

Transport Page Touch Functions

Change the BPM here by touching to select and inc/dec with the encoder

Selecting here brings up the menu

Touching these areas jumps to one of the 4 rows for editing of pitch, gate, note etc. for each of the sequences in the song chain. (unlike the solo editing below)

Switch to enable/disable individual ROWs

Tap to change song using Encoder

Tap in this area to re-name the song

Tapping in this area toggles the RANDOM function for each of the rows independently. In INT clock mode the SYNC jack can also be used to globally switch on/off the Random function (if on pulse switches off, If off it switches it on).

Tapping in the last box of each row allows the user to disable the RANDOM SYNC jack feature (See above) for the individual rows.

Touching this row "solos" each of the individual sequences in the song and allows them to be edited.

Song Arrangement Page

Tap in these areas to select the sequences from 0-99 to be chained into a song. Use the encoder to change the values.

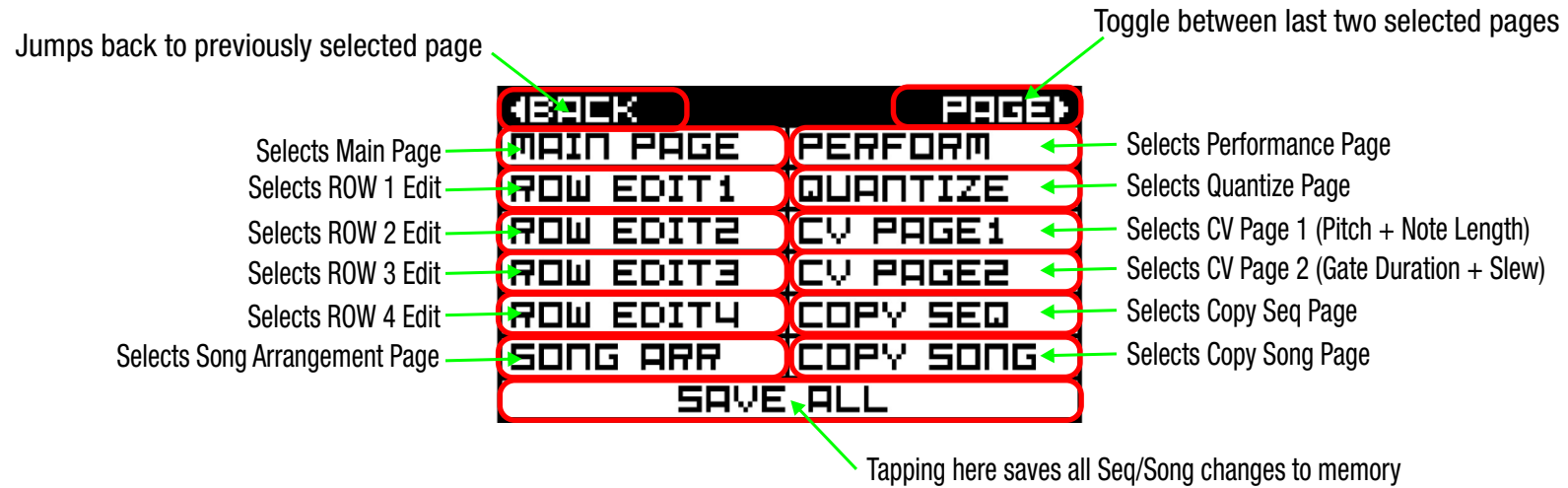
Selecting here brings up the menu

Selecting these boxes in each of the chain slots allows the number of repeats to be set between 0-31. Tap it then change the value with the Encoder. If set to 0 the sequence will not play and the song will cycle back to the beginning when it reaches the slot.

Touching the Xs in each of the chain slots "solos" each of the individual sequences in the song and allows them to be edited. Same as when tapping on the Sequence bar on the Main Page

Main Menu

Main menu for navigating to the pages of the sequencer.
Tap the screen lightly to select areas. The screen will respond to the selection when the stylus, finger etc is lifted from the screen.



Keyboard Page

Keyboard utility page for naming songs and user defined scales

Name text field. Tap in this area
after editing text to return to previous page

Backspace removes characters from the right



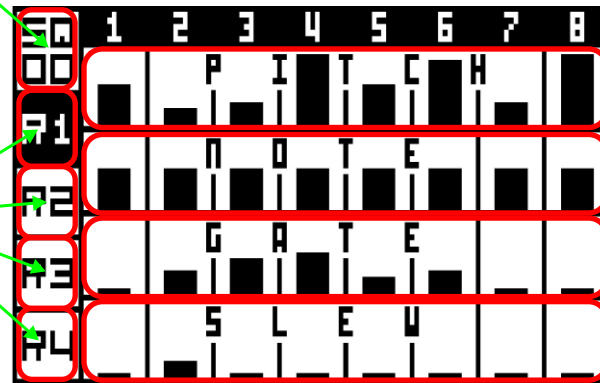
Clears the Name text field

Keys for entering characters into text field.
When the page launches the position of the cursor
is to the right of the last character in the field.
Characters can be added or backspace can be
used to clear characters. To clear all text select CLR.

Row Viewer Page

Selecting here calls up the main menu
and also indicates which sequence is active

Selecting these buttons
switches between
the ROWs for editing



Select this area to edit Pitch Sliders

Select this area to edit Note Length

Select this area to edit Gate Duration

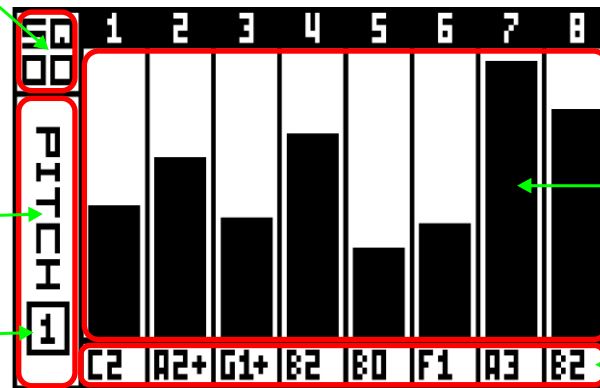
Select this area to edit Slew Amount

Slider Editors

Selecting here calls up the main menu
and also indicates which sequence is active

Selecting in this area returns to
the Row Viewer page (see above)

Indicates active Row

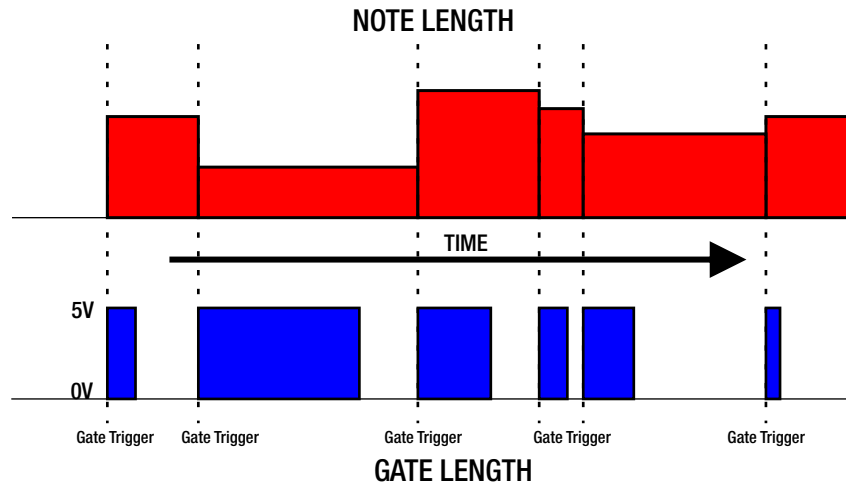


Draw slider values in this area of the screen.
Also tapping on a slider will put it into focus and
then the Encoder can be used to enter values.
This is especially useful with Quantization "OFF"
to set micro values as sliders have only 48 steps of resolution.

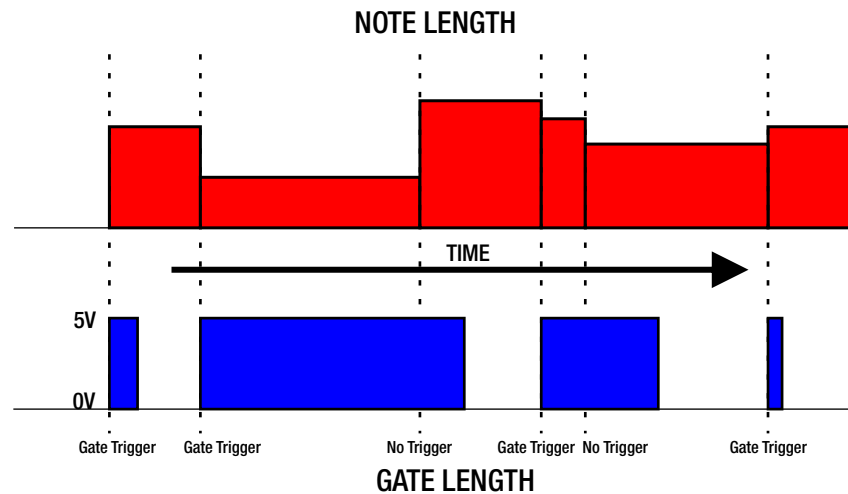
Indicates the value for
each slider (notes for pitch)

Note Duration vs Gate Duration

Note duration is the length of each step
Gate duration is the length of time the Gate is high for the step



In the example above the blue represents the gate length and you can see there is a new gate with each new note length. The gate is usually shorter than the note length but can be the same or longer. The spaces between the gates represent 0V gate and would result in short silences if connected to an envelope and VCA. In the External clock mode the shortest note duration and gate duration is 1 clock division so there will only be a very short "off" between steps. Your envelope generator will have to be used to shape note length in this case.



In this example the gate is longer than the note duration for some steps so there is no new trigger if it crosses over the boundary of the next note (see music notation below)



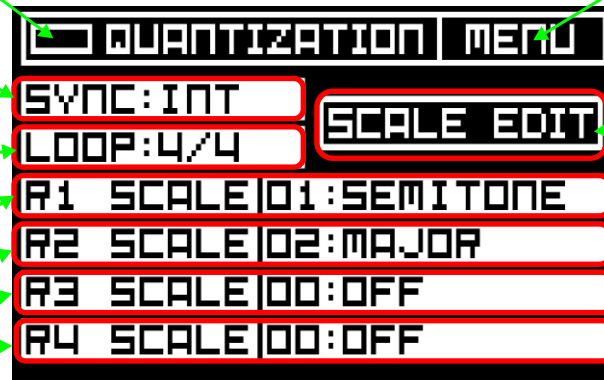
Quantization Page

Selecting here to call up the Midi Clock latency adjustment page

Select to change the clock mode. The choices are Internal, Midi(24ppq) and External. The Midi and External use the SYNC jack to receive clocks.

Set the BAR SYNC Loop point in this box. This determines the length of each sequence loop point.

Select the Quantization scale for each of the rows R1-R4



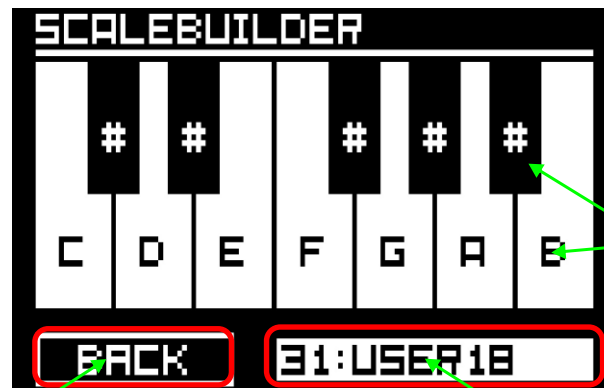
The Quantization Menu screen features a title bar with a menu icon and the text "QUANTIZATION MENU". Below the title bar are several controls: a "SYNC:INT" field, a "LOOP:4/4" field, a "SCALE EDIT" button, and four rows of scale selection labeled R1 through R4. Each row contains a "SCALE" label and a selection field. The current selections are: R1: SEMITONE, R2: MAJOR, R3: OFF, and R4: OFF.

Row	Scale
R1	SEMITONE
R2	MAJOR
R3	OFF
R4	OFF

Selecting here brings up the menu

Tapping here brings up the Scale Builder (see below) which allows the user to create there own scales (User Scales)

Scale Builder



The Scale Builder screen features a title bar with the text "SCALEBUILDER". Below the title bar is a piano keyboard layout with seven keys labeled C, D, E, F, G, A, and B. Each key has a sharp symbol (#) above it. Below the keyboard are two buttons: "BACK" and "31:USER18".

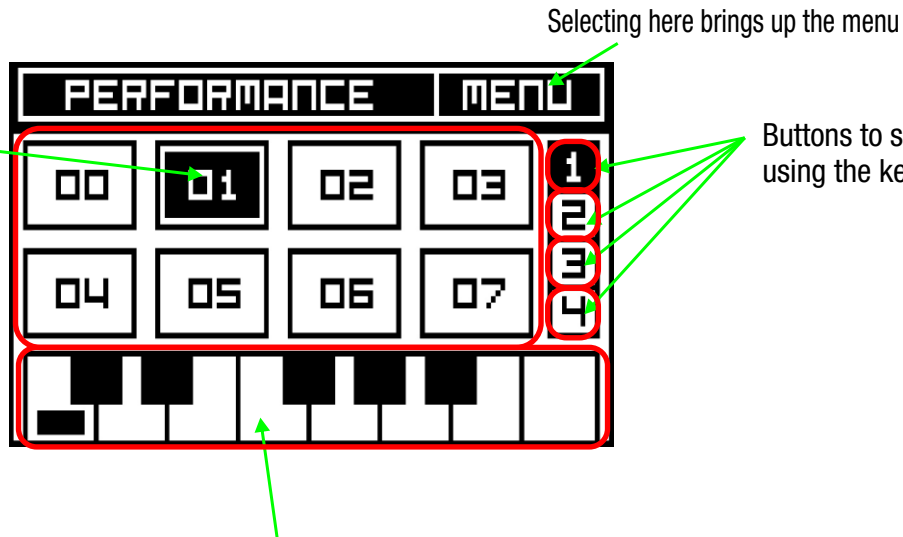
Tapping on the keys enables or disables the notes in the scale. If only one note is active the scale will be octaves on that pitch for example. For semitone scale all notes will be active

Return to the quantizer page with this button

Touch here to re-name your scales
If the scale is a pre-set in memory (major,minor etc.) you can't edit it or re-name it.

Performance Page

In Performance mode (active when selecting this page) tapping on any of the virtual keypad squares activates the sequence number on the key. Here it is seq 01 in the image. Tapping on other keys will play each of the sequences defined on the SONG ARR. page. When the key is active it is also possible to change the sequence number with the encoder which will also change it in the song.



Selecting here brings up the menu

Buttons to switch on/off the row for transpose using the keyboard at the bottom of the screen

Touch the keyboard to transpose the sequence. The Quantization scale will override any key changes that might occur. In other words shifting the pitch does not change the key.

Copy Sequence Page

Tap to set the sequence to copy with encoder 0-99

Tap to set the row to copy. Choices are 1-4 and ALL(A)

Selecting here brings up the menu

Set the transpose offset for each copy +/-12 semitones

Tap to set the copy destination seq with encoder 0-99

Tap to set the row destination with encoder 1-4

Tap to set the number of copies with encoder (up to 99)

Touch to create the copy

Here's an experiment to help you to familiarize yourself with the power of the copy and transpose functions.

1/Pick an unused sequence, 10 for example and put it in the first slot with no chained seq after it. Loop it and make up a pattern that you like using row 1 sliders.

2/Setup the song arrangement page so seq 10,11,12,13 are in the first 4 slots and set each to 1 repeat.

3/Jump back to Copy seq page.

4/ Set SEQ FROM to 10, the pattern you did, Set ROW FROM to A for All or 1 as the pattern is in the first row.

SEQ TO should be 11 because we're copying 10 to 11, ROW TO should be 1 because we are copying ROW 1 to ROW 1

If we were copying ALL rows the ROW TO is ignored because we are copying ALL.

Set number of copies to 3, set transpose to 0.

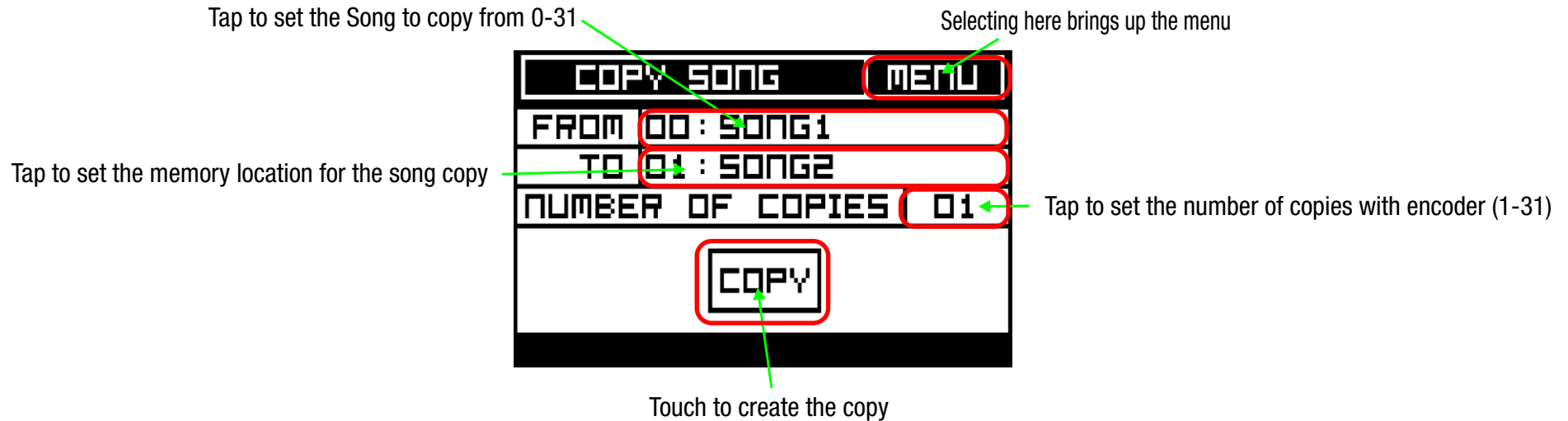
5/Tap on copy to create. Now play the song and you will notice that even though we are using 4 different sequence patterns they all sound the same.

6/Leave it playing and now change the transpose to +3 for example and hit copy again.

You will immediately hear that the patterns have been transposed. Be sure to have scale Quantization set to scale other than Octaves or you won't hear the transpositions.

You can continue to experiment with different amounts of transpose by changing the transpose entry value and hitting the copy button. Transpose can be either positive or negative amounts.

Copy Song Page



When copying a song to a new location the all the song parameters (CLOCK TYPE, Scale assignments, Bar Loop, BPM and sequence/song arrangement are copied) The sequences are not copied as all songs can share the same 100 sequences but the chaining or arrangement of the sequences is copied.

CV Page 1

The CV pages allow the user to assign the front panel CV Input Jack to modulate the Pitch, Note, Gate and Slew parameters of each sequence row. The CV section is divided into two separate pages. Page 1 is Pitch and Note and Note Duration and Page 2 is Gate Duration and Slew. Despite having only one CV jack the ability to route CV modulation to so many destinations can add a surprising amount of variation to a static sequence.

This section is for routing modulation to the Sequencer Pitch values.

Selecting in these boxes sets the amount of modulation to be routed to each of the sequence ROWS, in this case for pitch. The range is +/-63. A negative setting will subtract while a positive will add.

PITCH			NOTE		
	AMNT	OFFST		AMNT	OFFST
R1	42	-18	R1	22	-10
R2	-	-	R2	-	-
R3	-	-	R3	-	-
R4	-	-	R4	-	-

CLEAR

Selecting here brings up the menu

This section is for routing modulation to the Note duration

Selecting in these boxes sets the offset for the modulation +/-63 for each ROW. The CV jack works with only positive voltage from 0-5V. In order that the CV be allowed add and subtract an offset can be set to simulate a +/- input voltage.

Tapping here clears all the modulation settings and sets to default off

CV Page 2

This section is for routing modulation to the Gate Duration.

Selecting in these boxes sets the amount of modulation to be routed to each of the sequence ROWS, in this case for pitch. The range is +/-63. A negative setting will subtract while a positive will add.

GATE			SLEW		
	AMNT	OFFST		AMNT	OFFST
R1	38	-10	R1	12	-15
R2	-	-	R2	-	-
R3	-	-	R3	-	-
R4	-	-	R4	-	-

CLEAR

Selecting here brings up the menu

This section is for modulating the slew amount.

Selecting in these boxes sets the offset for the modulation +/-63 for each ROW. The CV jack works with only positive voltage from 0-5V. In order that the CV be allowed add and subtract an offset can be set to simulate a +/- input voltage.

Tapping here clears all the modulation settings and sets to default off