SIGNAL FLOW

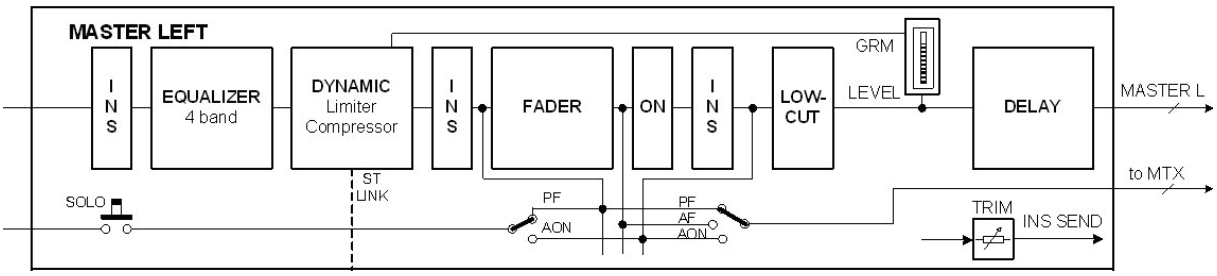


Figure 5-1: The Signal Flow In An LRC Master Or A BUS Master.

Only one of the three possible insert points can be used per master at any time.

GENERAL

The LR and C Masters are always operated with their dedicated master fader strips in the master bay. The parameters of these busses are controlled via the Master Processing Page (see Figure 5-2).

The Soundcraft Vi Series™ allows three different ways to access, control the level of , and change the parameters of, the other 32 output busses. These are:

via the Master Bay's Output Strips, and selecting the fader page* required,

via all of the Input Strips, using the [ALL BUSSES] key,

via the Vistonics™ buttons and encoders on the master section screen.

* For detailed information about Layering see chapter 8.

L,R & C Master Processing

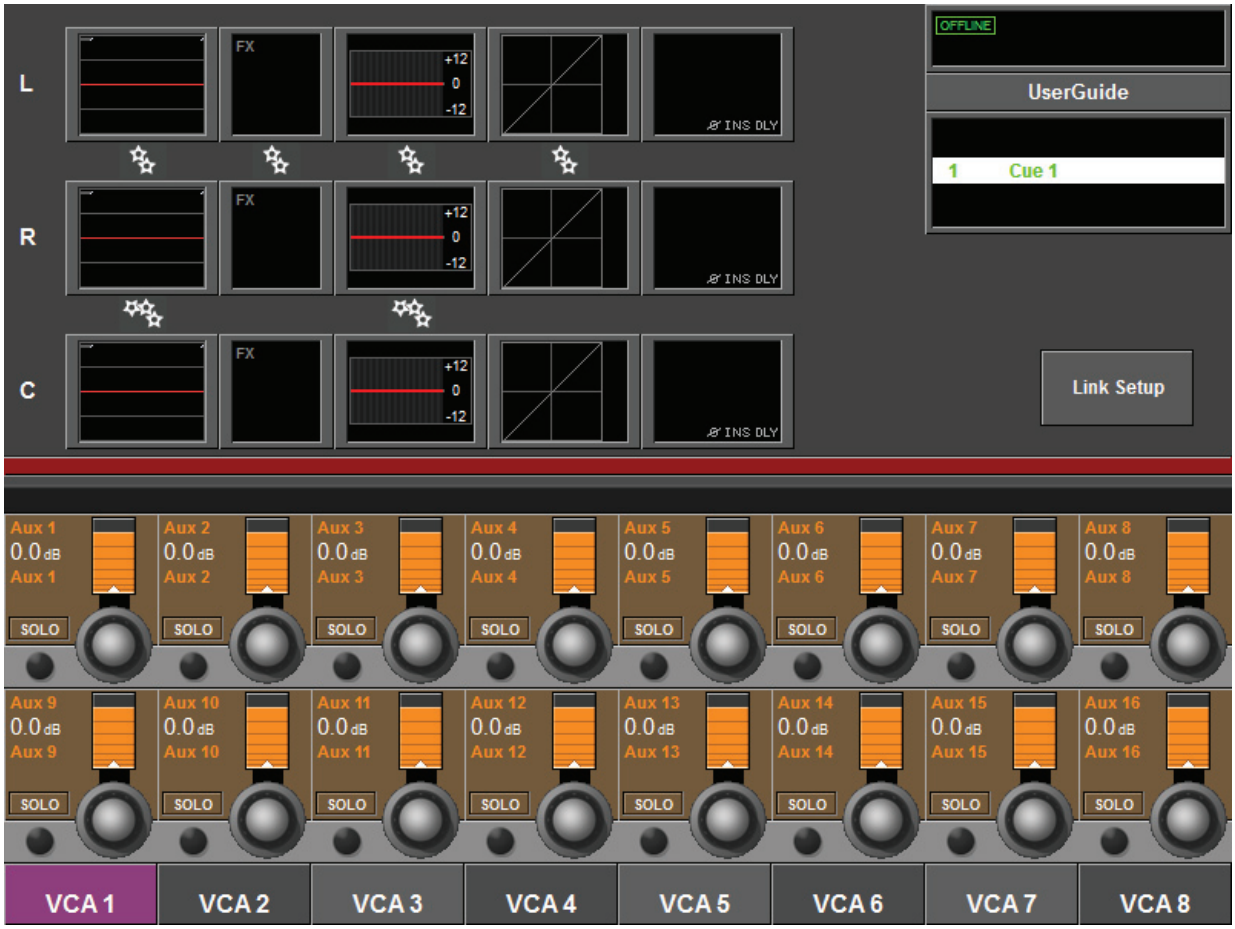


Figure 5-2A: Master Screen Displaying The Master Busses Processing Page.

This page is accessed by pressing the [SEL] key which is located below the L, R & C master faders. The Master processing fields are shown in the Meter Area of the Master Screen.

In order to change the parameters for EQ, Dynamics or Pan, the appropriate area on the touch-screen must be pressed; doing so will open a page whose VST area is similar to the lower half of Figures 5-9, 5-10 or 5-11.

Note: When selecting the PAN area, the page which will be displayed will be similar to Figure 5-11 except that the PAN, MASTER LR and MASTER C fields will not be present.

Note: The output levels of the L R & C Master outputs are always controlled by their dedicated faders.

MASTER EQ LINKING (V2.0 Software and above)

Figure 5-2B : Master Screen Displaying The Master Busses Processing Page with EQ Linking.

The LRC Master busses can have their Parametric and/or Graphic Equaliser sections linked for easier adjustment. Left and Right busses can be linked, or the Centre bus can be added to the linked L&R so that all three busses can be adjusted together. It is not possible to link Left and Centre or Right and Centre.
The linked state is indicated at all times by a pair of white 'gear wheel' icons between the L and R Parametric and Graphic EQ touch fields.
A similar icon with 3 'gear wheels' indicates that the C bus is also linked.
To link or unlink the EQ or GEQ sections

- Press [SEL] below the LRC Master faders to open the Masters strip display.
- Press the {LINK SETUP} button in the bottom right corner of the Master strip display.
- Touch either of the L or R {EQ} touch fields to toggle the linked state on and off for the EQ. Touch the C {EQ} field to add/subtract the C bus EQ to the linked L/R pair.
- Touch either of the L or R {GEQ} touch fields to toggle the linked state on and off for the GEQ. Touch the C {GEQ} field to add/subtract the C bus GEQ to the linked L/R pair.

The fields that are available to be toggled in and out of the linked state are shown with a highlighted white border around the touch field when {LINK SETUP} is active.
Note that the FX fields and the Dynamics fields of the L and R busses are permanently linked, and cannot be toggled in the Link Setup mode.

Default settings

The settings of the EQ and GEQ Linking for the Master busses is stored in the current Show.
The links are set to ON for L,R and C busses for both EQ and GEQ, in the factory default Shows that are supplied with the console.

MASTER BAY OUTPUT STRIPS

The first way of controlling and changing the parameters of the 32 output busses described earlier is as follows.

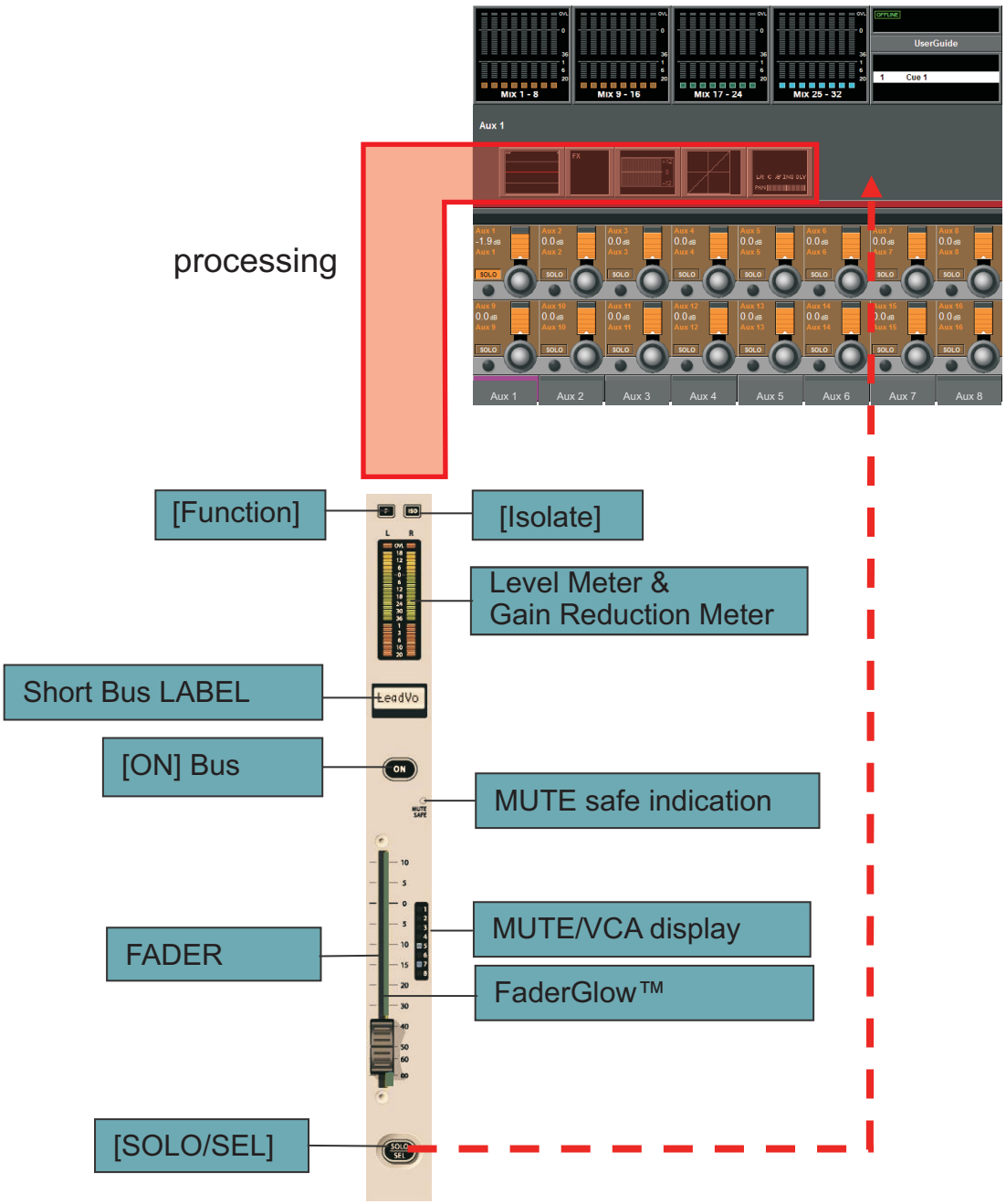


Figure 5-3. A Master Bay Strip.

In order to select the desired output from the 32 possible choices, the correct fader page, A-D, must first be assigned to the master bay (see Figure 8-5 for the keys). Once this is done, the user can select the desired fader to control the output level, and pressing its [SOLO/SEL] key opens the processing Area in the Master screen (see Figure 5-4).

HINT: [METER LOCK] must be off, otherwise the processing strip will not be displayed. If multiple Output Solo are activated the processing for the last-pressed Master Solo is displayed.

Bus Master Processing

Figure 5-4: Master Screen Displaying Bus Processing Page.

The Bus Master processing is shown in the Input Meter Area of the Master Screen. In order to change the parameters for EQ, Dynamics or Pan, the appropriate area on the touch-screen must be pressed; doing so will open a page whose VST area is similar to the lower half of Figures 5-9, 5-10 or 5-11.

HINT: Stereo Busses are linked. Therefore the processing strip will control both channels.

INPUT BAY STRIP USING [ALL BUSSES]

The second method of controlling, and changing the parameters of, the 32 output busses described earlier is as follows.

If the [ALL BUSSES] key is active (see Figure 8-6), the input strips on all of the input bays will be switched to control the 32 output busses.
Once this is done, the user can select the desired fader to control the required output level. In addition, the VST encoders can be used to change the bus type (Aux, Grp or Mtx) and format (Mono or Stereo).

In order to change the parameters for EQ, Dynamics or Pan, the appropriate area on the touch-screen above the required strip must be pressed; doing so will open a page similar to Figures 5-9, 5-10 or 5-11.

In the case of Vi4 and Vi2, not all of the busses will be visible at the same time in the All Busses layer, due to the limited number of faders. In this case, the Output Meter screen can be touched to bring the selected 8 busses onto the far right-hand fader bay.

(In fact this method of selecting busses onto the right-hand fader bay also works in Input fader pages, not only for All Busses).

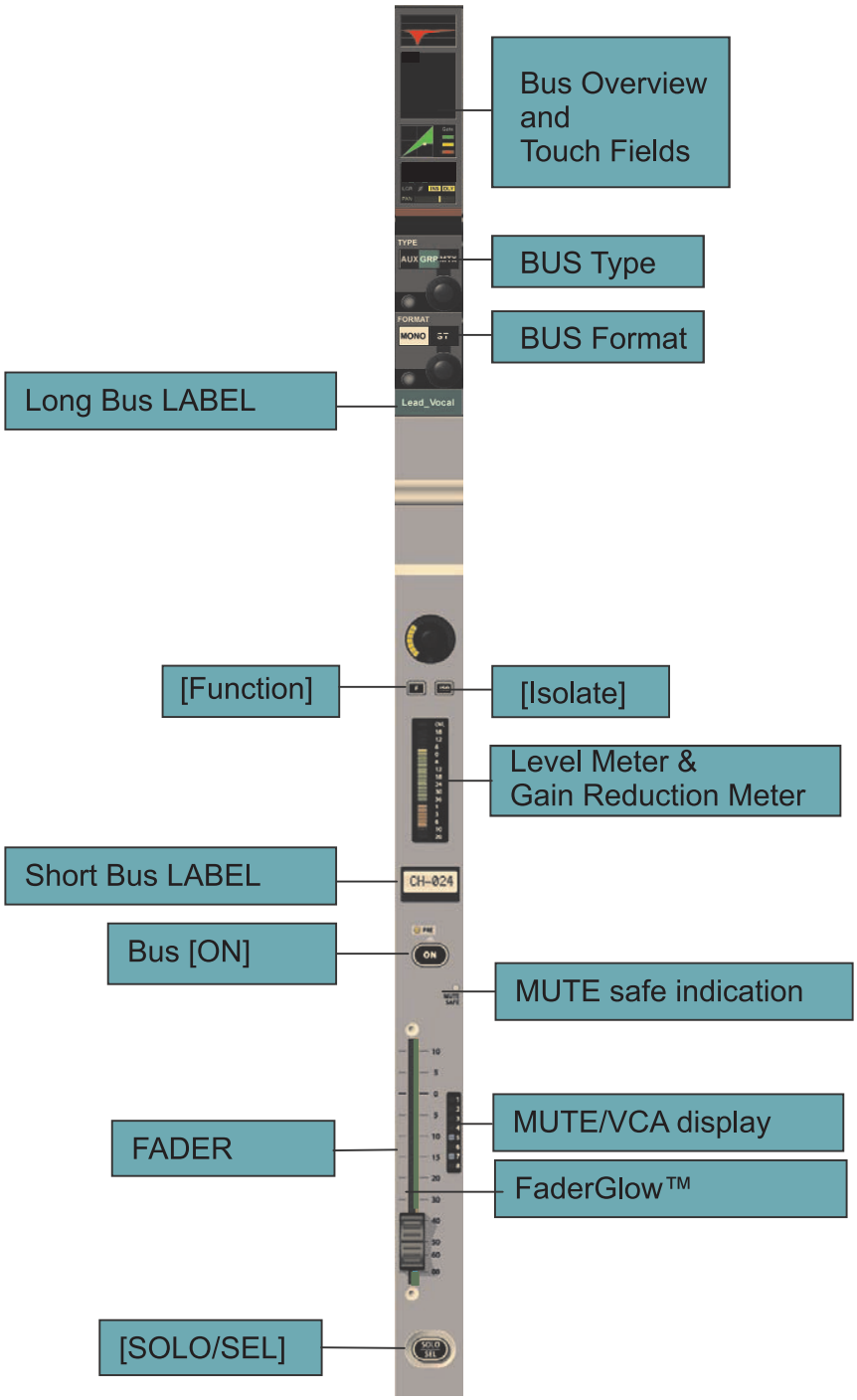


Figure 5-5.Input Bay Strip With [ALL BUSSES] Active.

MASTER BAY VISTONICS™ ENCODERS & KEYS

The third way of controlling, and changing the parameters of, the 32 output busses described earlier is as follows.

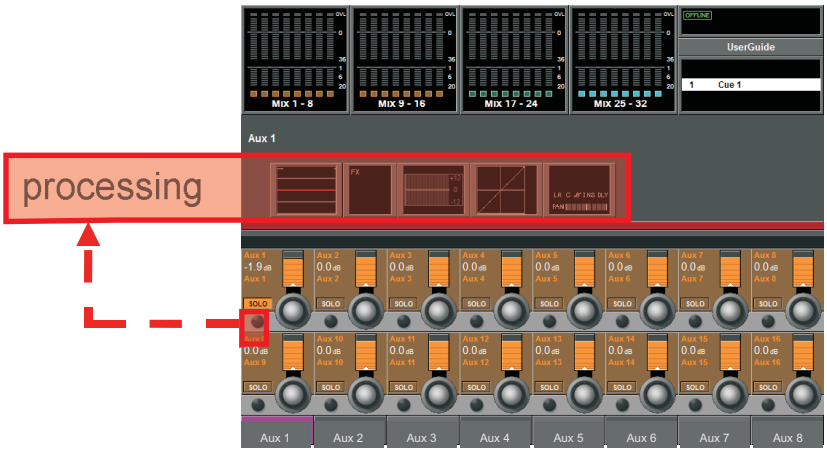


Figure 5-6. Output VST Switches.

The VST encoders control the levels of the displayed output busses. To select the desired range of busses the user must press [Page A] or [Page B] to the right of the screen (see Figure 5-7). The [PAGE A] key displays busses 1-16 in the VST area, [PAGE B] displays busses 17-32.

To change output bus parameters the user must first ensure that the [SOLO SEL] key on the VISTONICS SWITCH FUNCTION panel is active(see Figure 5-7). When this is done pressing the {SOLO} VST key opens the processing Area in the Master VST screen (see Figure 5-6). In order to change the parameters for EQ, Dynamics or Pan, the appropriate area on the touch-screen must be pressed; doing so will open a page whose VST area is similar to the lower half of Figures 5-9, 5-10 or 5-11.

HINT: [METER LOCK] must be disabled, otherwise the processing strip will not be displayed.

VST Key Function

The functionality of the VST key can be set, via the VISTONICS SWITCH FUNCTION panel,to TB Assign, ON/OFF or SOLO/SEL, where SOLO/SEL is the default setting. The function is the same for ALL Encoders in both pages. The [PAGE A] key displays busses 1-16 in the VST area, [PAGE B] displays busses 17-32.

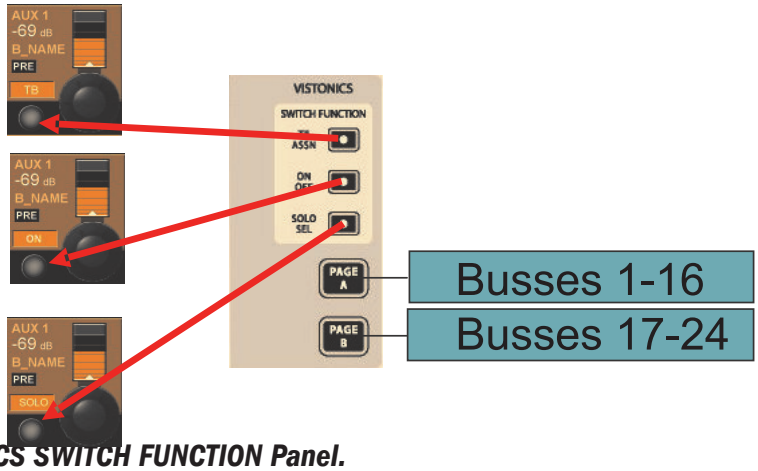


Figure 5-7: VISTONICS SWITCH FUNCTION Panel.

CHANGING OUTPUT BUS PARAMETERS

The following pages shows bus master processing using the Input strip (All Busses layer) mode as an example. Parameter changing is done in the same way if either of the other two ways of accessing bus masters is used.

Changing A Parameter Of A Bus

* Press the desired touch field, the corresponding VST Area will open
* change the parameter
* Press the touch field again to go back to the default VST view
  or
* Press another touch field.

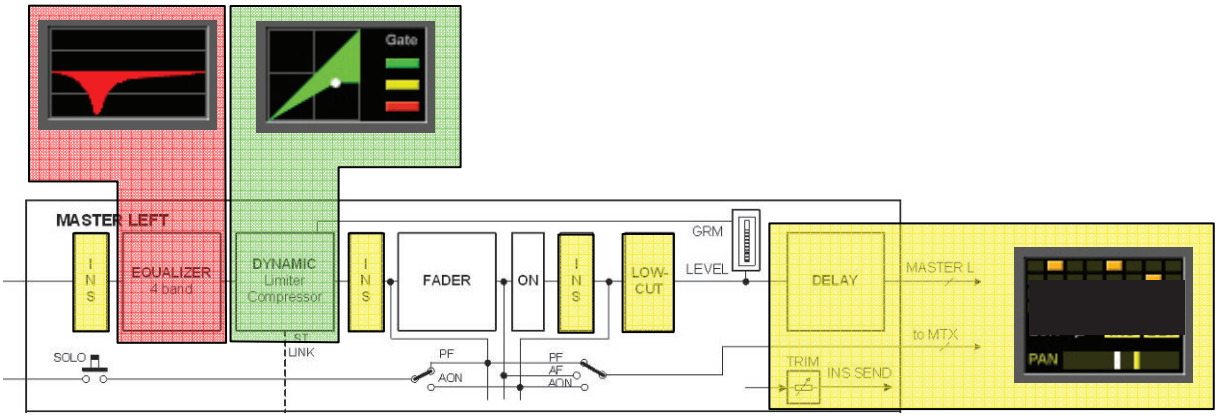


Figure 5-8: The Relationship Between Touch Fields And Master Functions.

EQUALISER

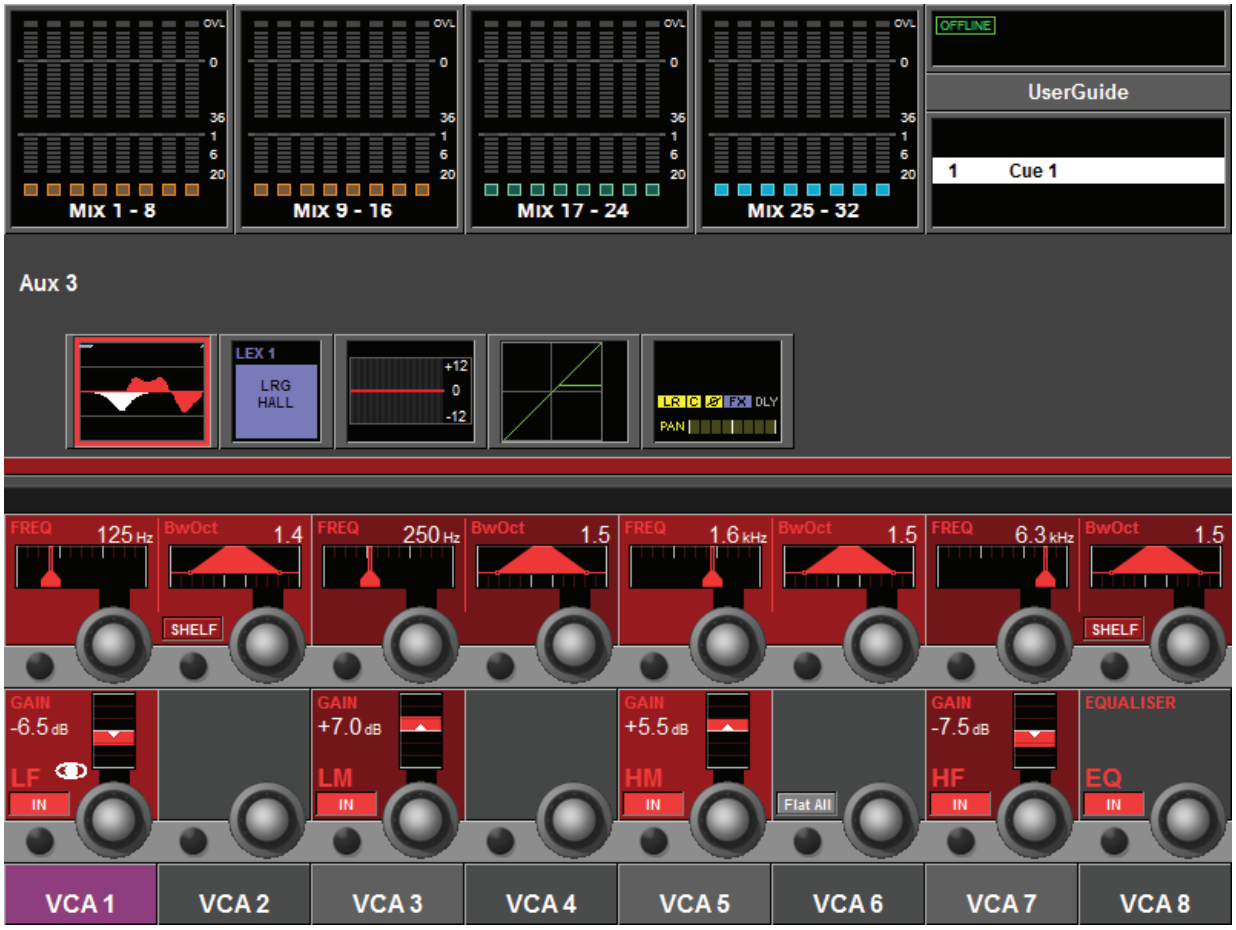


Figure 5-9. Equaliser Controls.

The controls are identical to those of the input channels' EQ.

The VST encoders and keys allow the 4-band parametric EQ to be adjusted and switched in or out of circuit.

DYNAMIC

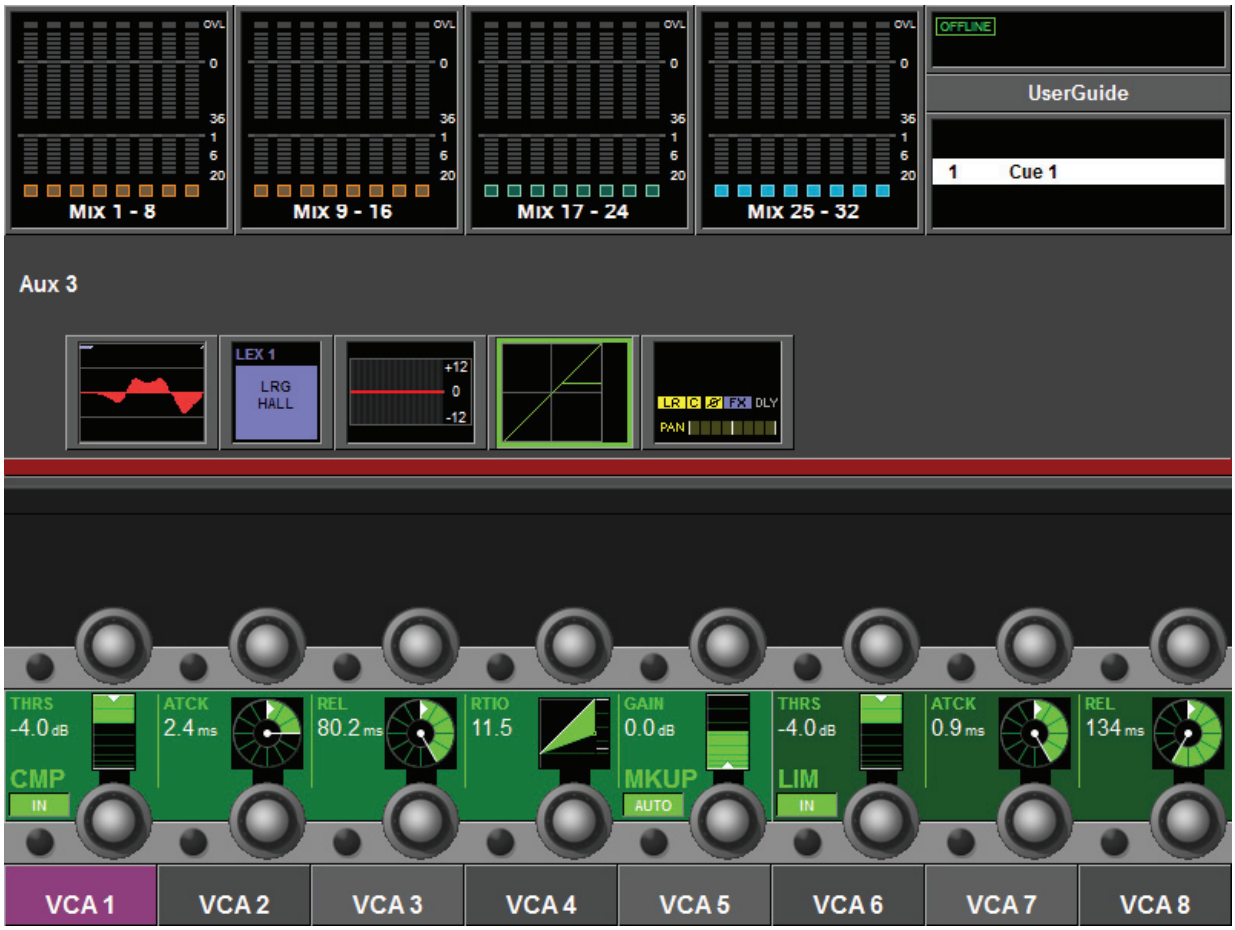


Figure 5-10. Dynamics Controls.

The controls are identical to those of the input channels, except there are no Gate or De-Esser modes available for output busses.

PAN

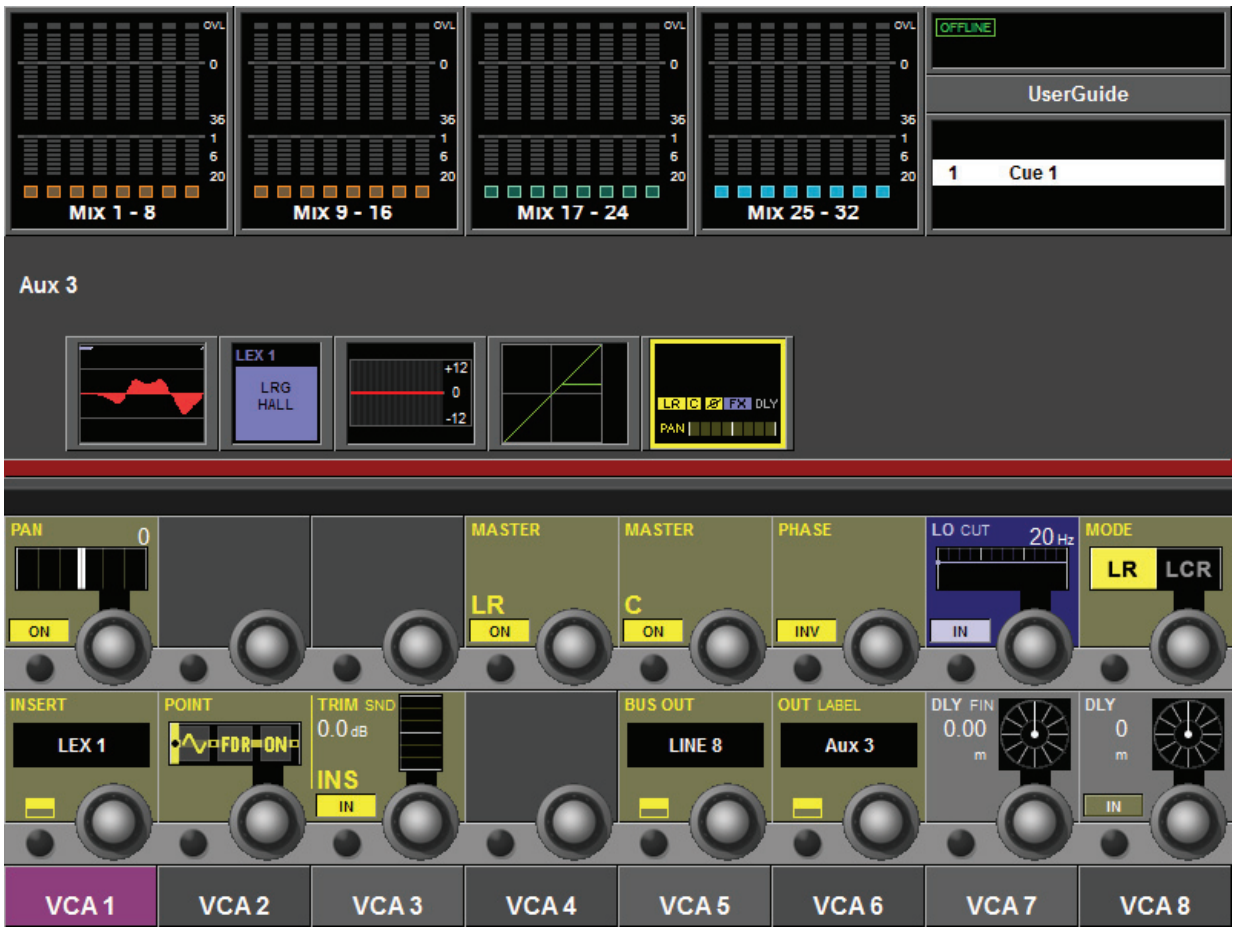


Figure 5-11. Pan.

The controls for the PAN section and Insert section are similar to those of the input channels.

Note that for L, R and C master busses, the PAN, MASTER LR and MASTER C fields are not available.

The extra functions unique to output busses are as follows.

LOW CUT Field

The encoder adjusts the Low cut frequency in the range 20 to 600Hz.
{IN} switches the Low Cut filter in and out.

PHASE Field

{PHASE} inverts the phase at the output.

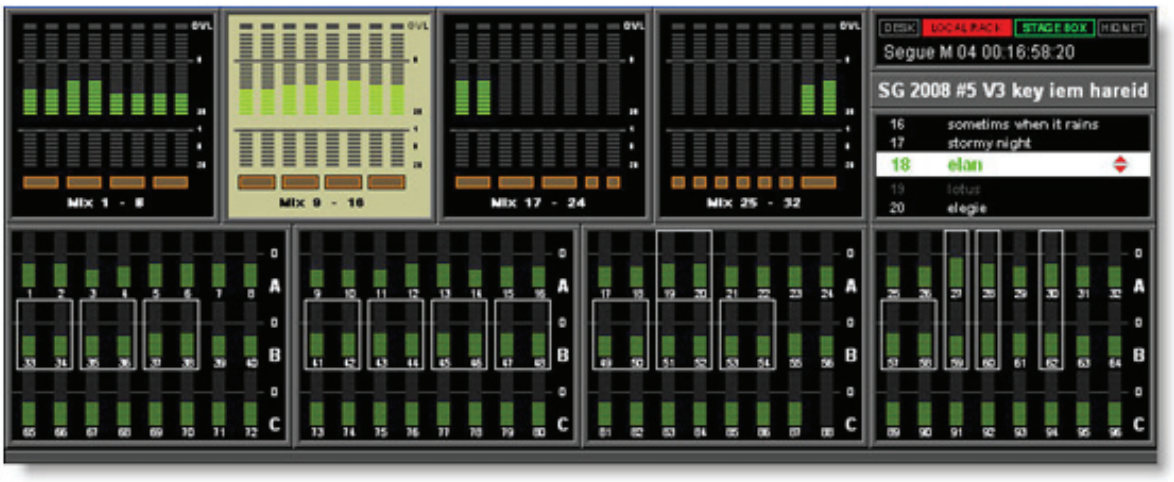
DLY & DLY FIN field

Encoder changes the input delay in milliseconds, metres, or feet & inches. The DLY FIN control allows fine adjustment in 0.02ms/.02 mtrs/0.1" steps.
The DLY control allows coarse control with range of 0.. 100 mS; 0..34mts; 0..112 feet
{IN} enables the delay function.

Output Buss Temporary Activation

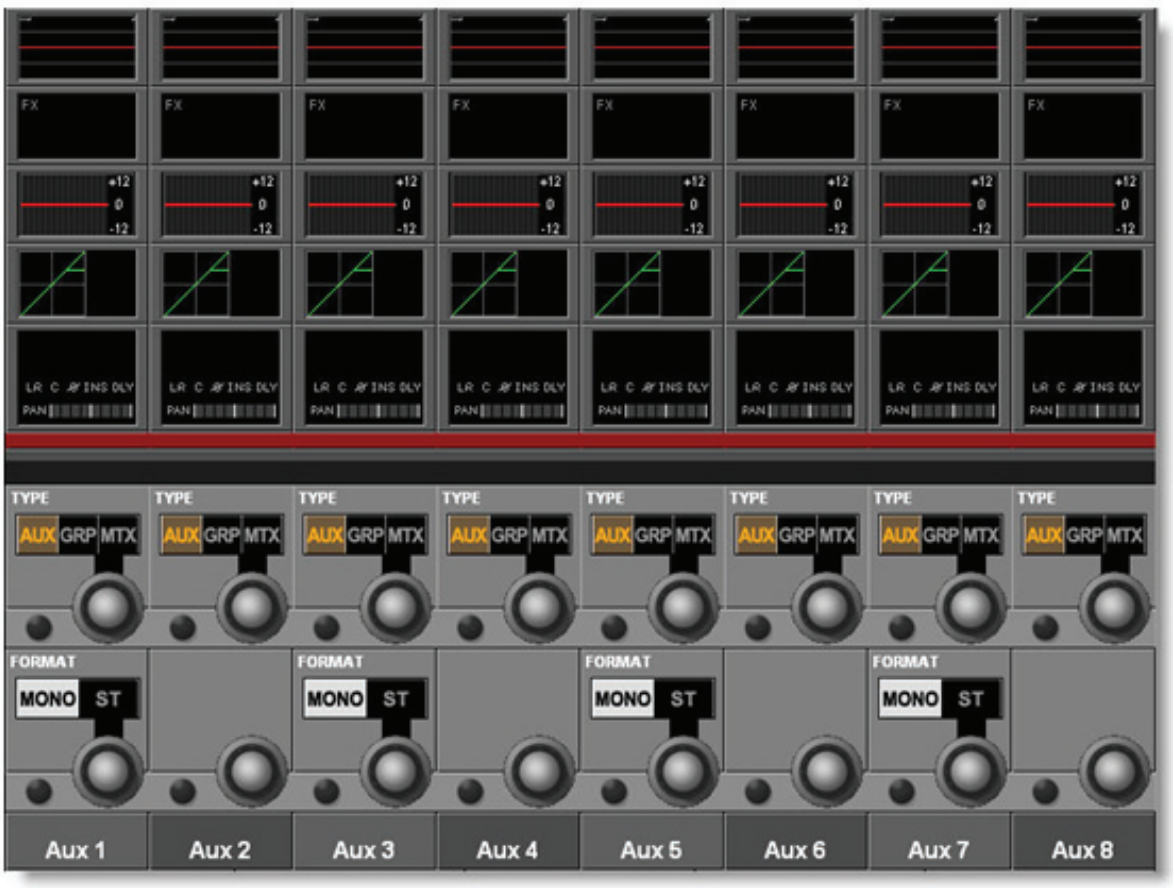
Temporary Activation means temporarily assigning a group of Channels or Bus Masters to the far right-hand fader bay of a Vi2, 4, or 6 console.

The main point of this feature is that it gives a faster alternative to using the ALL BUSSES fader page, which switches ALL the Input Faders to Buss master mode



To use this feature, touch the meter overview screen in the block of meters corresponding to the Output busses that you want to access. The relevant section of the ALL BUSSES Fader page will then appear on the far right-hand bay on the surface. The left-hand side of the console will remain in Input control mode.

To switch Temporary Activation off, touch the output meter screen again, or press any Fader Page button to switch to another Fader page.



Mute All Outputs

The Mute All Outputs function allows the whole console to be temporarily muted with one button press. This can be convenient when you need to leave the console unattended, or can be used to prevent unexpected audio output from the console when loading unfamiliar Show files.

To use the Mute All Outputs function, **press and hold** the MUTE ALL O/P button, located adjacent to the main Power button on the console front panel.

The button flashes with red illumination to draw attention to the mute condition.

The press and hold function is intended to prevent accidental operation!

To **unmute** the console, press the MUTE ALL O/P button again briefly (no press and hold necessary). Whilst the console is muted with Mute All Outputs, the input and bus output mutes will show red illumination. The Master LRC mutes will switch off (no illumination) but do not have the red illumination capability. The Monitor Outputs are not affected by Mute All Outputs, this is so that talkback and/or Solo functionality can still be used (eg for Line checking purposes).

The Mute All Outputs button state is not stored in the Show file, which means that the console can be muted and then a different Show loaded without the mute function being cancelled. The console can then be unmuted when it has been established that the audio levels are stable and as expected. (This is not possible by using conventional Mute Groups or VCA Master mutes, unless the Show was previously saved with these muted).

Note that it is possible to use the **Mute Safe** function (accessed from Monitor Setup page, then Setup sub-page) to prevent certain inputs or outputs from being muted when you activate Mute All Outputs (eg to keep a DJ channel running). This function does not exist on the LRC Master outputs however (although you can send the LRC pre-ON to Matrix Outputs to get around this if you need to keep the masters running).

Note: Direct Output from input channels will not be muted by Mute All Outputs, unless they have been set to 'post-ON' in the direct out Point setting on the Input