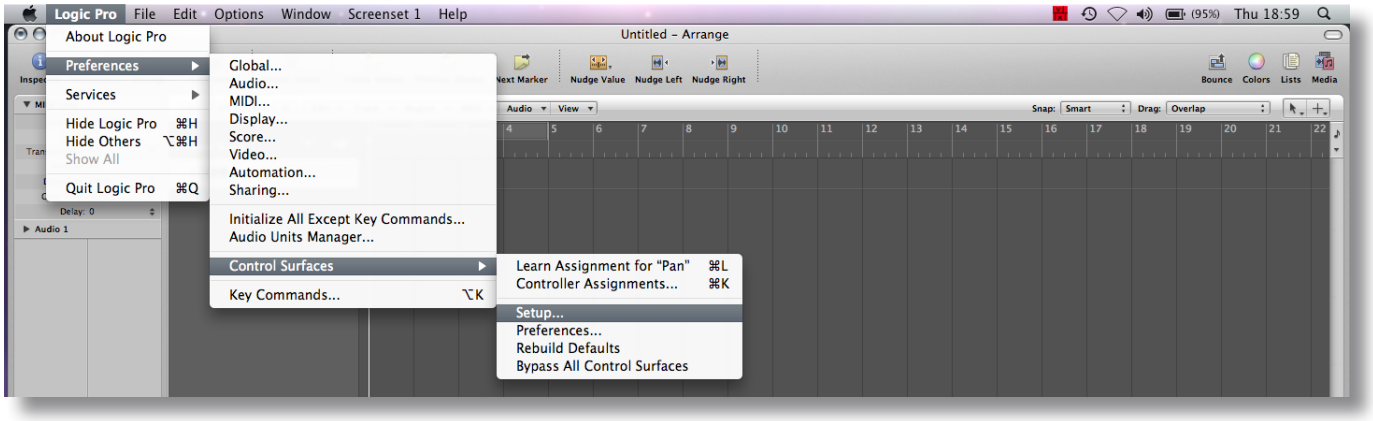
To set-up ASP2802 as a control surface for Logic please follow these steps:



Step 1: Press the ASP2802 Setup button and select Logic in the host software option page using the rotary encoder,

Please note that the setup light will flash if you have changed from another host software selection, press the setup switch to confirm.

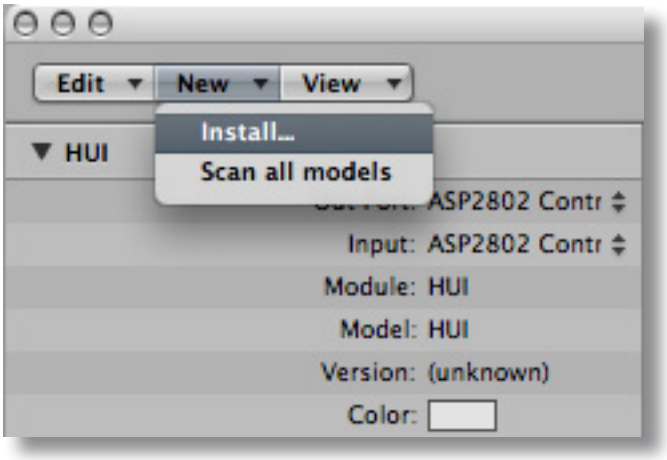
Step 2: Exit ASP Setup, boot Logic and navigate to Logic Pro > Preferences > Control Surfaces > Setup...

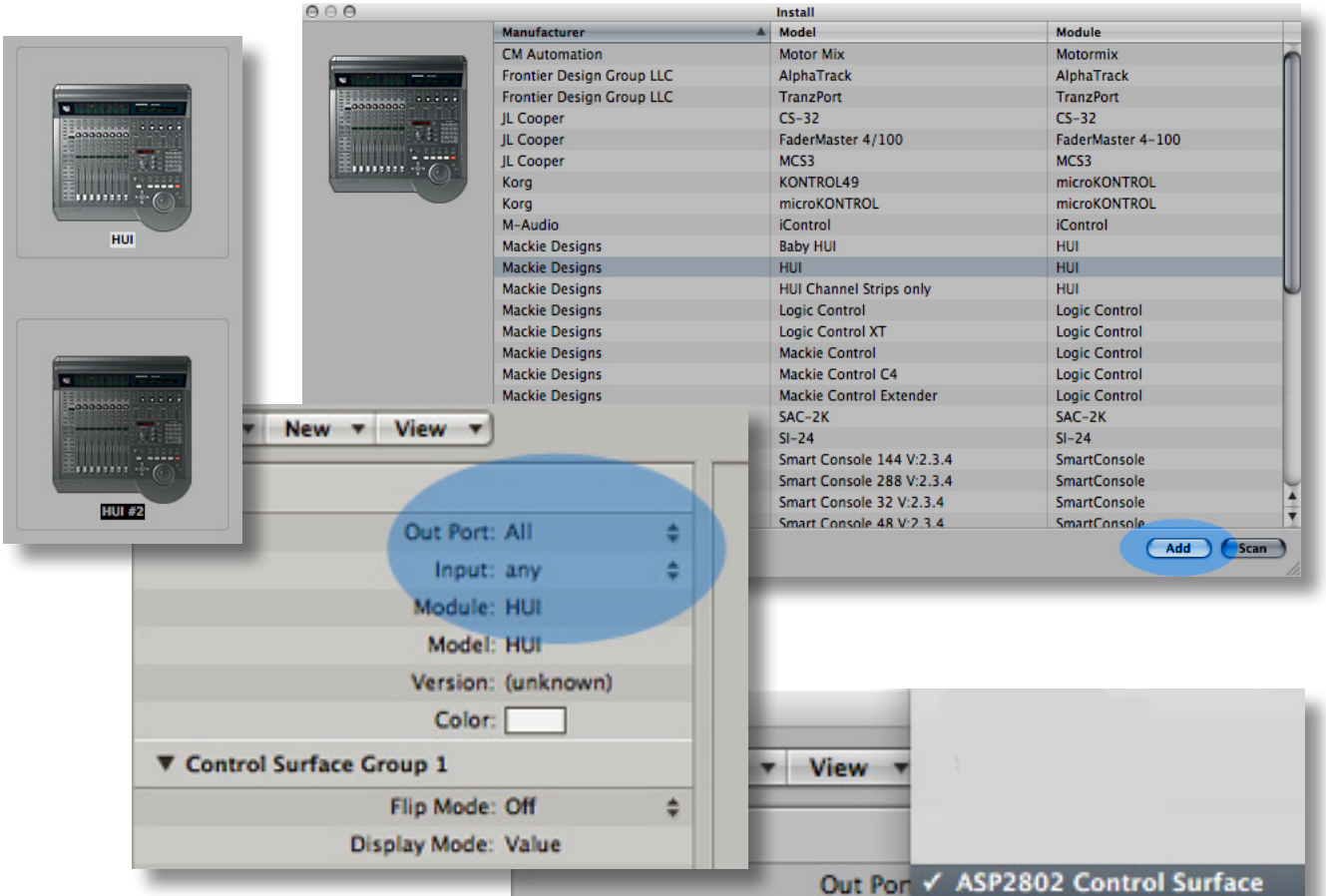


Step 2:

Install a new HUI™ control surface (a 2nd if using one for the fader automation).

If using two HUI™ controllers (one for automation and one for control surface), please ensure that they are dragged apart so that they can exist as two independent controllers.





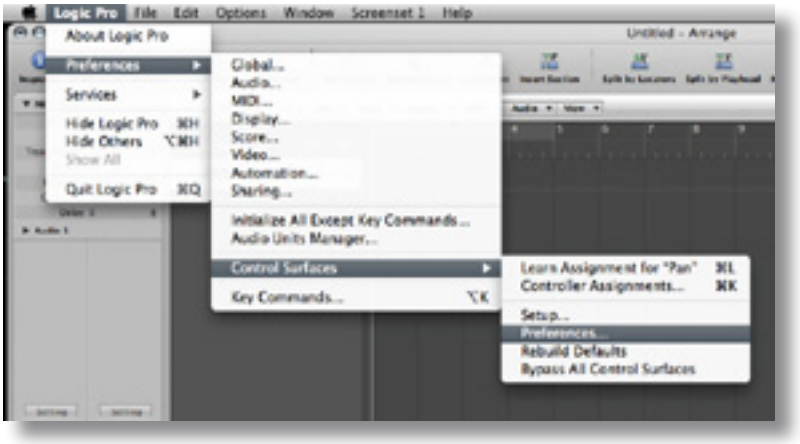
Step 3:

Assign input and output MIDI ports to ASP2802 Control Surface.

Step 4:

Close the control surface setup window (top left) and navigate to:

Logic Pro > Preferences > Control Surfaces > Preferences...

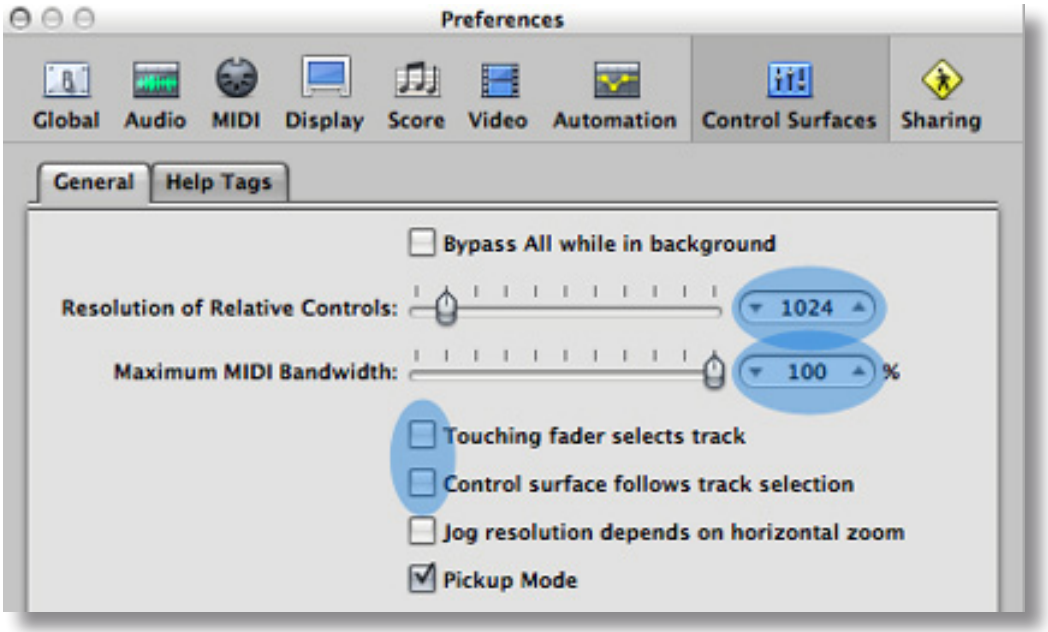


Here set the following parameters to ensure smooth operation:

a.) Please set the resolution of relative controls to 1024 (or any value greater than 512)

b.) Please set the maximum MIDI bandwidth to 100%

c.) De-select control surface follows track selection
You can also de-select touching fader selects track if that improves your workflow within Logic



Running Automation & Control Surfaces Simultaneously

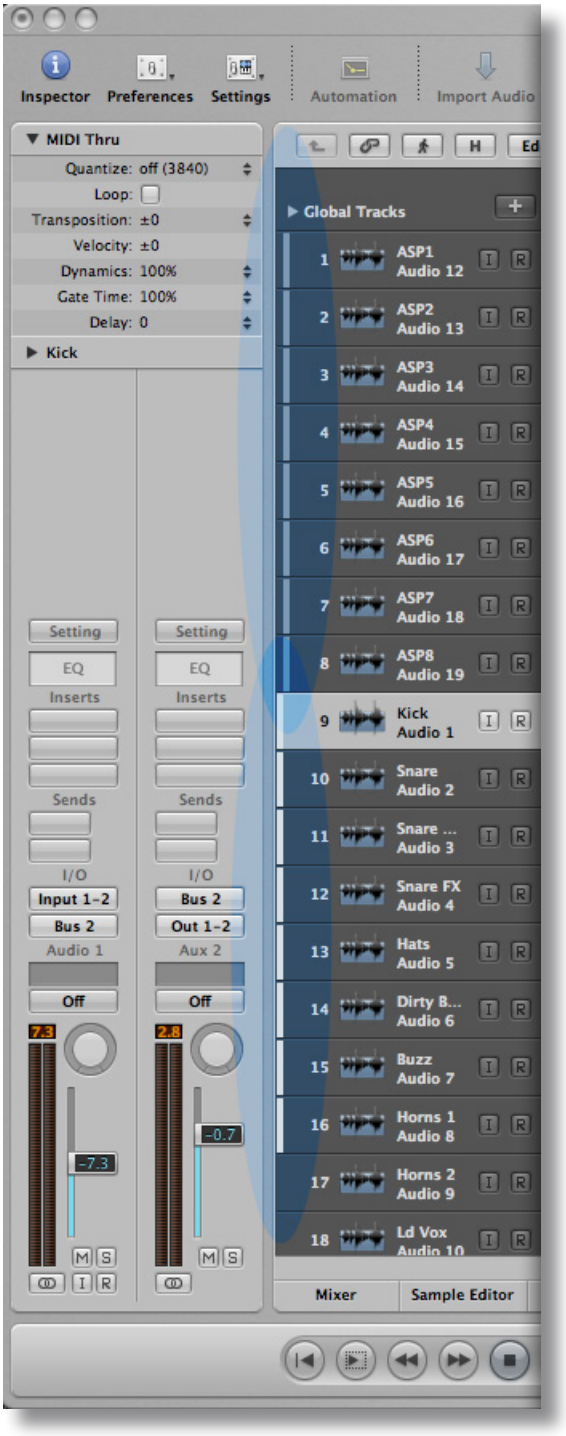
Please ensure that there are two banks of 8 channel controllers indicated in the track-header if using two HUI™ instances to make the most of ASP2802's powerful fader automation and DAW layer.

The first 8 channels should be fixed to the console automation and permanently highlighted at the start of your Logic session.

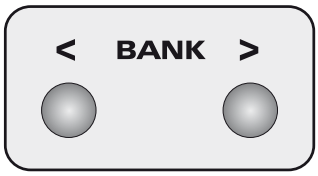
The second 8 channels should be highlighted and will 'window' around your session when using the channel bank or channel nudge commands on the DAW layer (see page 26).

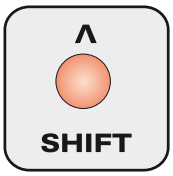
Please test this to ensure it is setup correctly.

Your control surface is now ready to be used.



Shift + Bank = Nudge





Control Surface Functions

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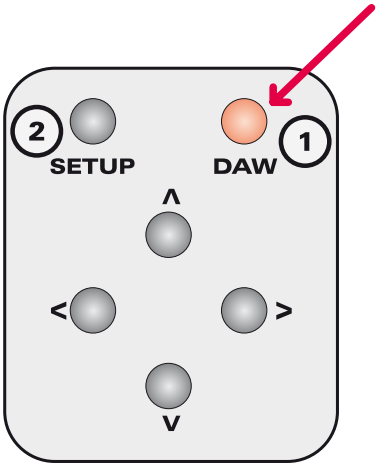
Control Surface Functions

Entering DAW Layer



To enter the DAW layer for control surface functionality ensure that the DAW switch (1) is depressed and illuminated.

Whenever it is not illuminated, the faders and channel switches operate in the analogue layer.

However, some of the control surface functionality remains active when in the analogue layer to aid your session workflow, allowing simultaneous control of both analogue fader level and important DAW functions.

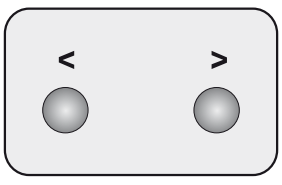
These are:

- Transport switches (3-7) jog / shuttle disabled
- Cycle toggle on / off
- Track / region navigation cursor controls
- Shift + navigation cursor controls for horizontal and vertical zoom
- DAW meters

Console Setup Switch

The setup switch (2) allows you to access a number of useful networking parameters as well as set the host DAW platform of choice and check your current firmware revision.

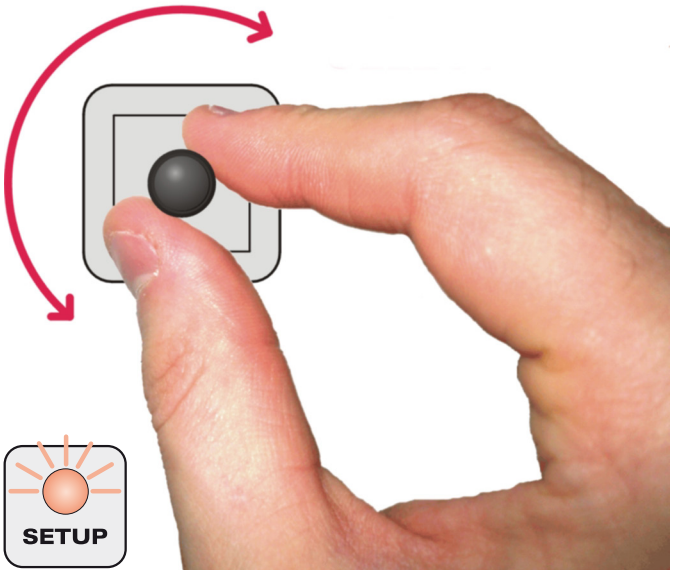
Once the setup switch has been pressed, the OLED displays will show the first page of the setup menu.



To page through various other pages on the OLED displays, whether it be in the setup menu or when accessing insert plugin parameters, use the page function switches (26) located under the left most encoder.

Editing Setup Parameters

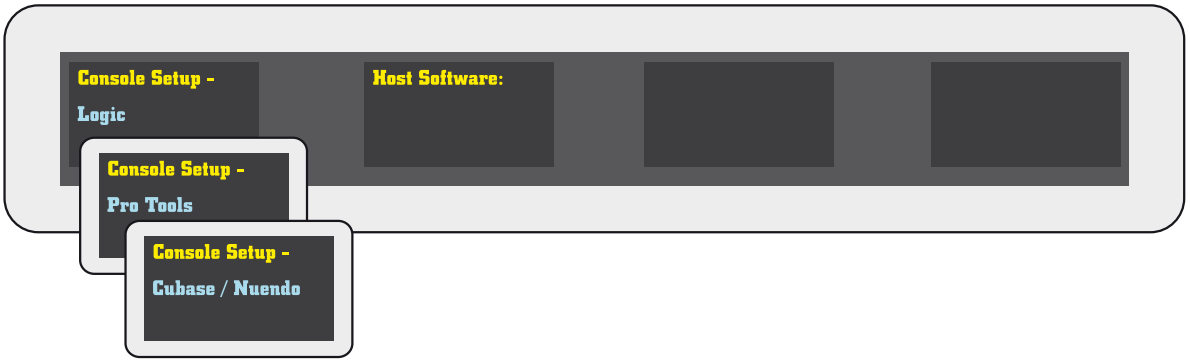
To edit parameters in any of the OLED displays when in setup mode, rotate the corresponding rotary encoder to change values and then press the setup switch to select and apply the changes.



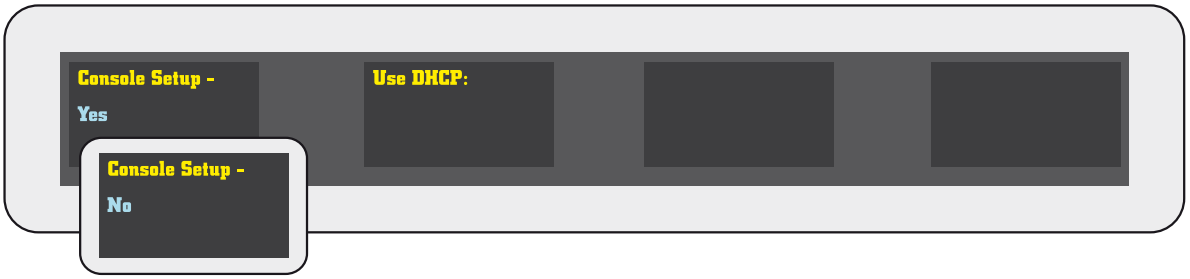
Note that once a change has been made, the setup switch LED will flash to indicate that a setting has changed and will return to a solid red once changes are confirmed.

Console Setup Switch OLED Pages

Setup Page 1 - Host Software

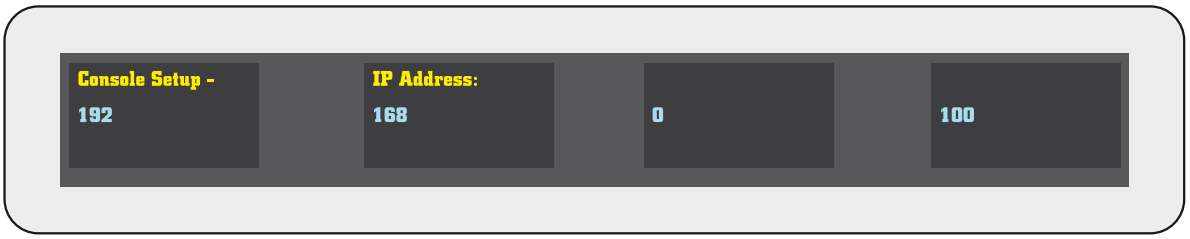


Setup Page 2 - Use DHCP (networking option)

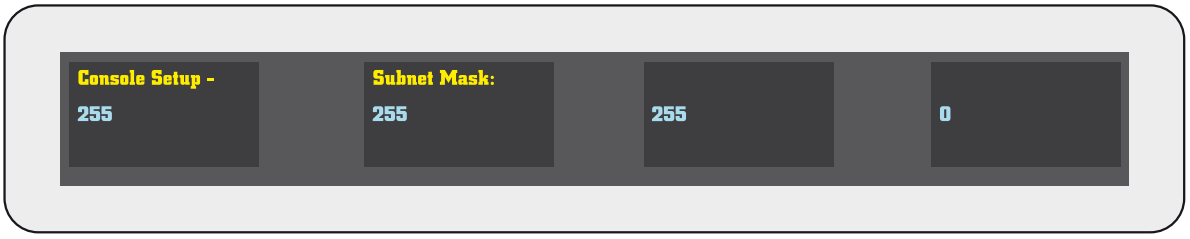


Console Setup Switch

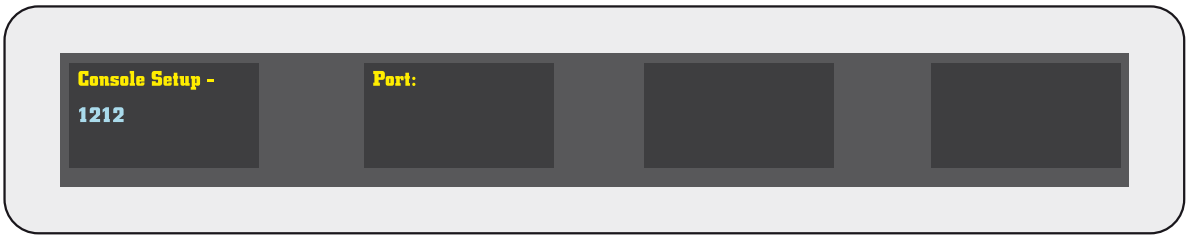
Setup Page 3 - IP Address (networking option)



Setup Page 4 - Subnet Mask (networking option)



Setup Page 5 - Port (default 1212, networking option)



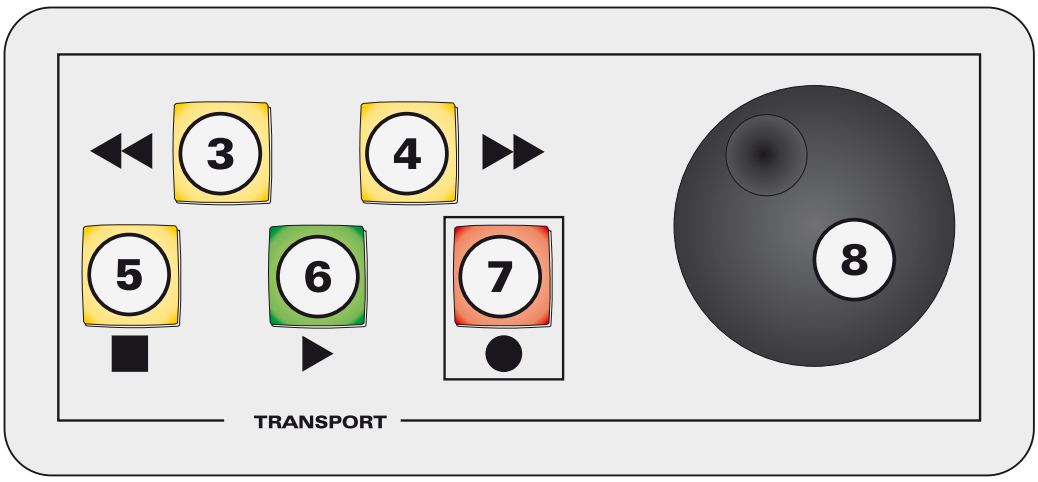
Setup Page 6 - Firmware Info

Transport Panel

The transport panel on ASP2802 provides access to the following functions:

- Rewind (3)
- Fast-Forward (4)
- Stop (5)
- Play (6)
- Record (7)

A jog wheel (8) is also provided and can be used to control several DAW commands.



When operating the rewind or fast-forward controls (3 & 4) it should be noted that one switch press initiates the command, and further switch presses will increase the speed of the playhead rewind or fast-forward. To exit the rewind or fast-forward command you must press stop or play.

A double tap on the stop control (5) provides RTZ (return to zero) functionality, placing the playhead at the beginning of the session.

The jog wheel (8) operates as a silent re-position of the playhead cursor, with clockwise movements positioning the playhead cursor forwards in time and anti-clockwise movements positioning the playhead cursor back in time.

Transport Panel cont.

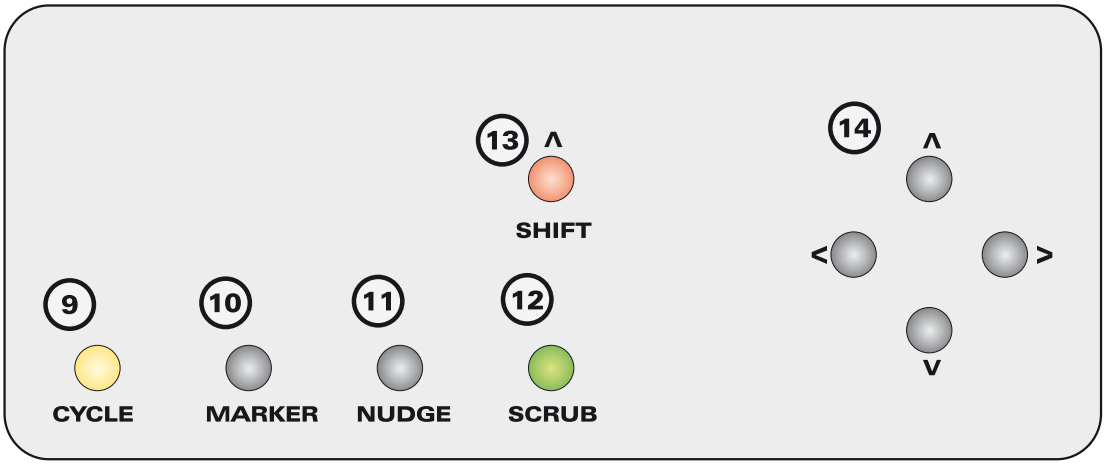
By using the scrub function (12) in conjunction with the jog wheel (8), the playhead cursor can be used to 'scrub' through the audio within your Logic session in realtime as if 'rocking the tape against the playhead'. This is useful for finding edit points and punch-in locations etc. When in this mode, the scrub switch will be illuminated in solid green.

If the scrub switch (12) is pressed for a second time, the jog wheel (8) performs shuttle operation, providing continuous rewind or fast-forward of the playhead cursor. This is silent and indicated by a flashing green LED in the switch.

A third press on the scrub switch (12) toggles back to standard jog wheel operation, indicated by no switch illumination.

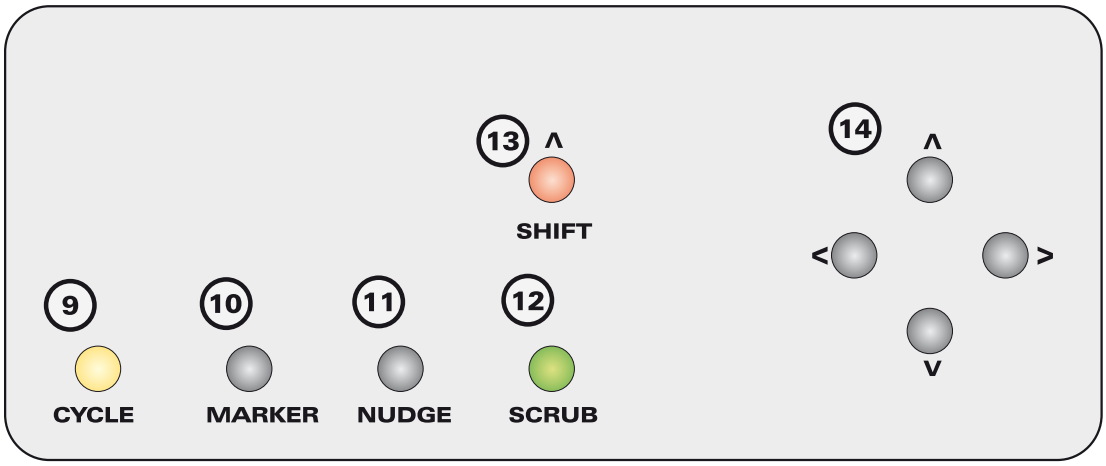
Navigation & Utility Controls

ASP2802 provides several navigation and utility controls just above the transport section.



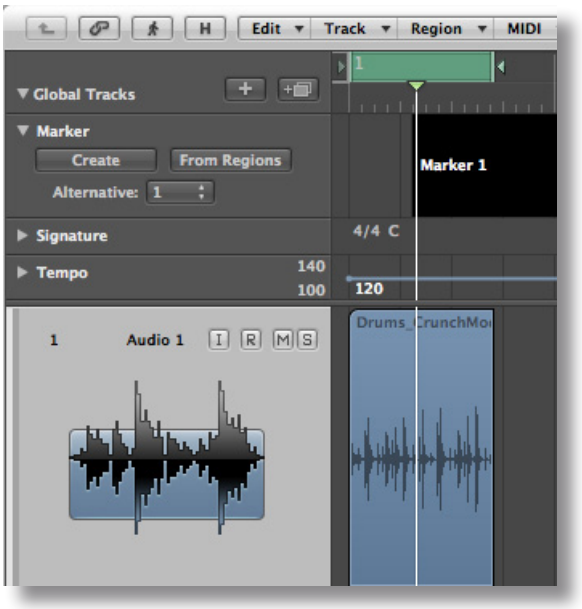
The cycle control (9) can be used to toggle Logic's cycle loop on and off.

Navigation & Utility Controls cont.



The marker control (10) can be used to add markers to the global marker track in Logic. This may be useful for flagging edit points during a take for example. Tap on the marker switch to place a marker in the timeline, multiple taps place multiple markers at their corresponding timeline positions.

The nudge control (11) is currently unsupported in the initial Logic software release.



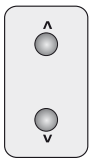
Please see **www.audient.com** for the latest updates to control functionality.

The navigation cursor controls (14) can be used to select tracks in your Logic session (up & down cursors) or to select regions on the selected track (left & right cursors).

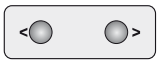
If used with shift mode (pressing switch 13), the navigation cursors operate as zoom controls. Vertical track zoom is achieved with the up & down cursor switches, while horizontal timeline zoom is achieved with the left & right cursor switches.

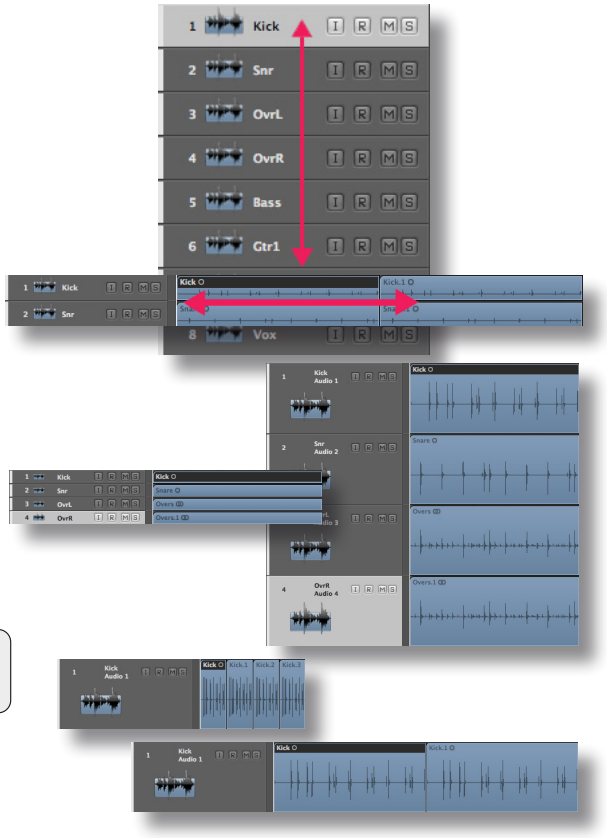
Navigation & Utility Controls cont.

Track Select Mode

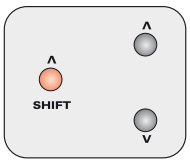


Region Select Mode

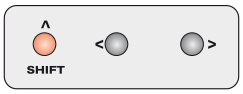




Vertical Zoom Mode



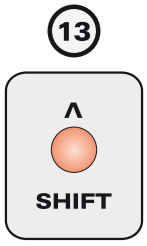
Horizontal Zoom Mode

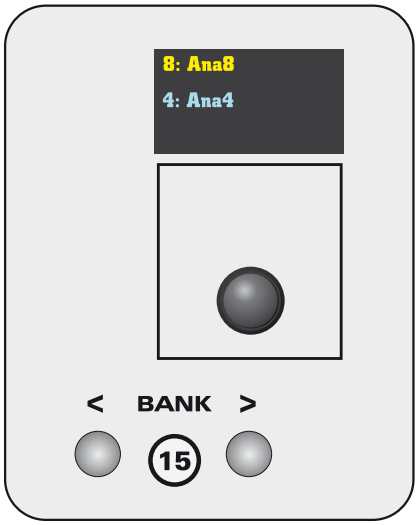


Track Navigation Controls

In order to navigate around your session and bring banks of 8 tracks onto the ASP2802 control surface, there are several switches that are useful.

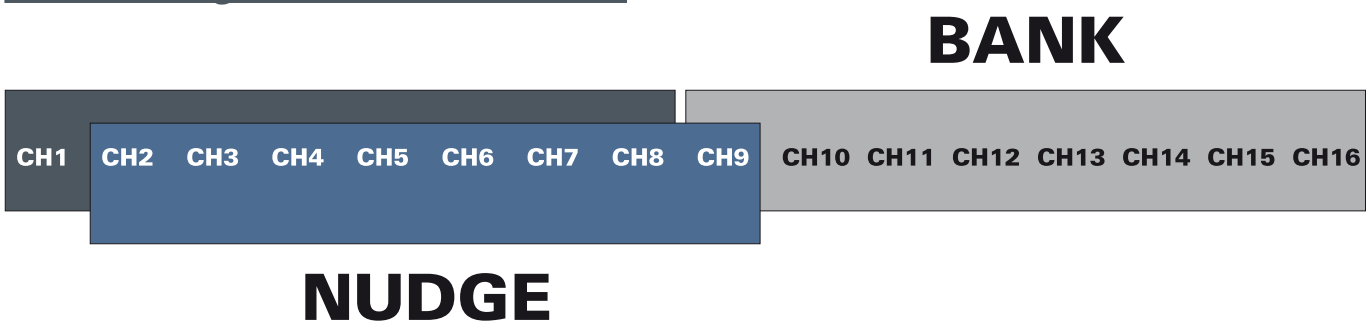
The bank switches (15) allow you to 'bank' in eight channel blocks left and right, through either your tracks or arrange page channels (for example 1-8 or 9-16).





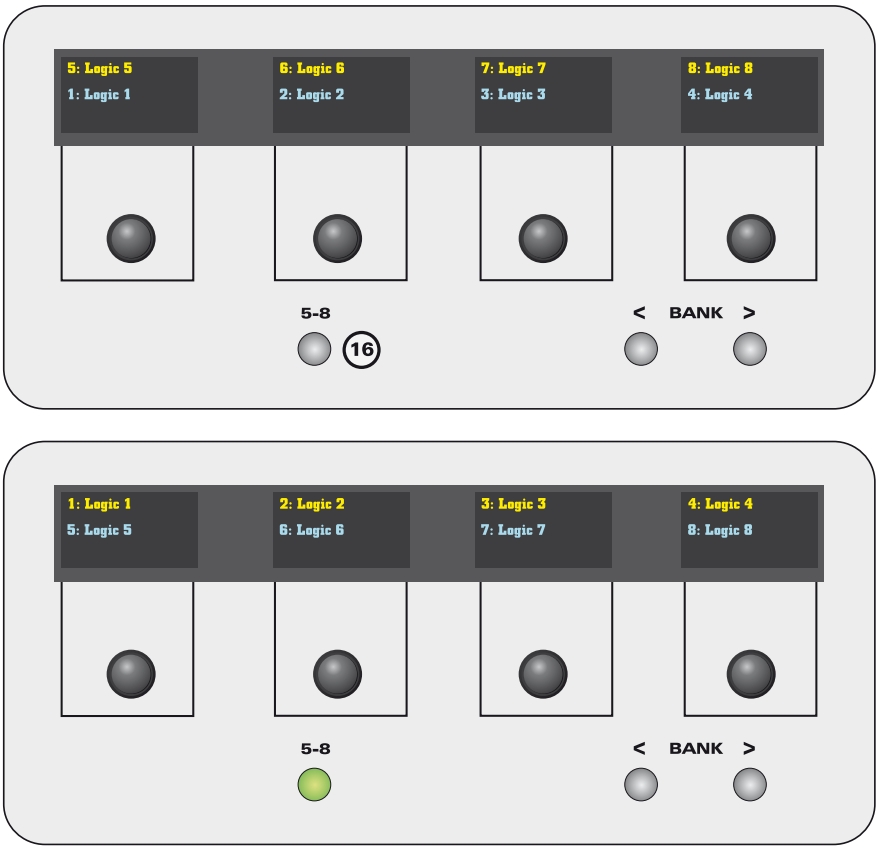
If using the bank switches (15) in conjunction with the shift switch function (13), it is possible to 'nudge' left or right on a channel by channel basis (one at a time).

Track Navigation Controls cont.



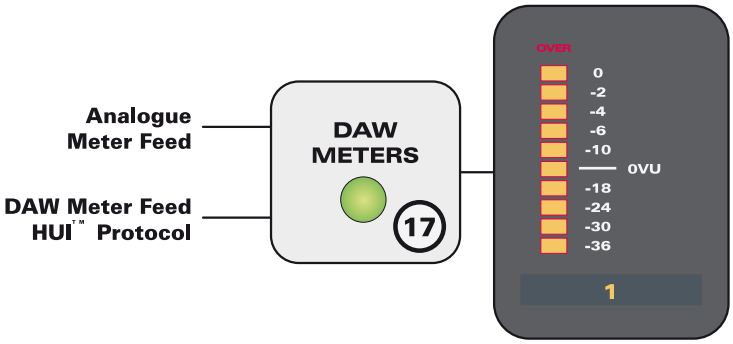
To access encoder parameters and / or OLED display information for all eight channels, the 5-8 switch (16) must be used to access the last four channels in the bank of eight.

The channels that are active and available on the encoders are illuminated in blue. The encoders can be used to access pan, aux, insert and input / output assigns for the four active channels.



DAW Meters

If you wish to display eight channels of DAW metering on ASP2802's LED bargraph meters, a global command switch (17) DAW Meters, provides this functionality.



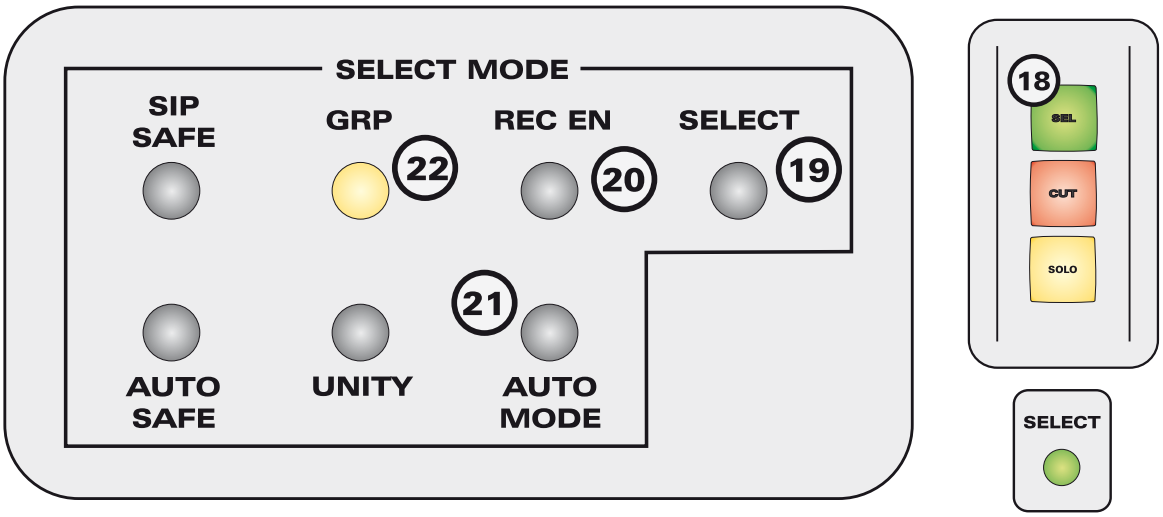
DIGITAL CLIP		
0 dBFS	+18 dBu	
-2 dBFS	+16 dBu	
-4 dBFS	+14 dBu	
-6 dBFS	+12 dBu	
-10 dBFS	+8 dBu	
-14 dBFS	**+4 dBu**	**0VU**
-18 dBFS	0 dBu	
-24 dBFS	-6 dBu	
-30 dBFS	-12 dBu	
-36 dBFS	-18 dBu	

Channel Select Mode

The select mode panel provides various functions, some of which operate on the analogue layer and are useful for automation control (auto safe etc), while others are specifically used for control over DAW functions on the DAW layer.

Above each fader are three illuminated push switches.

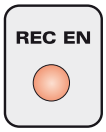
The first switch, select (18) can be used for several functions on both analogue and DAW layers when used in combination with the select modes available in the middle of the control surface panel.



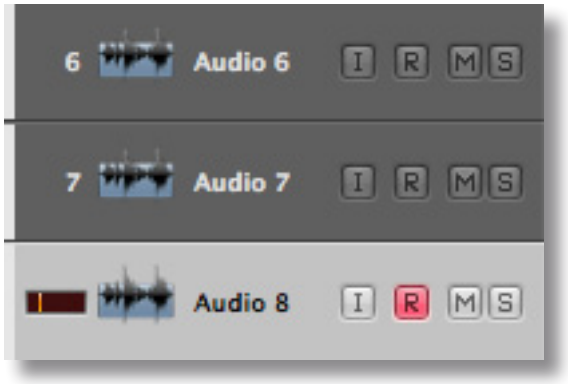
When select mode is chosen (19), the large green channel select switches above the channel faders become DAW channel selects when in control surface mode. Selected channels are highlighted in white within Logic and a box is shown around the channel name in the ASP2802 OLED display. In Logic, only one channel can be selected at any one time regardless of Logic's useful 'drag and select' mixer feature.

Record Enable Mode

Use record enable (20) within DAW control surface mode when arming tracks for recording in Logic.



Activate this mode and then use the large green channel select switches (18) to record enable each track active on the eight channel HUI™ bank.



Please note that by using multiple channel select switches (18), you can record enable more than one track at once.

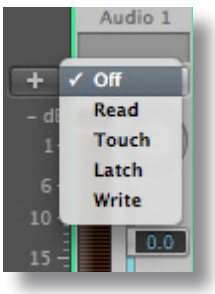
Automation Modes

The automation mode control (21) is used in the DAW layer to set host specific automation modes like read, touch and latch etc.

This control can be used to access automation modes for channels active on the control surface or the eight dummy channels provided at the start of your session that control the ASP2802 analogue automation (see the automation chapter starting on page 3).

The available automation modes in Logic are:

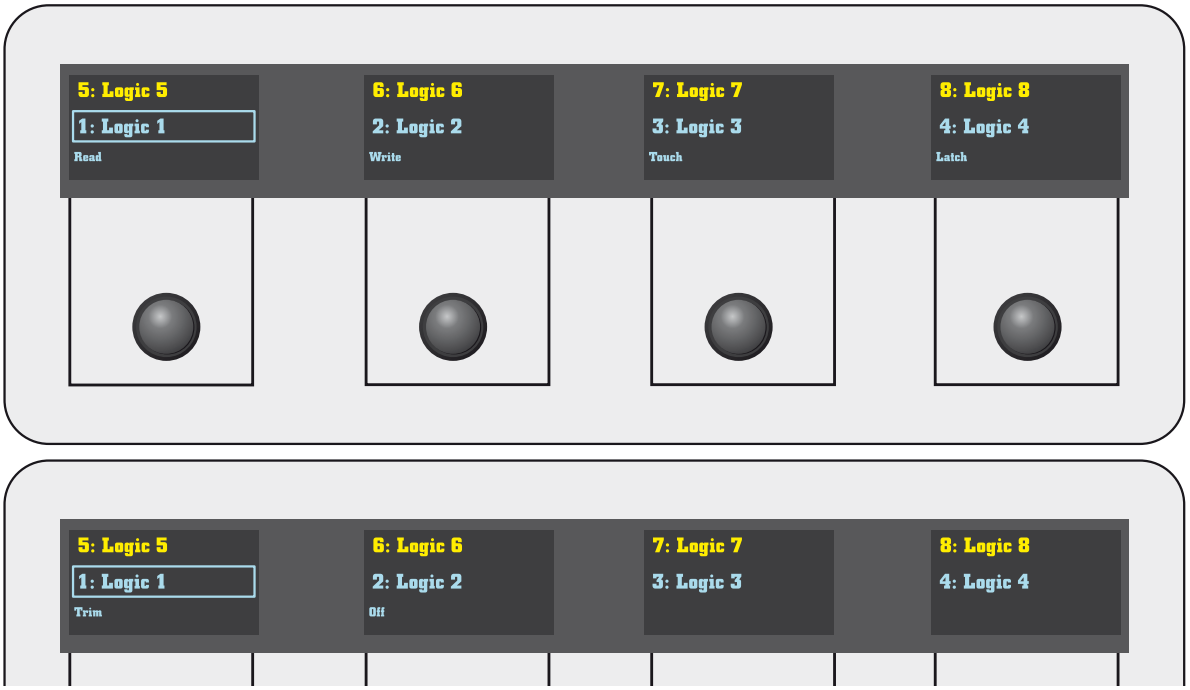
- Read
- Write
- Touch
- Latch
- Off



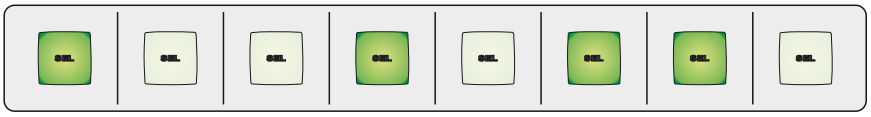
Automation Modes cont.

To access the automation mode selections using the ASP2802 control surface press the automation mode switch (21).

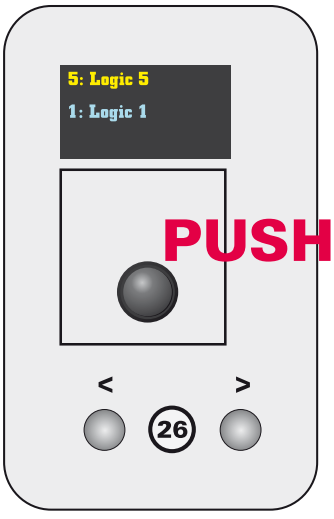
Observing the OLED displays, you should see a series of options appear above each encoder. You can page to the right using the page switches (26) to access the next set of options (trim and off). Please note that trim does not function in Logic (Pro Tools only) so off is the only functioning option on page two.



Select whichever tracks you wish to apply the automation mode to using either the large green channel select switches (18) or click+dragging in the Logic mixer with your mouse.



Press down on the encoder below the option you require to apply the setting to the selected channels.

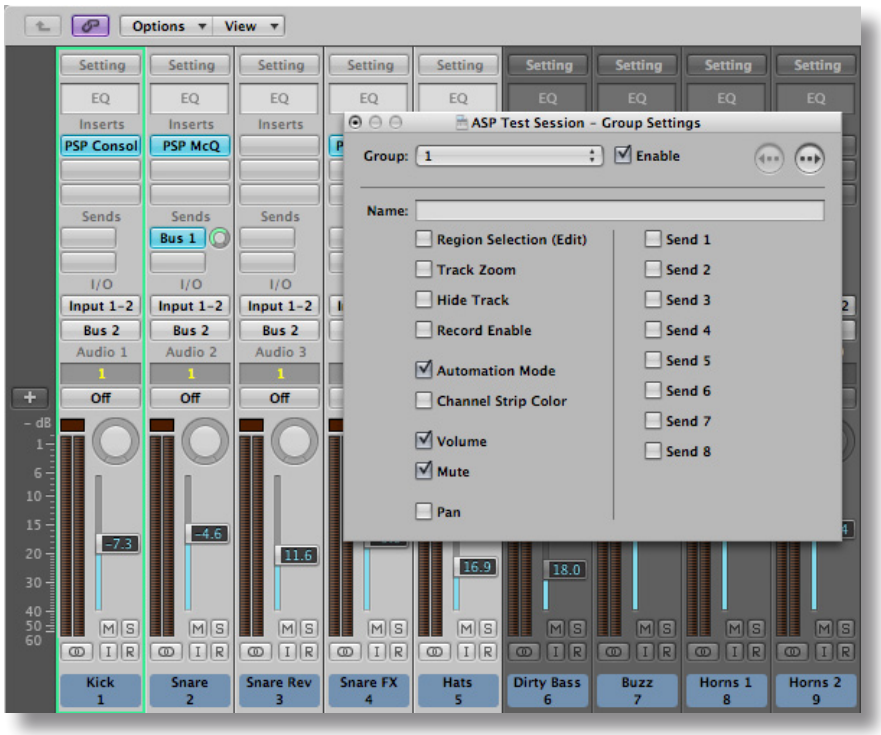


Group Mode

To access Logic's internal grouping function press the group mode switch (22) in the select panel.

If this is your first group to be created in Logic, pressing a channel select switch (18) to add a channel to the first group will bring up the Logic group settings dialogue box.

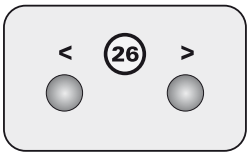
Here you can set parameters for the group (via the mouse) such as linking record enable state or channel strip colour etc.

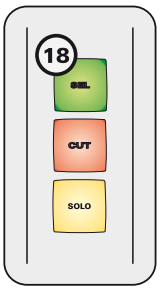


Please note that after the first group is created, creating new groups (>1) must be done via the mouse within Logic.

This is due to the limitation of the HUI™ protocol.

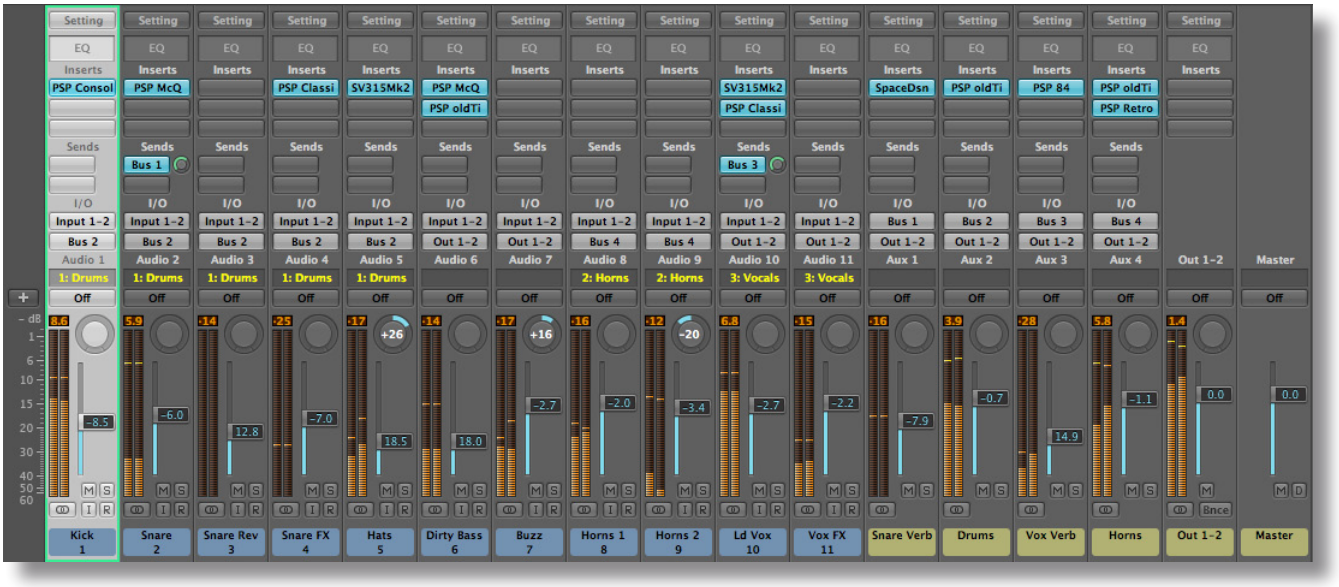
We suggest that you create the groups manually within Logic as you organise your session for the start of tracking / mixing etc. Therefore it is possible to use the ASP2802 control surface to add / remove channels from all existing groups using the page switches (26) to select the group number and the channel select switches (18) to enter or exit the current group.





Group Mode cont.

Unfortunately due to the restriction of the HUI™ protocol there is no visual feedback relayed to the ASP2802 OLED displays from Logic as to which group is selected for editing. Therefore a careful eye must be kept on Logic to see which tracks end up in each group.



Other Select Modes - Analogue Layer.

There are three further select modes available on ASP2802 which are used in the analogue layer.

For more specfic information about the functionality of these modes, please see the main analogue manual.

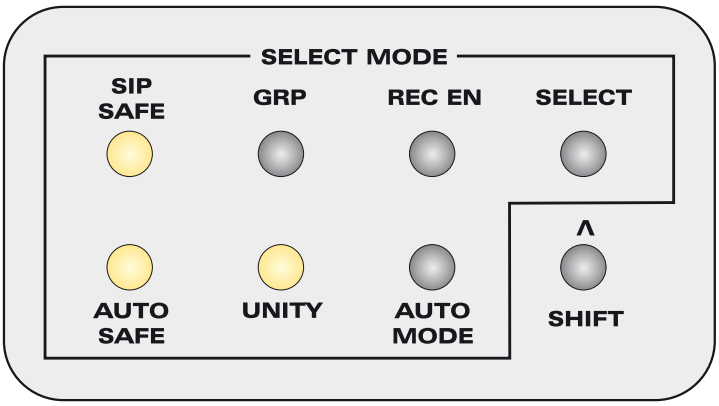
Solo-In-Place Safe - not used in the DAW layer, please consult the full ASP2802 analogue manual for more information.

Automation Safe - used in the analogue layer for isolating channels from any automation control data, ideal for trying out a new ride before recording the pass of automation.

Select Modes - Analogue Layer cont.

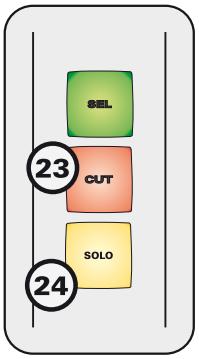
Unity - used in the analogue layer to provide a quick and easy way to position the channel fader at the unity gain (0 dB) position. This is very useful if you are setting up a stem session for analogue summing etc.

To use these functions, press the function required in the select mode panel and then the large channel select switches (18) on each and every channel that requires the application of the function selected.



Channel Solo & Cut

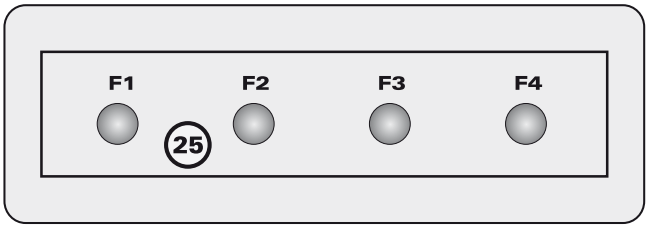
When in DAW layer the large channel cut and solo switches (23 & 24) perform mute and solo functionality within Logic.



If you are using any internal Logic grouping you may find it useful to group these functions to provide quick and easy solo or cut auditioning across a larger group of channels.

Function Keys

Function keys F1 to F4 (25) are provided for future expansion of user programmable commands.



Their default configuration within the HUI™ and Logic implementation is as follows:

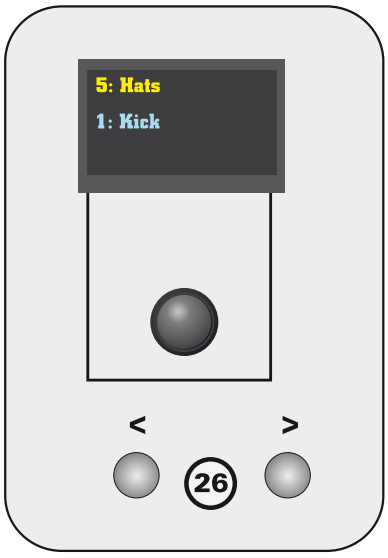
- F1 Clear overload flag in audio channels
- F2 Recall screenset 2
- F3 Recall screenset 3
- F4 Recall screenset 4

Please consult your Logic manual and Logic Control Surfaces Support document (provided with your copy of Logic) to learn about the possibilities for modifying these key commands within your host software.

Page Keys

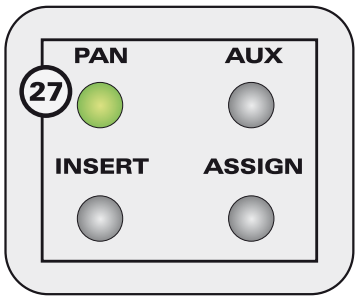
The page keys (26) are used to page through various parameters that are assigned to the rotary encoders and OLED displays.

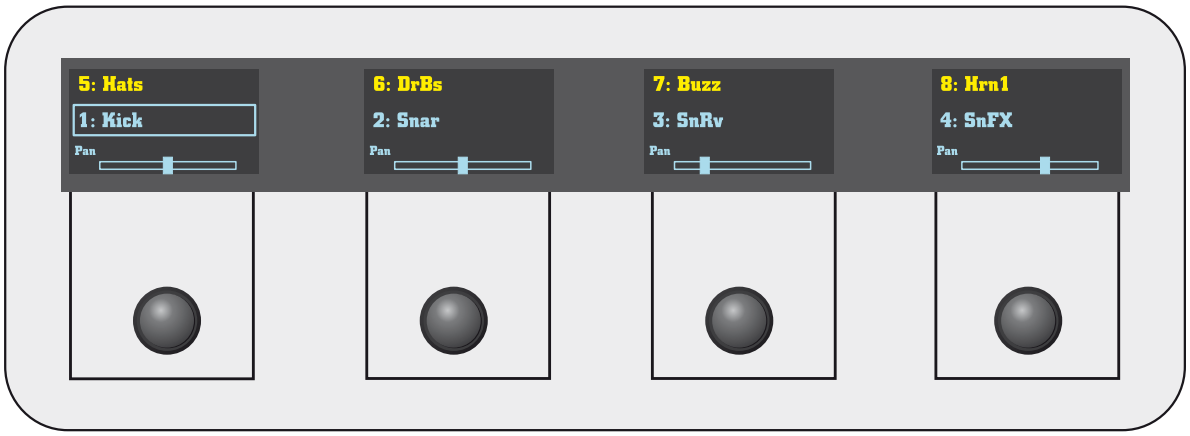
If editing aux sends, input and output routing or plugin insert effects, the parameters or host options will often cover more than one page. Scroll left to right through the available parameter pages using the page keys located beneath the left hand encoder.

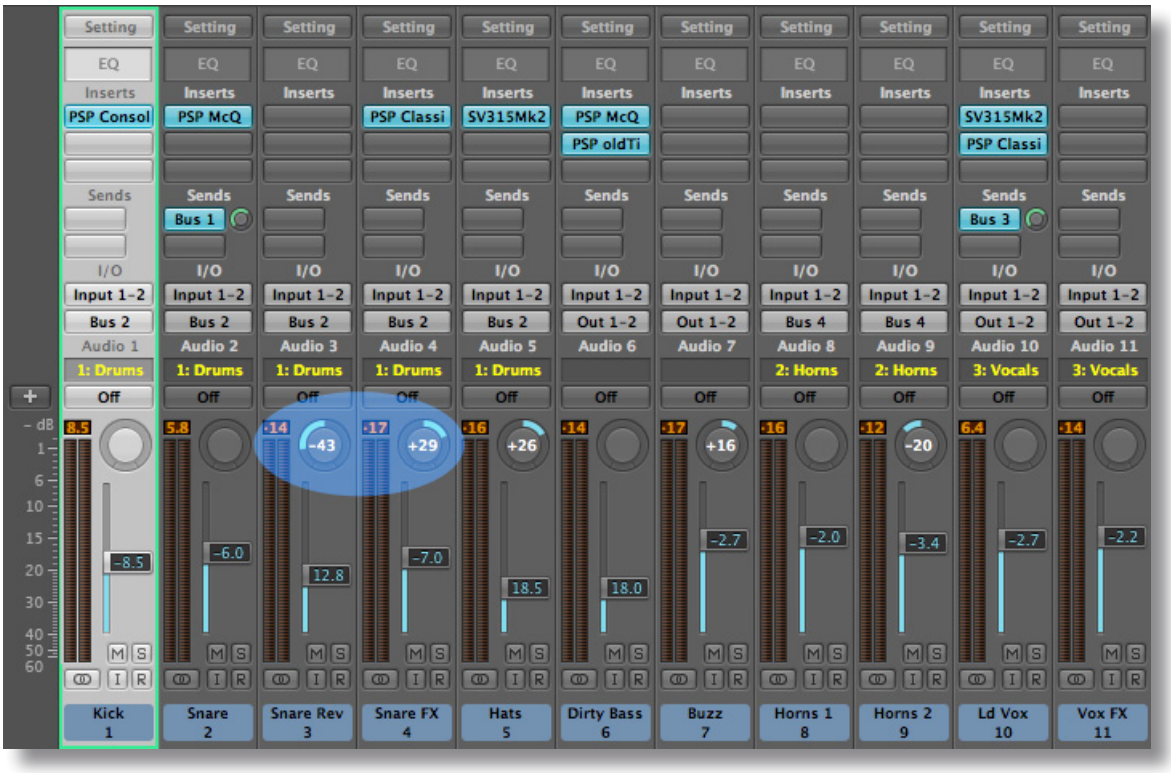


Encoder Pan Mode

When selecting pan (27) as the encoder mode on the right hand side of the control surface, the encoders become pan controls for channels 1-4 (or 5-8) of the control surface selection. The OLED displays indicate Logic channel pan position with a horizontal slider located beneath the channel name.

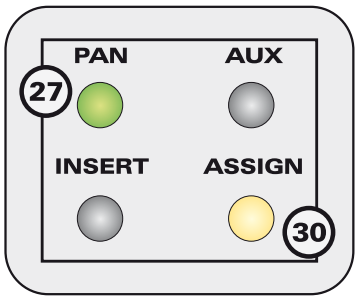




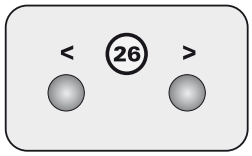


Pan Mode + Assign

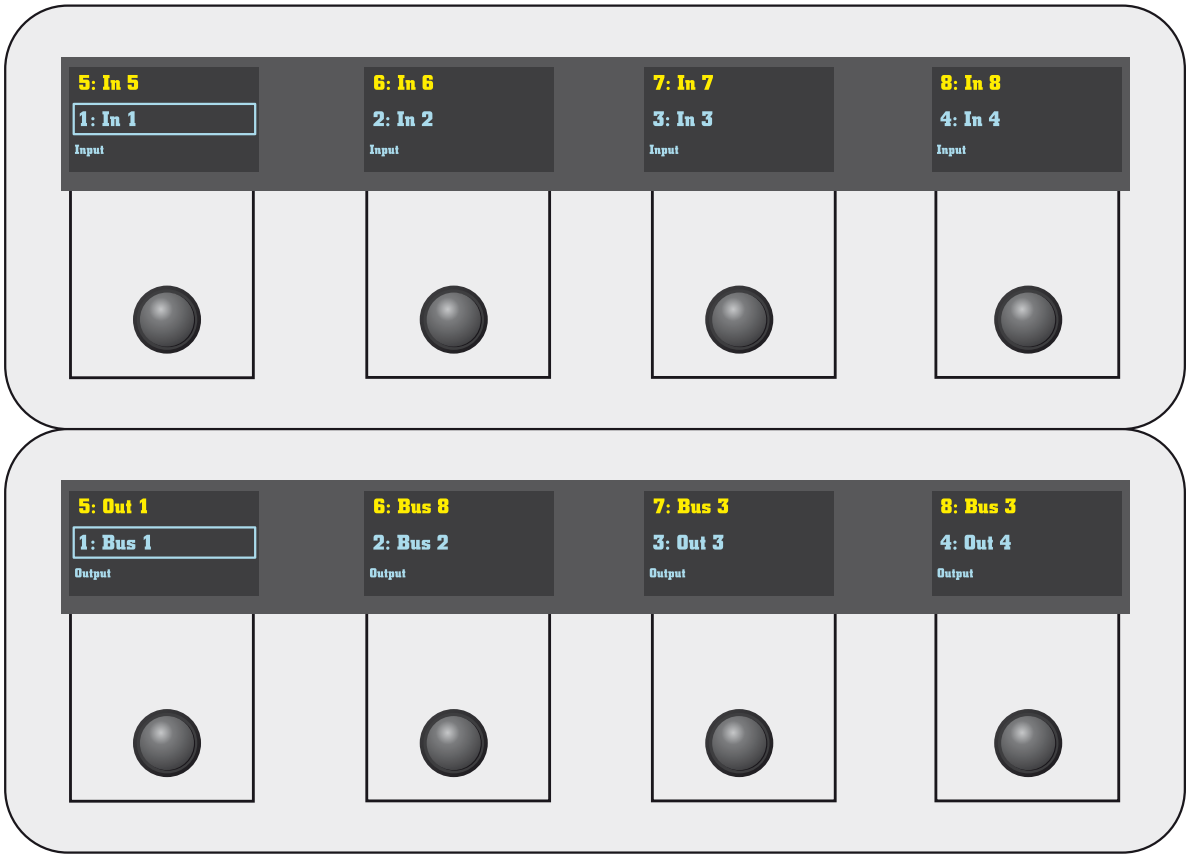
By pressing the assign key (30) when in pan mode, the encoders provide access to assigning channel inputs and outputs. This is very useful for setting up inputs for recording or bussing architecture when mixing.



Input assigns are set on page one. Use the page keys (26) to access outputs via page two. Rotate the encoder to the desired input, bus or output and press to select.



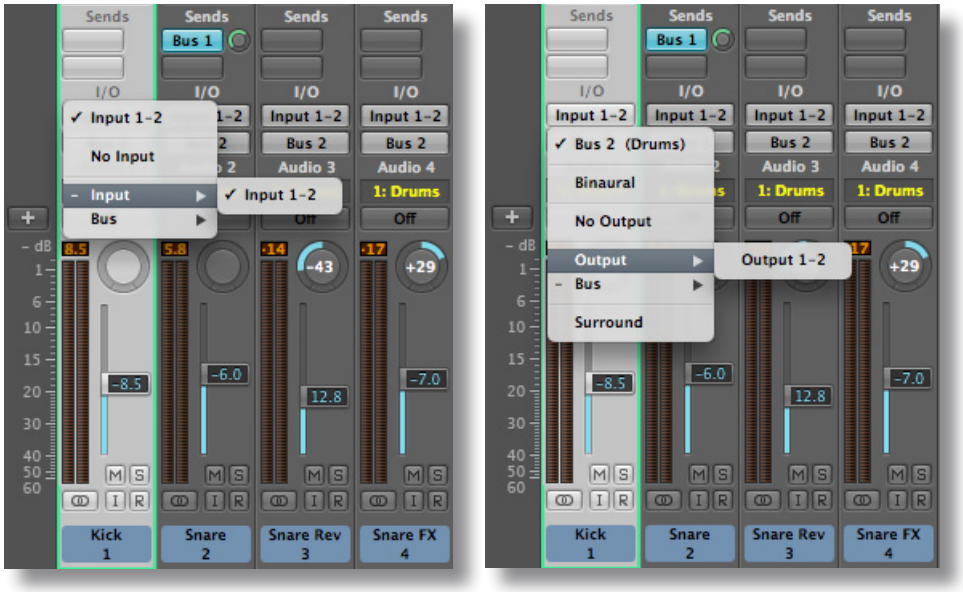
When assigning outputs, buses as well as physical outputs will appear as selections on the rotary encoders.

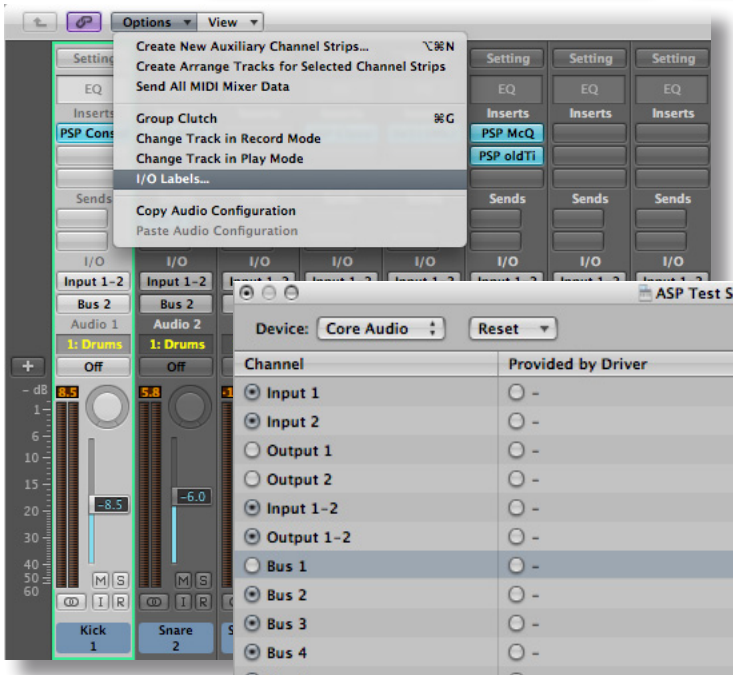


To aid you in navigating your studio setup at a faster pace, try using the Logic I/O labelling system to name buses something simple (shortform text) and useful.

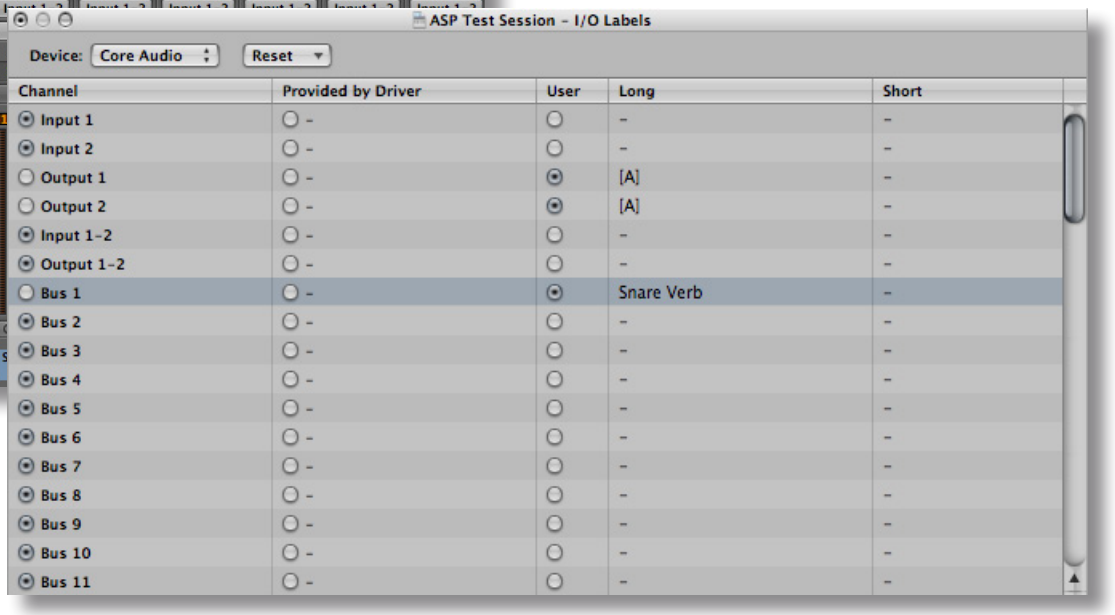
Pan Mode + Assign cont.

Logic I/O labelling can increase the speed of your session setup time. If you have a studio that is setup with a fixed routing routing system and / or a typical 'normalled' signal path, this is a very useful tool.



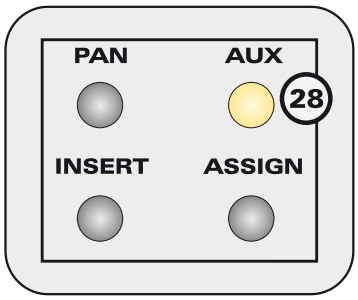


Please bear in mind that the HUI™ protocol only relays 4 characters to the control surface therefore short names may be more useful.

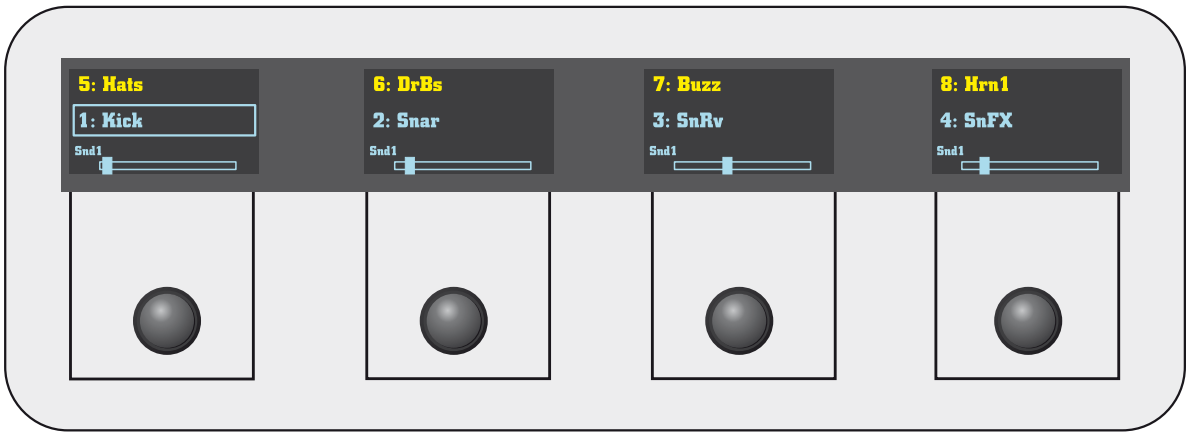


Encoder Aux Mode

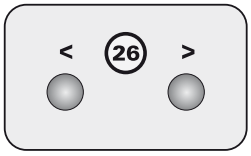
When selecting aux (28) as the encoder mode on the right hand side of the control surface, the encoders become aux send controls for channels 1-4 (or 5-8) of the control surface selection.

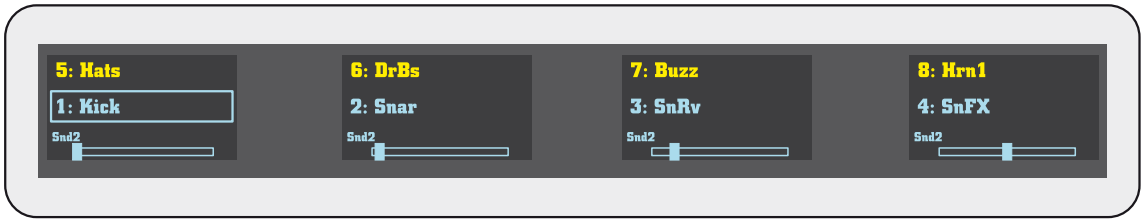


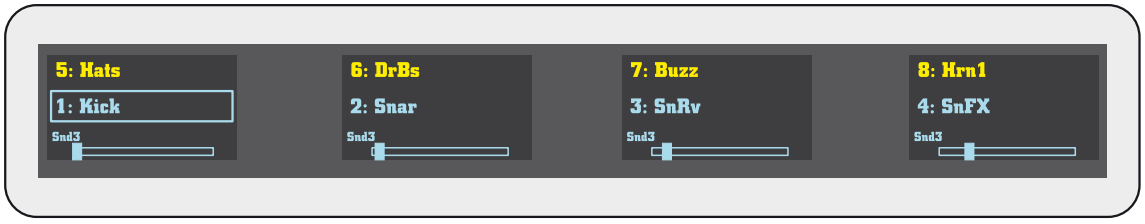
The OLED displays indicate Logic channel send level with a horizontal slider located beneath the channel name.



Use the page keys (26) to select other available sends (up to five sends).

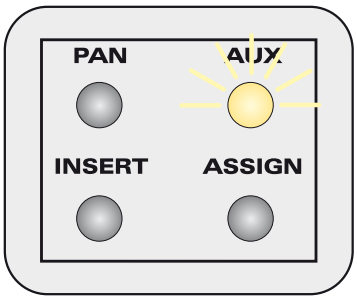




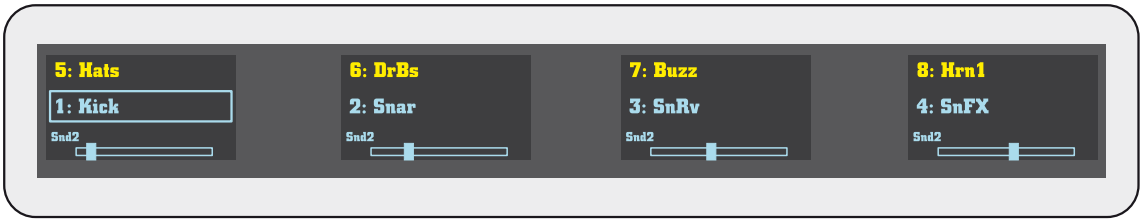


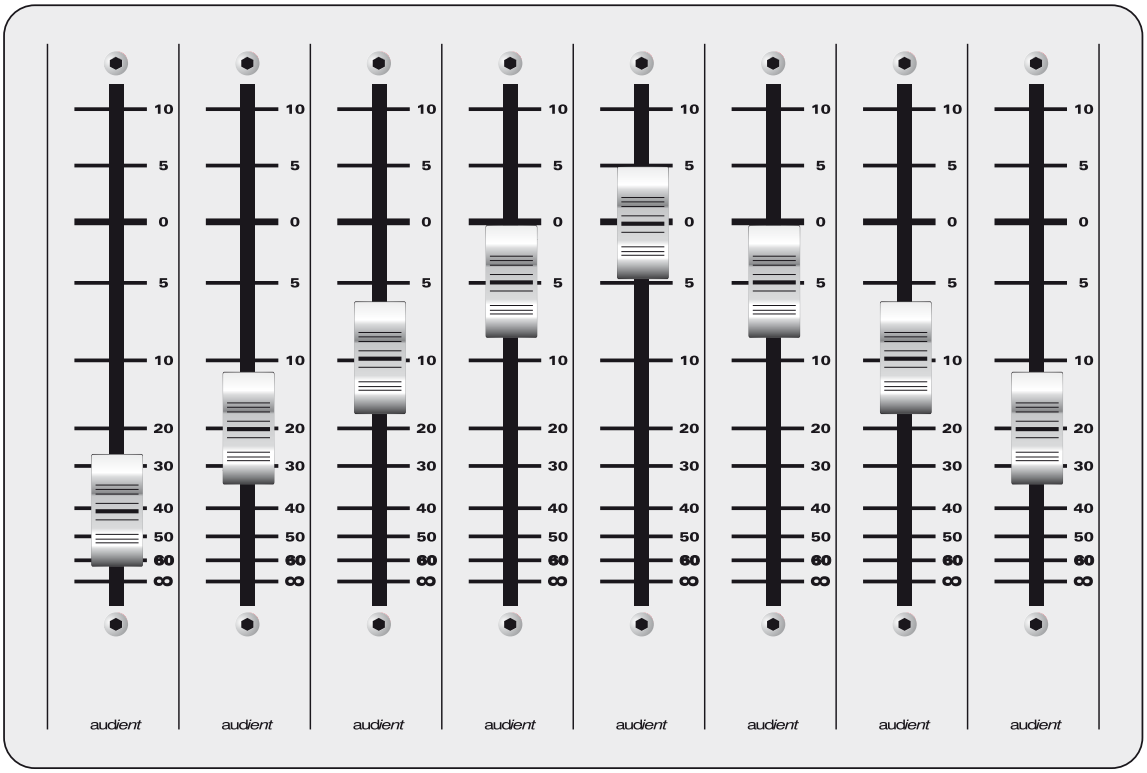
Aux / Fader Flip

When in aux mode pressing the aux switch (28) again will flip the aux send encoders on to the 8 channel faders. This provides faster access to send levels across an 8 channel bank and is very useful for setting up headphone mixes or fx sends.

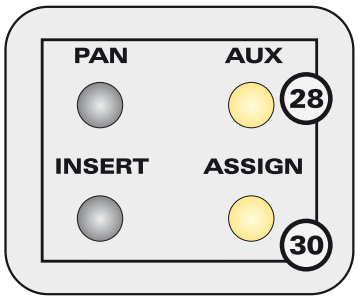


This mode is indicated by a flashing aux switch LED.





Aux Mode + Assign



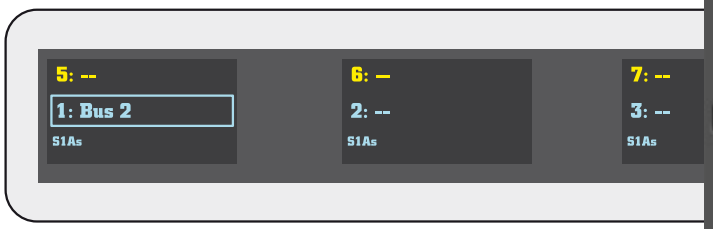
When in aux mode, pressing the assign key (30) provides access to instantiating new sends and re-routing existing aux sends within Logic.

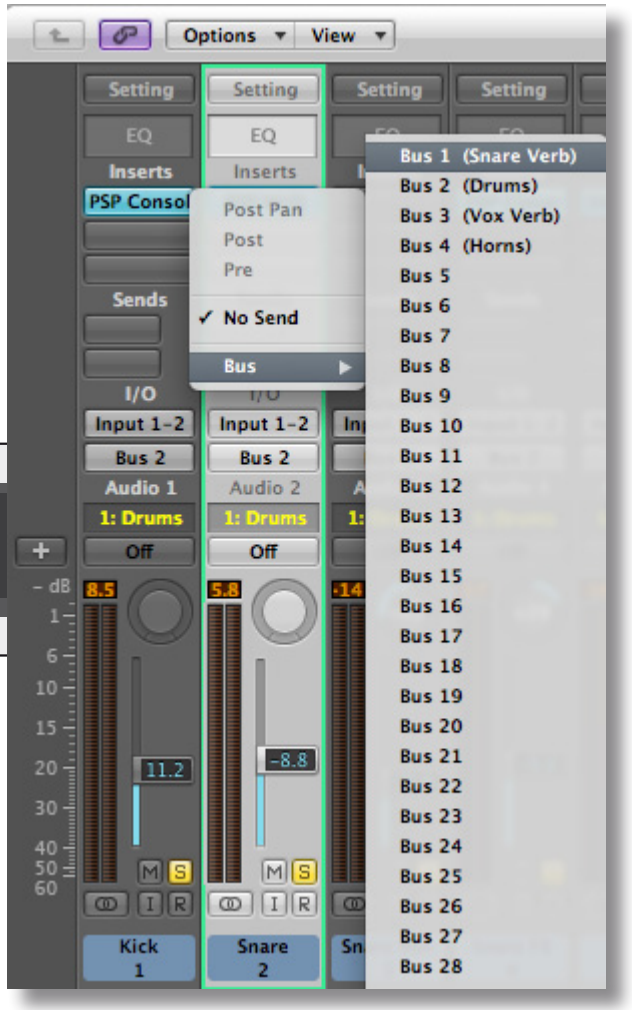
To instantiate a send press the assign key and use the page keys (26) to select the send slot you wish to use (S1, S2, S3, S4 or S5).

Rotate the encoders to scroll through the available bus destinations options available within Logic.

Once you have reached your desired send destination, press the encoders on the channel you wish to instantiate the send.

You will notice that the destination state will change from flashing to fixed when assigned.

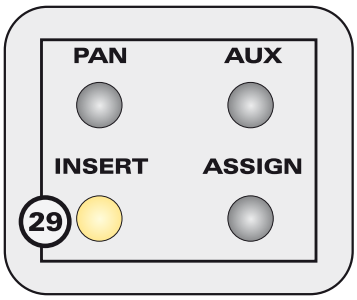




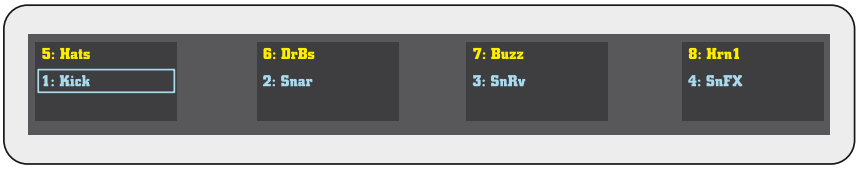
To edit an existing send destination page to the appropriate send slot and select a new destination via the rotary encoders then press the corresponding encoder to reassign.

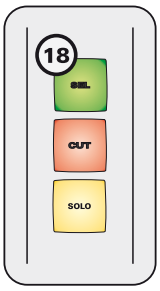
Insert Mode

The ASP2802 control surface can be used to instantiate and control insert plugins within Logic.

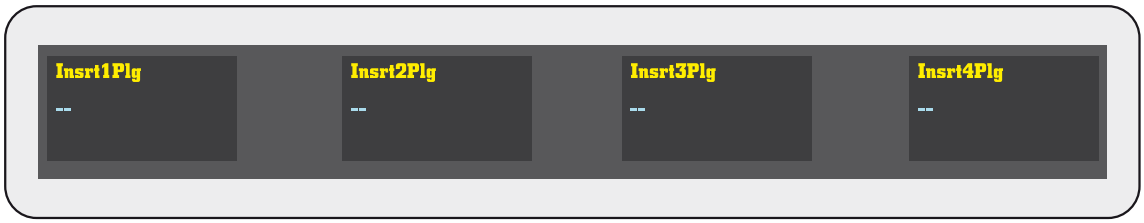


Firstly select the track you wish to instantiate the plugin insert on via the large green channel select switches (18) banking or nudging the control surface if needed.

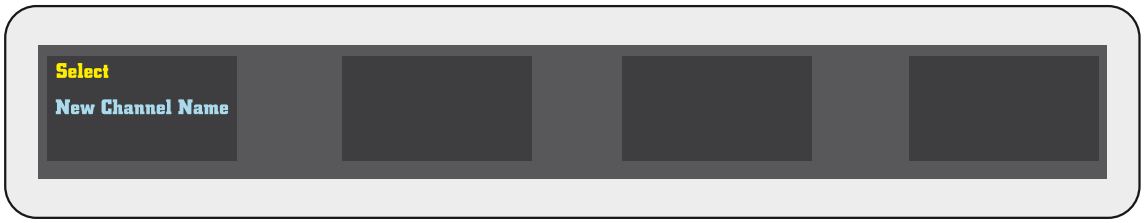




Once your channel is selected, press the insert switch (29) in the encoder mode panel. Note that the OLED display changes to show you the first available four insert slots.

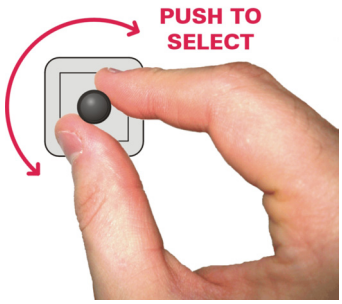


Please note that if you wish to change your channel selection or repeat the following process on another channel, the OLED will update for a few seconds to show this new selection in insert mode:

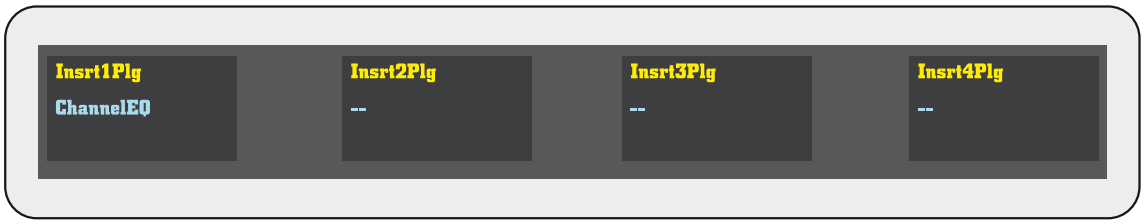


Also please note that the assign switch is disabled in insert mode.

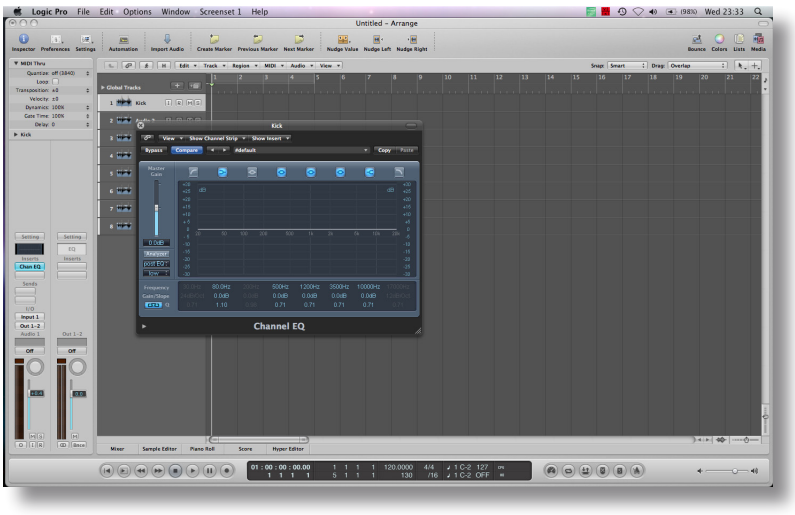
Insert Mode cont.



To select a plugin for instantiation, rotate the rotary encoder for the corresponding insert slot to scroll through the plugin list. Once the desired plugin in located, press the encoder down to instantiate the plugin in Logic.



At this point, notice that the plugin window will open within Logic. To close this window tap the insert button.



If the plugin has been added manually from within Logic, you may have to refresh the ASP2802 display list by tapping the insert switch once more. To open a plugin window that is currently closed just tap on the corresponding encoder. To close the plugin window, press the insert switch again.

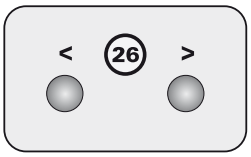
You will notice that when using the encoder switch to open a loaded plugin window, the OLED display also changes to now reflect plugin editing mode.

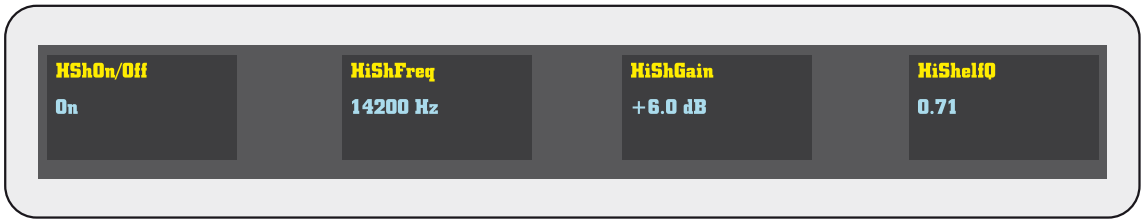
Insert Editing Mode

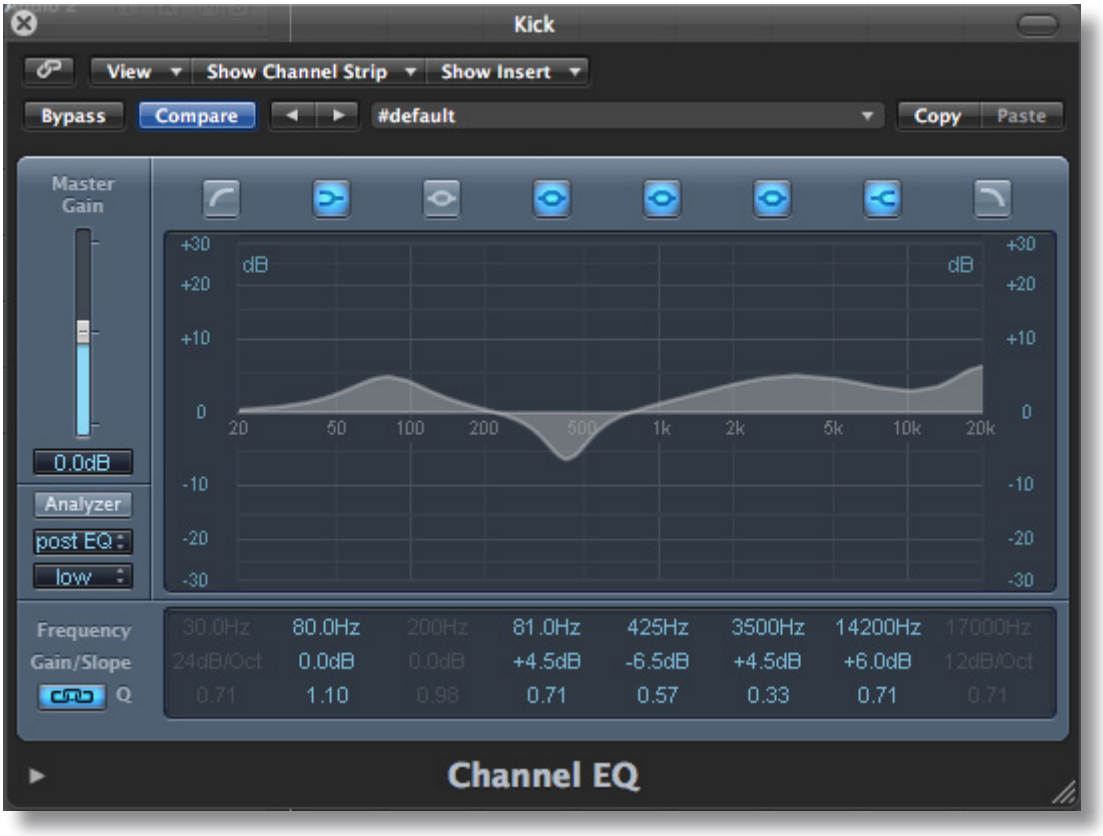
To edit plugin parameters, select the desired plugin with the corresponding encoder (press down). The plugin window will open and the first page of four parameters will map to the encoders. The OLEDs will display the parameter name and the parameter value.

The example below illustrates one page of parameters for the Logic Channel EQ.

Use the page switches (26) to navigate through all available parameters. Use the encoders to edit values. Press the insert switch to exit edit mode and close the plugin window.





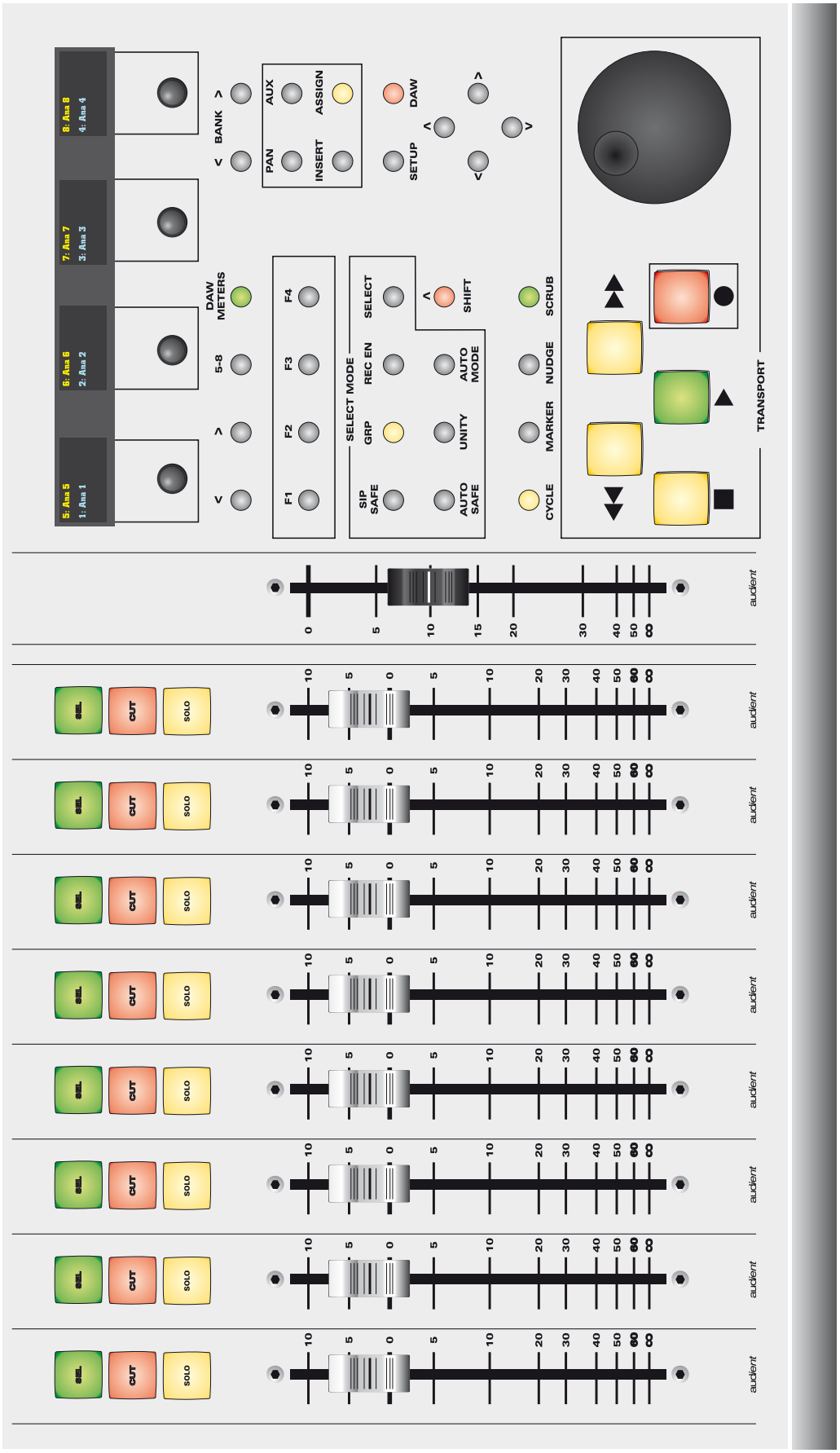


Future Updates

For any future updates to the control surface functionality of ASP2802, please see the ASP2802 webpage and latest firmware available online at **www.audient.com**.

We hope you enjoy your new control surface and analogue console.

Thanks from the Audient team.


5: Ana 5
1: Ana 1
6: Ana 6
2: Ana 2
7: Ana 7
3: Ana 3
8: Ana 8
4: Ana 4
DAW METERS
5-8
BANK
AUX
PAN
INSERT
ASSIGN
DAW
SETUP
F1
F2
F3
F4
SELECT MODE
SIP SAFE
GRP
REC EN
AUTO SAFE
UNITY
AUTO MODE
SELECT
SHIFT
CYCLE
MARKER
NUDGE
SCRUB
TRANSPORT
SEL
CUT
SOLO
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ASP 2802

DUAL

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