

CHAPTER 8

GLOBAL SETTINGS

Global Edit Mode is where you will find several parameters which affect the entire instrument, such as overall master tuning, display contrast, controller settings, keyboard mode, edit mode and the 48 kHz input.

Editing Global Parameters

- ↻ Press the [GLOBAL] button.
The display will change to Global Edit Mode, page 1 . The total number of pages (seven) is indicated in the lower left corner of the display. The currently selected page number will be underlined.
- ⌋ There are four parameters available for editing in Global Edit Page 1:
 - Quad Knob [1] controls the display contrast.
 - Quad Knob [2] enables General MIDI Mode and recalls Mix 00 of Preset Bank 4.
 - Quad Knob [3] controls the transposition, or pitch, of the keyboard.
 - Quad Knob [4] controls the instrument's overall master tuning.
- ⌋ Use the PAGE [] and [Æ] buttons to scroll through the 7 pages of Global Mode.

The following sections describe in detail each of the parameters found in the seven Global Edit Mode pages.

LCD Contrast

In Page 1 of Global Edit Mode, Quad Knob [1] adjusts the LCD Display Contrast (00 to 121). Whenever the [GLOBAL] button is pressed, the display will always revert to Page 1 with the Display Contrast parameter selected. This is so that if the display contrast is set too high or too low and is unreadable, you can easily adjust it even if you can't see what you're doing.

General MIDI Mode

In Page 1 of Global Edit Mode, selecting Quad Button [2] and pressing VALUE [] enables General MIDI Mode. This will immediately take you out of Global Edit Mode and into Mix Mode, automatically selecting Mix 00 of Preset Bank 4. For more information about General MIDI, refer to the MIDI Supplement in Appendix B.

Enabling General MIDI Mode via MIDI

The S4 will respond to a universal MIDI Sysex message to turn General MIDI mode on or off. Some (but not all) General MIDI sequences will have a Sysex message at the beginning (bar 1) which tells the receiving device to go into its General MIDI mode. If this message is sent, no matter where you happen to be on the S4, General MIDI mode will be enabled, and Mix 00 of Preset Bank 4 will automatically be selected.

Master Pitch and Master Tuning

In Page 1 of Global Edit Mode, Quad Knob [3] adjusts the S4 Plus's overall pitch (-12 to +12/up or down an octave). Adjust this parameter when you wish to globally

transpose all sounds. Quad Knob [4] adjusts the S4 Plus's overall Master Tuning (-99 to +99/up or down 1/2 step). Adjust this parameter when tuning the S4 Plus to other instruments. These parameters have no effect on drum sounds, the Range settings, or MIDI Out.

Mix Group Channel

In Page 2 of Global Edit mode, Quad Knob [2] selects the Mix Group Channel (OFF, 1 – 16). This determines which MIDI channel will play all those channels in the selected Mix whose Group parameter is set to "On". When in Mix Mode, you have the option to receive on several MIDI channels at once, or to play several programs on the same channel.

1–16. When the Group Mix Channel parameter is set between 1 and 16, the number it is set to determines the single MIDI channel which, when MIDI information is received on it, will play the channels in the selected Mix which have their Group parameter turned on.

OFF. In this mode, the individual channels used by the selected Mix will only be triggered by MIDI information received on its designated MIDI channel (*Example:* the sound on channel 1 will only respond to information received on MIDI channel 1, the sound on channel 2 will only respond to information received on MIDI channel 2, etc.), regardless of whether each channel's Group parameter has been turned on or off. However, the MIDI In parameter for each channel must be turned on in order for that channel to respond to incoming MIDI information on its own channel.

To turn on the Group function for a channel in a Mix:

- ⌘ From Mix Play Mode, press [SELECT].
- ⌘ Press FUNCTION [Æ] until the Range function is underlined.
- ⌘ Press PAGE [Æ] until Page 2 is selected.
- ÷ Use the MIDI ["] and [Æ] buttons to select a channel in the Mix.
- f Turn Quad Knob [4] to turn on the Group parameter.

Controllers A – D Assignment

The S4 Plus allows you to assign up to four general purpose MIDI controllers. These MIDI controllers are assigned a letter, A–D. In Page 3 of Global Edit mode, you can choose which MIDI controllers (0 to 120) to assign as Controllers A, B, C and D. For a listing of all MIDI controllers and their designations, see page 125 in the MIDI Supplement towards the end of this manual.

Reset Controllers A – D

Found on Global Edit Page 4, the “A–D Reset” function (On/Off) determines whether the values for Controllers A–D will be reset to zero when a new Program or Mix is recalled. Use Quad Knob [2] to turn this on or off.

Example: If you adjusted Controller A (using Quad Knob [1]) to, say, a value of 25 and then you recalled a different Program, the value of Controller A would remain at 25 if the “A–D Reset” function was turned off. Alternatively, the Controller A value would reset to 0 if this function was turned on.

Controller Pedal 1 and 2 Assignment

Like the MIDI Controllers A–D, the two footpedal controls (Pedal 1 and Pedal 2) are assigned to a MIDI controller. In Page 5 of Global Edit mode, you can assign which MIDI controllers (0 to 120) determine what Pedal 1 and Pedal 2 will be received as. These controllers are effectively the same as Controllers A–D, except they have no local control. Quad Knob [1] selects the controller for Pedal 1, while Quad Knob [3] selects the controller for Pedal 2. The default settings are: Pedal 1 = 7; Pedal 2 = 4.

MIDI Program Select

In Page 6 of Global Edit mode, Quad Knob [1] determines the MIDI Program Select mode (Off, On, Mix Select Channel 1 –16). When this is set to “Off”, the S4 Plus will not respond to incoming MIDI Program Change messages, nor will it transmit Program Changes.

When set to “On”, the S4 Plus will respond to incoming Program Change messages. Likewise, when a Program or Mix is recalled from the front panel, its respective program change message will be sent out. However, the S4 Plus will respond differently to incoming Program Change messages depending on whether Program Mode or Mix Mode is selected.

In Program Mode, the MIDI [] and [Æ] buttons determine on which MIDI channel the S4 Plus will receive MIDI Program Change messages (as well as other messages, like notes, controllers, etc.). The Program recalled will be the same number as the MIDI Program Change message that is received, from whichever bank (Preset or User) is currently selected. When a Program is recalled from the front panel, the S4 Plus will transmit the equivalent Program Change message on this same MIDI channel.

In Mix Mode, when MIDI Program select is on, Program Changes received on any of the 16 MIDI channels will be received by the same numbered MIDI channels in the current Mix. The Mix itself will not respond to Program Changes.

When set to “Mix Select Channel 1 – 16”, the S4 Plus will change Mixes in response to Program Change messages received on the same MIDI channel as selected by this parameter, from whichever bank (Preset or User) is currently selected. Program Change messages received on any other channel (other than the one selected by this parameter) will change the individual Programs in the Mix on the same channels the messages are received on.

Note: When General MIDI Mode is enabled (see page 111), Channel 10 of the selected Mix will be used exclusively for drums. If a program change is received on Channel 10, a new drum kit will be recalled. These drum kits are used exclusively in General MIDI mode, and adhere to the General MIDI specification.

Receiving and Transmitting Bank Change Message

The S4 Plus will respond to MIDI Bank Select messages. Bank Select messages are transmitted via MIDI Controller 0. The value of Controller 0 determines which bank (User, Preset 1–4, Card 1–8) is to be recalled. *Example:* If a Bank Select (controller 0) message of 0 is received, it will cause the User Bank to be recalled. If a Bank Select (message of 1 is received, Preset Bank 1 will be recalled. Additionally, if a Sound Card is inserted, the Card Banks can be selected using Controller 0 values between 5 and 13. Values higher than 13 are “wrapped around” and will recall the same Banks. *Example:* A Controller 0 message with a value of 39 will recall the User Bank.

Note: Bank change messages will be ignored if General MIDI Mode is enabled, so that only Programs within the General MIDI Bank (Preset 4) can be recalled via MIDI Program changes.

If the MIDI Program Select parameter is turned “On” and a new Bank is selected using the BANK [] and [Æ] buttons, a Bank Change message (followed by the appropriate Program Change message) will be transmitted out the MIDI Out connector.

If, additionally, a new Bank is selected in Mix Play Mode and any Channel's MIDI Out parameter (Mix Edit Mode, Range Function, Page 2, Quad Knob [3]) is turned "On", a Bank Select message (followed by the appropriate Program Change) will be transmitted out the MIDI Out connector for each of those MIDI Channels.

Edit Mode

The Quad Knobs have two editing modes: Immediate and Pass-thru. When using the Quad Knobs to adjust parameter values, you may prefer one mode over the other.

In Page 6 of Global Edit mode, Quad Knob [3] determines the Edit Mode of the four Quad Knobs. When set to Immediate, parameter values jump immediately to the Quad Knob's exact position the moment it is moved. When set to Pass-thru, the Quad Knob must be turned beyond the parameter's current setting before it becomes "live" and begins adjusting the parameter's value.

48 KHz Clock Input

In Page 7 of Global Edit mode, Quad Knob [1] turns the 48 kHz Clock Input on and off. When turned off, the S4 Plus uses its own internal sample clock as a reference for playing back the sampled sounds that make up a Program or Mix. However, if you are recording the S4 Plus to ADAT using the Digital Out fiber optic cable and also have a BRC Master Remote Controller, the S4 Plus must receive a 48 kHz clock signal from the BRC in order to maintain perfect sync with the ADAT system. This requires that you connect a BNC-to-BNC cable between the BRC's 48 kHz Clock Out to the S4 Plus's 48 kHz Clock In. When you are ready to record onto ADAT from the S4 Plus, be sure to turn on the 48 kHz Clock Input function. For more on connecting the BNC-to-BNC cable, see page 25.

