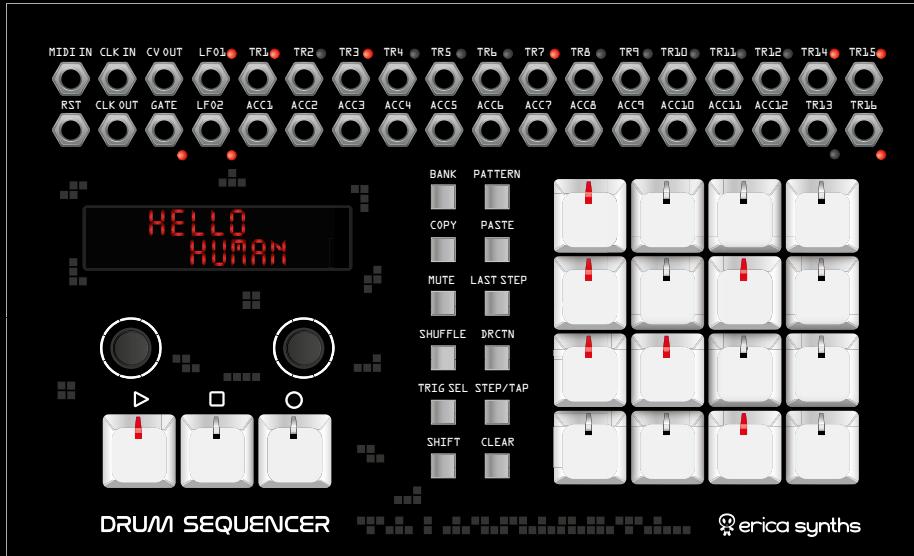


DRUM SEQUENCER



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FOR PURCHASING
ERICA SYNTHS
DRUM SEQUENCER!

We believe, this is the end of the history performance sequencer for modular drums and basslines. It's easy to use, classical, XOX style live performance oriented module that provides the ultimate control over your modular system.

Enjoy, and let us know, what you think!

This is manual for the Drum Sequencer Firmware 1.047.
For the latest firmware and manual please check:
www.ericasynths.lv

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erica synths DRUM SEQUENCER MODES & MENUS

1. All Underlined text in this document is hypertinked to relevant destinations

2. Menus, modes, or parameters are often herein worded in multiple ways or with extra words, so that you can easily search for what you want to do in your own words. Give it a try by pressing **Ctrl+F** (or **Cmd+F** on Mac) and describing what you would like to do on Drum Sequencer

3. Updated to firmware version 1.056

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KEY TERMS

Bank

8 Available. A group of 16 Patterns, 8 in total on the unit, denoted by a letter between A-H

Pattern

128 Available [16 Patterns per Bank x 8 Banks]

Any group of 16 Tracks + 1 CV/Gate Track + 2 LFO's, denoted by a letter and a number (indicates Bank and place within bank, i.e. "A1")

Track

2,176 Available [17 Tracks per Pattern (16 Trigger/Accent Tracks + 1 CV/Gate Track) x 16 Patterns per Bank x 8 Banks]

A set of parameters related to voltages that are outputted at each jack marked TR, AC, CV OUT, or GATE. Other than the CV/Gate Track, which comes last in the order, each Track is numbered according to the number on its corresponding TR/AC Output jack

Trigger Track

2,048 Available [16 Tracks per Pattern x 16 Patterns x 8 Banks]

For triggered events such as Drum & Percussion sequencing

Outputs short (2-10ms) trigger voltages. Any of the numbered tracks in the TRIG Parameter within Pattern Edit Mode are Trigger Tracks corresponding to the "TR" jack outputs, the first 12 of which can also output Accent voltages (either 10V or 5V) via the corresponding numbered "AC" jack outputs

CV/Gate Track

128 Available [1 CV/Gate Track per Pattern x 16 Patterns x 8 Banks]

For triggered and continuous events such as Lead & Bassline sequencing

Outputs both short (2-10ms) trigger voltages AND continuous control voltage (CV) via the GATE and CV jack outputs

Step

Up to 139,264 Available [Up to 64 Steps per Track x 17 Tracks per Pattern x 16 Patterns per Bank x 8 Banks]

A set of parameters related to trigger, gate, or control voltage (CV) that is output over a short duration (step durations operate as a fraction of the duration for a single Clock trigger pulse)

Pattern Play Mode

The area for changing Patterns and Banks in Drum Sequencer, including how Patterns play back

Pattern Edit Mode

The area for adding, removing, and adjusting Tracks and Steps within Patterns

Step Events Mode

The area for modifying parameters related to a single Step

CV/Gate Track Perform Mode

An area in the CV/Gate Track for real-time performance of melodies and basslines using the STEP KEYS

Note Edit Mode

Exclusive to the CV/Gate Track, an area for modifying parameters related to CV/Gate Track Steps, particularly in how voltage will be quantized (converted into musical pitch)

FRONT PANEL



1 - Inputs (3)

2 - Outputs (32)

3 - OLED Display (1)

4 - Function Keys (12)

5 - Step Keys & Step Key LEDs (16)

6 - Data Entry Encoders (2)

7 - Transport Keys (3)

8 - 3.5mm Jack LEDs

PATTERN PLAY MODE

OVERVIEW

Description

Mode for Playing, Changing, and/or Editing Patterns and Banks
(Mode Default: Pattern = A1, Tempo = Default BPM)

LEDs

PATTERN LED is Solid ON

Access/Exit Method

To Access Pattern Play Mode:

Press PATTERN Button once from Pattern Edit Mode, or twice from any other Mode

To Exit Pattern Play Mode:

Press PATTERN Button to return to Pattern Edit Mode

MAIN PARAMETERS

Step Key Function

Use STEP KEYS in this Mode to Change or Link Patterns while stopped or while playing

Transport Controls

► = Play

When sequence is stopped PLAY LED Flashes ON, when sequence is playing PLAY LED is Solid ON

■ = Stop, or double press to Play

When sequence is stopped STOP LED is Solid ON, when sequence is playing STOP LED is Solid OFF

● = Global Save

SAVE LED Flashes when there is new and unsaved information in the buffer, SAVE LED is OFF when there is no new information in the buffer

Bank & Pattern Number

Hold BANK + STEP KEYS 1-8 to select between 8 Banks

Press the corresponding STEP KEY to select between 16 Patterns in the current Bank
(A-H; Default: A)

Global Tempo

Turn ENC2 (Data Entry Encoder 2) to change the Global Tempo

NOTE: Tempo will NOT be recalled after powering off, to change Global Default Tempo, see BPM in Settings Page 1
(30-250; Default: 120bpm at Factory Default, or configurable in Settings)

ADDITIONAL PARAMETERS

Save

Press ● (RECORD) button to Save at any time

Undo ("Pattern Reload")

To Undo or Recall from the Last Saved State of a Pattern:
Hold ENC1 (Encoder 1) + Press ENC2 (Encoder 2)

Copy Pattern & Paste Pattern

From Pattern Play Mode:

1. Press ● (RECORD) to Save before Copying
2. Press ■ (STOP) to Turn Sequence OFF if playing
3. To Copy a Pattern:
Press STEP KEY for the Pattern that will be copied
Press COPY Button
4. To Paste a Pattern:
Press STEP KEY for the destination Pattern slot
Press PASTE Button
5. If satisfied, Press ● (RECORD) Button to Save after Pasting **must save after copy/paste** [just get in the habit of pressing ● (RECORD) a lot]

Copy Current Pattern While Playing & Paste Current Pattern While Playing

From Pattern Play Mode, While Sequence is ON:

1. Press ● (RECORD) to Save before Copying
2. To Copy & Paste Current Pattern While Playing:

Hold COPY + Press STEP KEY for Pattern to Copy (a "COPIED!" splash screen will appear)

Hold PASTE + Press STEP KEY for Destination Pattern Slot (as of firmware v. 1.056 a "PASTE" splash screen will appear)

3. If satisfied, Press ● (RECORD) Button to Save after Copying must save after copy/paste [just get in the habit of pressing ● (RECORD) a lot]

NOTE: Must stop the sequence in order to Paste Patterns into a different Bank. The above functionality only works within a single Bank.

Clear Pattern

Hold STEP KEY + Press CLEAR Button from Pattern Play Mode

Pattern Link

To chain a group of Patterns within the same Bank (played left-to-right, top-to-bottom, in order). Hold STEP KEY for starting Pattern + Press STEP KEY for the last Pattern in the chain

Move All Pattern Steps

Move all Steps within all Tracks within a single Pattern

Move Steps Left:

Hold SHIFT + Press COPY (multiple presses of COPY while holding SHIFT to move >1 sequence slot to the left)

Move Steps Right:

Hold SHIFT + Press PASTE (multiple presses of PASTE while holding SHIFT to move >1 sequence slot to the right)

If satisfied, Press ● (RECORD) Button to Save

PATTERN LAST STEP

Overview: Description

In Pattern Play Mode, sets the Total Number of Steps in a Pattern, as a function of the Step Number that is chosen to be Last. Total Number of Bars in a Pattern
[Submenu Default: Bar = 1, Step = 16]

Overview: LEDs

LAST STEP Button LED is Solid ON when LAST STEP button is pressed and held in Pattern Play Mode

Overview: Access/Exit Method

To Access Pattern Last Step:

Hold LAST STEP Button in Pattern Play Mode

To Exit Pattern Last Step:

Release LAST STEP Button in Pattern Play Mode

Step Key Function

Use STEP KEYS in this Submenu to Select Last Step value for the chosen on-screen Bar Number

Bar

Sets the Number of Bars for the Pattern by using ENC1 (Encoder 1) [1-4; Default: 1]

Step

Sets the Last Step value/Number of Steps for the Pattern either by:

ENC2 (Encoder 2) turn

STEP KEY press (dependent on current Bar length value)

[1-64; Default: 16]

PATTERN SHUFFLE (SWING)

Overview: Description

In Pattern Play Mode, sets the Shuffle (Swing) Amount for all Tracks in the currently selected Pattern

[Submenu Default: No Shuffle, a.k.a. 50% Swing]

Overview: LEDs

SHUFFLE LED is Solid ON for as long as the SHUFFLE Button is held in Pattern Play Mode

Overview: Access/Exit Method

To Access Pattern Shuffle:

Hold SHUFFLE Button in Pattern Play Mode

To Exit Pattern Shuffle:

Release SHUFFLE Button in Pattern Play Mode

Step Key Function

Use STEP KEYS in this Submenu to Change Current Pattern

Pattern Shuffle (Swing) Value

Represented in "ticks" along a horizontal axis, where

1st "tick" (far left) = No Shuffle

Last "tick" (far right) = Maximum Shuffle

Use ENC2 (Encoder 2) to change Shuffle Value

[1-7; Default: 1]

PATTERN DIRECTION

Overview: Description

Sets the direction of step movement after starting a Pattern
[Submenu Default: FORWARD]

Overview: LEDs

DRCTN LED is Solid ON for as long as the DRCTN Button is held in Pattern Play Mode

Overview: Access/Exit Method

To Access Pattern Direction:

Hold DRCTN Button in Pattern Play Mode

To Exit Pattern Direction:

Release DRCTN Button in Pattern Play Mode

Step Key Function

Use STEP KEYS in this Submenu to Change Current Pattern

Pattern Direction Value & Available Pattern Directions

Use ENC2 (Encoder 2) to change Pattern Direction

FORWARD: Steps progress in numerical order, and visually from Left-to-Right, Top-to-Bottom

BACKWARD: Steps progress in backward numerical order, and visually from Right-to-Left, Bottom-to-Top

PING-PONG: Steps progress in numerical order, and visually from Left-to-Right, Top-to-Bottom until the end of the sequence, where steps then progress in backward numerical order, and visually from Right-to-Left, Bottom-to-Top until Step 1

RANDOM: Steps progress in an aperiodic, unpredictable order, and visually from any STEP KEY LED to any other

[FORWARD, BACKWARD, PING-PONG, RANDOM; Default: FORWARD]

PATTERN EDIT MODE

OVERVIEW

Description

The Default Mode loaded at Power ON, Pattern Edit Mode relates to parameters for a currently selected Track within a Pattern/Bank

LEDs

PATTERN LED Flashes ON

Access/Exit Method

To Access Pattern Edit Mode:

Press PATTERN Button once from any other mode, otherwise it is the Default Mode loaded at Power ON

To Exit Pattern Edit Mode:

Press PATTERN Button once to enter Pattern Play Mode, or enter another Mode or Submenu

MAIN PARAMETERS

Step Key Function

Use STEP KEYS in this Mode to Enter & Delete a Trigger(s) for currently selected Track, or add an Accent(s) (if enabled) to currently selected Trigger within a Track

Transport Controls

► = Play

When sequence is stopped PLAY LED Flashes ON, when sequence is playing PLAY LED is Solid ON

■ = Stop, or double press to Play

When sequence is stopped STOP LED is Solid ON, when sequence is playing STOP LED is Solid OFF

● = Global Save

SAVE LED Flashes when there is new and unsaved information in the buffer, SAVE LED is OFF when there is no new information in the buffer

BAR

Selects from up to 4 sets of 16 trigger/accents slots per Track to be displayed by the STEP KEYS, where each Bar = 16 possible trigger/accents slots
Displayed as [# #], where

left value shows Bar currently playing (or that will play when sequence is activated) and

right value shows Bar currently in view on the STEP KEY LEDs

Can enable Bar Auto Follow from this parameter

[1-4; Default: 1]

LEN

Indicates the Length of a given Track represented by a value from 1-64, where each value represents one Trigger/Accent slot & one Step

Bar parameter values will automatically adjust to the chosen LEN value, where each group of 16 values represents another Bar

[1-64; Default: 16]

SCL

Indicates the amount of time that each sequence step (whether Trigger, Accent, or Rest) will occupy, represented by a fraction of one clock pulse [1/4, 1/8, 1/16, 1/32; Default: 1/16]

TRIG

Indicates the currently displayed Track (Tracks 1-16 or CV Track), represented by a number from 1-16 (corresponding to each of the 16 Trigger/Accent Tracks); OR, CV (corresponding to the CV/Gate Track)

[1-16, CV; Default: 1]

ADDITIONAL PARAMETERS

Change Track // Track Select

To quickly change track / select new track / choose new track

For Trigger Tracks (TR 1-16), from Pattern Edit Mode or Step Events Mode:

Hold TRIG SEL + Press Corresponding STEP KEY for Tracks 1-16; OR,

Use ENC1 (Encoder 1) to scroll to TRIG parameter + Use ENC2 (Encoder 2)

to scroll to desired Trigger (TR) Track

NOTE: Can use either of the above methods to access the Reset Out, if configured in place of Trigger Track 16 (TR16) in Settings

For CV/Gate Track (CV), from Pattern Edit Mode or Step Events Mode:

Hold TRIG SEL + Press ENC2 (Encoder 2)

Use ENC1 (Encoder 1) to scroll to TRIG parameter + Use ENC2 (Encoder 2)

to scroll to "CV"

Copy Track & Paste Track

From Pattern Edit Mode:

1. Press ● (RECORD) Button to Save before Copying

2. To Copy a Track:

Press COPY Button in Pattern Edit Mode

3. To Paste:

Select destination Track via TRIG SEL (see Track Select) Button

Press PASTE Button

4. If satisfied, Press ● (RECORD) Button to Save after Pasting **must save after copy/paste** (just get in the habit of pressing ● (RECORD) a lot)

Copy Track into Different Pattern & Paste Track into Different Pattern

From Pattern Edit Mode:

1. Press ● (RECORD) Button to Save before Copying

2. To Copy a Track:

Press COPY Button in Pattern Edit Mode

3. To Paste into a Different Pattern:

Press PATTERN Button to enter Pattern Play Mode, select destination Pattern Hold TRIG SEL, or scroll in TRIG parameter to select destination Track
Press PASTE Button

4. If satisfied, Press ● (RECORD) Button to Save after Pasting **must save after copy/paste** (just get in the habit of pressing ● (RECORD) a lot)

Clear Track

To Clear a Track from Pattern Edit Mode:

Hold SHIFT + Press CLEAR Buttons to clear the whole track at once; OR, Hold CLEAR Button while the sequence is running to clear the track at the rate that the sequence progresses

i.e. Can remove sections trigger steps within a given Track, without having to clear the entire Track

Step Entry [Add Step] & Step Delete [Remove Step]

To Enter a Step or Delete a Step from Pattern Edit Mode:

To Enter a Step: Press any STEP KEY, STEP KEY LED will turn Solid ON

To Delete a Step: Press any STEP KEY with an active Trigger enabled, STEP KEY LED will turn OFF

Enable/Disable Accents

To Enable Accents or Disable Accents for a given Track, either:

Hold SHIFT + Press TRIG SEL from Pattern Edit Mode; OR,

Use ENC1 (Encoder 1) to scroll to TRIG parameter, then press ENC2 (Encoder 2)

TRIG Parameter will display a "+" after the Track number to indicate that Accents are enabled (inversely, if there is no "+" after the track number, Accents are not enabled)

NOTE: Accents are only available for Tracks 1-12 (Tracks 13-15 are Trigger only, and Track 16 is either Trigger only or CV/Gate)

Accent Entry & Accent Delete

Once Accents are enabled:

To Enter Triggers without Accents: Single Tap STEP KEY

To Enter Triggers with Accents: Double Tap STEP KEY

LED for Triggers without Accents: 50% Brightness

LED for Triggers with Accents: 100% Brightness

To Remove an Accent (but retain the Trigger):

Double Tap STEP KEY for any step currently set to Accent

Remember to press ● (RECORD) Button **save your entries**, as switching Modes, Tracks, or Patterns will often erase changes made in other screens unless saved

NOTE: Accents are only available for Trigger Tracks 1-12

NOTE: Accent Outputs can be individually reduced from the default 10V to 5V by AC parameter in Settings

Copy Step & Paste Step [from Step Events Mode]

Copy & Paste individual steps from Step Events Mode

Step will be copied with all parameters intact, including:

Whether it is a Trigger without Accent or Trigger with Accent

Pattern Edit Mode parameter values

Step Event Mode parameter values

Note Edit Mode (CV/Gate Track only) parameter values

All other relevant parameters to Trigger or CV/Gate Track steps

To Copy a Step:

1. Hold SHIFT + Press STEP KEY to enter Step Events Mode for the Step

that will be copied

2. Press COPY Button

To Paste a Step:

1. Press STEP KEY for the destination Step Slot

2. Press PASTE Button

3. If satisfied, Press ● (RECORD) Button to Save

Copy Step & Paste Step into a Different Track [from Step Events Mode]

To Copy a Step:

1. Hold SHIFT + Press STEP KEY to enter Step Events Mode for the Step

that will be copied

2. Press COPY Button

To Paste a Step:

1. Navigate to destination Track (whether it be TR 1-16 or CV/Gate Track)

2. Hold SHIFT + Press STEP KEY to enter Step Events Mode for the

destination Step in the destination Track

3. Press PASTE Button

4. If satisfied, Press ● (RECORD) Button to Save

Clear Track Steps

To Clear Track Steps:

Hold SHIFT + Press CLEAR

Track will be reset to Default settings, except that Tracks Accent ON/OFF is retained:

Length (LEN): 16

Scaling (SCL): 1/16

All Triggers/Accents are removed

Step Events parameters reset to default

Save

Press ● (RECORD) button to Save at any time

Undo ("Pattern Reload")

To Undo or Recall to the Last Saved State of a Pattern:

Hold ENC1 (Encoder 1) + Press ENC2 (Encoder 2)

Move All Track Steps

To Move all Steps within a single Track:

Move Steps Left:

Hold SHIFT + Press COPY (multiple presses of COPY while holding SHIFT to move >1 sequence slot to the left)

Move Steps Right:

Hold SHIFT + Press PASTE (multiple presses of PASTE while holding SHIFT to move >1 sequence slot to the right)

If satisfied, Press ●(RECORD) Button to Save

Bar Auto Follow

Maintains the same value for the Bar in view and the Bar currently playing STEP KEY LEDs update in real time to show the Bar that is currently playing once the sequence is activated, LEDs "scroll" with the Track as it is playing Displayed as # → #, where Left value and Right value are always the same

Track Last Step

To quickly set the Last Step – and therefore to quickly set the length – of a Track in Pattern Edit Mode or Step Events Mode:

1. If Track Last Step / Track Length >16, use ENC2 (Encoder 2) in BAR parameter of Pattern Edit Mode to scroll to the appropriate Bar
Bar 2: Tracks 17-32 steps long
Bar 3: Tracks 33-48 steps long
Bar 4: Tracks 49-64 steps long

2. Hold LAST STEP + Press STEP KEY for desired last step in the Track (LEN value will change on OLED Screen in Pattern Edit mode)

3. If satisfied, Press ●(RECORD) Button to Save

Toggle Track 16 as Trigger or Toggle Track 16 as Reset Out

See Settings page 2 under RST

TRACK SHUFFLE (SWING)

Overview: Description

In Pattern Edit Mode, sets the Shuffle (Swing) Amount for the currently selected Track

(Submenu Default: No Shuffle, a.k.a. 50% Swing)

Overview: LEDs

SHUFFLE LED is Solid ON for as long as SHUFFLE Button is pressed in Pattern Edit Mode

Overview: Access/Exit Method

To Access Track Shuffle:

Hold SHUFFLE Button in Pattern Edit Mode

To Exit Track Shuffle:

Release SHUFFLE Button in Pattern Edit Mode

Step Key Function

Use STEP KEYS in this Submenu to Add or Remove Triggers/Accents

Track Shuffle (Swing) Value

Represented in "ticks" along a horizontal axis, where

1st "tick" (far left) = No Shuffle

Last "tick" (far right) = Maximum Shuffle

Use ENC2 (Encoder 2) to change Shuffle Value

[1-7; Default: 1]

TRACK DIRECTION

Overview: Description

Sets the direction of step movement within a Track

(Submenu Default: FORWARD)

Overview: LEDs

DRCTN LED will be Solid ON for as long as the DRCTN Button is held in Pattern Edit Mode

Overview: Access/Exit Method

To Access Track Direction:

Hold DRCTN Button in Pattern Edit Mode

To Exit Track Direction:

Release DRCTN Button in Pattern Edit Mode

Step Key Function

Use STEP KEYS in this Submenu to Add or Remove Triggers/Accents

Track Direction Value & Available Track Directions

Use ENC2 (Encoder 2) to change Track Direction

FORWARD: Steps progress in numerical order, and visually from Left-to-Right, Top-to-Bottom

BACKWARD: Steps progress in backward numerical order, and visually from Right-to-Left, Bottom-to-Top

PING-PONG: Steps progress in numerical order, and visually from left-to-right, top-to-bottom until the end of the sequence, where steps then progress in backward numerical order, and visually from Right-to-Left, Bottom-to-Top until Step 1

RANDOM: Steps progress in an aperiodic, unpredictable order, and visually from any STEP KEY LED to any other

(FORWARD, BACKWARD, PING-PONG, RANDOM; Default: FORWARD)

MUTE MODE

OVERVIEW

Description

Use this mode to mute & solo tracks on command, including conditionally via arming

LEDs

MUTE LED is Solid ON

Access/Exit Method

To Access Mute Mode:

Press MUTE Button

To Exit Mute Mode:

Press MUTE Button (you will return to the previous mode, or Pattern Edit mode by Default)

MAIN PARAMETERS

Step Key Function

Use STEP KEYS in this Mode to Mute, Unmute, Solo (w/ SHIFT), or Unsolo (w/ SHIFT)

Transport Controls

► = Play

When sequence is stopped PLAY LED Flashes ON, when sequence is playing PLAY LED is Solid ON

■ = Stop, or double press to Play

When sequence is stopped STOP LED is Solid ON, when sequence is playing STOP LED is Solid OFF

● = Global Save

SAVE LED Flashes when there is new and unsaved information in the buffer, SAVE LED is OFF when there is no new information in the buffer

LFO

Press ENC1 (Encoder 1) to Mute or Unmute LFO Outputs via ON/OFF values

(On, Off; Default: On)

CV/Gate

Press ENC2 (Encoder 2) to Mute or Unmute CV/Gate Outputs via ON/OFF values

(On, Off; Default: On)

ADDITIONAL PARAMETERS

Track Mute & Track Unmute

To Mute Trigger Tracks or Unmute Trigger Tracks:

Press STEP KEY for desired Trigger Track number

To Mute CV/Gate Track or Unmute CV/Gate Track:

Press ENC2 (Encoder 2)

Clear All Mutes

To Clear All Mutes / Remove All Mutes:

Hold SHIFT Button + Press MUTE Button

Mute Arming

Use this parameter to pre-select tracks that will Mute or Unmute at the user's discretion

To engage Mute Arming:

Hold MUTE Button + Press STEP KEYS to arm Trigger Tracks to Mute/Unmute and keep MUTE Button held, STEP KEY LEDs for armed Trigger Tracks will Flash ON/OFF

When ready, release MUTE Button to engage the armed Trigger Tracks

Trigger Track Solo & Trigger Track Un-Solo

To Solo a Trigger Track:

Hold SHIFT + Press STEP KEY to Solo any given Trigger Track (TR1-TR16), all STEP KEY LEDs except the one for the Solo Track will turn Solid ON

To Un-Solo a Trigger Track:

Hold SHIFT + Press STEP KEY for the Solo Track, all STEP KEY LEDs will turn OFF

Accent Out Mute Behaviour

Can configure Accent outputs to output voltage even when the corresponding Trigger Track (TR's 1-12) output is muted via MUT Parameter in Settings

Save

Press ●(RECORD) button to Save at any time

Undo ("Pattern Reload")

Undo or Recall from the Last Saved State of a Pattern:

Hold ENC1 (Encoder 1) + Press ENC2 (Encoder 2)

TAP (RECORD) MODE

OVERVIEW

Description

Aside from step programming via Pattern Edit Mode, another way to sequence tracks (or to simply audition a sound) is through Tap (Record) Mode. Record quantized trigger patterns in real time by performing them on the STEP KEYS

LEDs

STEP/TAP & PATTERN LEDs Flash ON/OFF when Tap (Record) Mode is engaged

Access/Exit Method

To Enter Tap (Record) Mode:

Press STEP/TAP Button once from any other mode

To Exit Tap (Record) Mode:

Press STEP/TAP Button again, LED will turn OFF

MAIN PARAMETERS

Step Key Function

Use STEP KEYS in this Submenu to Enter One Shot or Loop Recorded/Overdub Recorded Triggers to any of 16 Trigger Tracks

Transport Controls

► = Play

When sequence is stopped PLAY LED Flashes ON, when sequence is playing PLAY LED is Solid ON

■ = Stop, or double press to Play

When sequence is stopped STOP LED is Solid ON, when sequence is playing STOP LED is Solid OFF

● = Record

Enables looped recording of steps performed on the STEP KEYS in real time
Steps performed over an existing Trigger Track will overwrite (overdub) that Trigger Track

BAR

Selects from up to 4 sets of 16 trigger/accent slots per Track to be displayed by the STEP KEYS, where each Bar = 16 possible trigger/accent slots
Displayed as [# #], where left value shows Bar currently playing (or that will play when sequence is activated) and right value shows Bar currently in view on the STEP KEY LEDs

Can enable Bar Auto Follow from this parameter

[1-4; Default: 1]

LEN

Indicates the Length of a given Track represented by a value from 1-64, where each value represents one Trigger/Accent slot & one Step
Bar parameter values will automatically adjust to the chosen LEN value, where each group of 16 values represents another Bar
[1/64; Default: 16]

SCL

Indicates the amount of time that each sequence step (whether Trigger, Accent, or Rest) will occupy, represented by a fraction of one clock pulse
[1/4, 1/8, 1/8t, 1/16, 1/16t, 1/32; Default: 1/16]

TRIG

Indicates the currently displayed Track (Tracks 1-16 or CV Track), represented by a number from 1-16 (corresponding to each of the 16 Trigger/Accent Tracks); OR, CV [corresponding to the CV/Gate Track]
[1/16, CV; Default: 1]

FILL SUBMENU

Description

Fill Submenu is used to "fill" in the sequence by adding streams of repeated triggers, which stop and start by user control

LEDs

STEP/TAP & PATTERN LEDs Flash ON/OFF when Fill Submenu is engaged

Access/Exit Method

To Enter the Fill Submenu // To Enter a Fill:

Hold SHIFT + Press STEP/TAP Button from any other mode

To Exit the Fill Submenu

Press STEP/TAP Button again to return to Tap (Record) Mode, Press PATTERN Button to enter Pattern Edit Mode, or use appropriate combinations to enter other modes

Step Key Function

Use STEP KEYS in this Submenu to Enter a Fill into any of the Trigger tracks (TR1-TR16)

NOTE: Can Enter a Fill anywhere from 1 to all 16 Trigger Tracks simultaneously

Fill Value

Selects the rhythmic value/duration of each repeated fill trigger
[1/16, 1/24, 1/32, 1/48, 1/64, 1/96, 1/128; Default: 1/16]

STEP EVENTS MODE

OVERVIEW

Description

Step Events Mode is used to access step-specific parameters related to step timing, trigger probability, and ratcheting (here called retrigger / retriggering)

LEDs

STEP KEY LED for selected STEP KEY slot Flashes ON/OFF

Access/Exit Method

To Enter Step Events Mode:

Hold SHIFT + Press STEP KEY in Pattern Edit Mode (works with both Trigger and CV/Gate Tracks)

To Exit Step Events Mode:

Press PATTERN Button once to return to Pattern Edit Mode, Press STEP/TAP once to enter Tap (Record) Mode, or use appropriate combinations to enter other modes

MAIN PARAMETERS

Step Key Function

Use STEP KEYS in this Mode to Change selected Step slot for editing

Transport Controls

► = Play

When sequence is stopped PLAY LED Flashes ON, when sequence is playing PLAY LED is Solid ON

■ = Stop, or double press to Play

When sequence is stopped STOP LED is Solid ON, when sequence is playing STOP LED is Solid OFF

● = Global Save

SAVE LED Flashes when there is new and unsaved information in the buffer, SAVE LED is OFF when there is no new information in the buffer

BAR

Selects from up to 4 sets of 16 trigger/accent slots per Track to be displayed by the STEP KEYS, where each Bar = 16 possible trigger/accent slots
Displayed as [# #], where left value shows Bar currently playing (or that will play when sequence is activated) and right value shows Bar currently in view on the STEP KEY LEDs

Can enable Bar Auto Follow from this parameter

[1-4; Default: 1]

uTM

Micro Timing, a.k.a. "Nudge"/"Nudging": allows for user to move the timing of a given step forwards or backwards
[-12 to +11; Default: +0]

PRO

Trigger Ratio or Probability Percentage (depending on chosen value)

Indicates either:

1. The definite number of times a trigger will fire after a given number of repeats; OR

Ex. "1:4" means that the trigger will fire once for every 4 repeats (for all Ratios beginning with a "1", the trigger fires on the last repeat/iteration of the group of repeats)

Ex. "7:8" means that the trigger will fire 7 times for every 8 repeats (for all Ratios beginning with 2, 3, or 7, the trigger will fire in the first 2, 3, or 7 repeats)

2. The probability that the trigger will fire, expressed as a percentage [Off, 1/2, 1/3, 1/4, 1/5, 1/6, 1/7, 1/8, 2/3, 3/4, 7/8, 10%, 25%, 50%, 75%, 90%; Default: Off]

RTG

Retrigger a.k.a. "Ratchet"/"Ratcheting": selects the number of times that a trigger will fire within a given step slot, which helps with creating Duplets and Triplets within a Step, as well as creating Rolls/Flams
/128: Trigger plays eight times, evenly distributed (Duplet, as Octuplet)
/96: Trigger plays six times, evenly distributed (Triplet, as Sextuplet)
/64: Trigger plays four times, evenly distributed (Duplet, as Quadruplet)
/48: Trigger plays thrice, evenly distributed (Triplet)
/32: Trigger plays twice, evenly distributed (Duplet)

/24: Trigger plays twice, 66% & 33% (Triplet) (ex. Eighth note triplet with Quarter Note + Eighth Note)
[Off, /128, /96, /64, /48, /32, /24; Default: Off]

ADDITIONAL PARAMETERS

Copy Step & Paste Step

Copy & Paste individual steps from Step Events Mode

Step will be copied with all parameters intact, including:

Whether it is a Trigger without Accent or Trigger with Accent

Pattern Edit Mode parameter values

Step Event Mode parameter values

Note Edit Mode (CV/Gate Track only) parameter values

All other relevant parameters to Trigger or CV/Gate Track steps

To Copy a Step:

1. Hold SHIFT + Press STEP KEY to enter Step Events Mode for the Step that will be copied

2. Press COPY Button

To Paste a Step:

1. Press STEP KEY for the destination Step Slot

2. Press PASTE Button

3. If satisfied, Press ● (RECORD) Button to Save

Copy Step & Paste Step into a Different Track

To Copy a Step:

1. Hold SHIFT + Press STEP KEY to enter Step Events Mode for the Step that will be copied

2. Press COPY Button

To Paste a Step:

1. Navigate to destination Track (whether it be TR 1-16 or CV/Gate Track)

2. Hold SHIFT + Press STEP KEY to enter Step Events Mode for the destination Step in the destination Track

3. Press PASTE Button

4. If satisfied, Press ● (RECORD) Button to Save

Step Entry (Add Step) & Step Delete (Remove Step)

To Enter a Step from Step Events Mode:

Hold SHIFT + Press STEP KEY on any empty step slot

To Delete a Step from Step Events Mode:

Hold SHIFT + Press STEP KEY on any occupied step slot

NOTE: As well as adding a Trigger, for units using firmware v. 1.055 or earlier this will also change the selected step key (fixed in v. 1.056, May 22 2020 Release)

NOTE: If Accents are enabled on the Track then Steps entered through Step Events Mode will be Accented, cannot enter un-Accented steps from Step Events mode

Save

Press ● (RECORD) button to Save at any time

Undo ("Pattern Reload")

To Undo or Recall to the Last Saved State of a Pattern:

Hold ENC1 (Encoder 1) + Press ENC2 (Encoder 2)

Move All Track Steps

To Move all Steps within a single Track:

Move Steps Left:

Hold SHIFT + Press COPY (multiple presses of COPY while holding SHIFT to move >1 sequence slot to the left)

Move Steps Right:

Hold SHIFT + Press PASTE (multiple presses of PASTE while holding SHIFT to move >1 sequence slot to the right)

If satisfied, Press ● (RECORD) Button to Save

PATTERN EDIT MODE: CV/GATE TRACK

OVERVIEW

Description

Full CV/Gate Track for programming melodic sequences with quantized voltages

One CV/Gate Track per Pattern

LEDs

PATTERN Button LED flashes ON/OFF (same as in Pattern Edit Mode within Trigger Tracks)

Access/Exit Method

To Access CV/Gate Track within any given Pattern and Bank:

Hold TRIG SEL Button + Press ENC2 (Encoder 2) [Pattern Edit Mode will be displayed with CV/Gate Track selected under TRIG parameter]; OR, From Pattern Edit Mode, use ENC1 (Encoder 1) to scroll to TRIG parameter then use ENC2 (Encoder 2) to scroll to CV

MAIN PARAMETERS

Step Key Function

Use STEP KEYS in this Mode to Enter & Delete a Trigger(s) for currently selected Track

Transport Controls

► = Play

When sequence is stopped PLAY LED Flashes ON, when sequence is playing PLAY LED is Solid ON

■ = Stop, or double press to Play

When sequence is stopped STOP LED is Solid ON, when sequence is playing STOP LED is Solid OFF

● = Global Save

SAVE LED Flashes when there is new and unsaved information in the buffer, SAVE LED is OFF when there is no new information in the buffer

BAR

Selects from up to 4 sets of 16 trigger/accents slots per Track to be displayed by the STEP KEYS, where each Bar = 16 possible trigger/accents slots

Displayed as [# #], where

left value shows Bar currently playing (or that will play when sequence is activated) and

right value shows Bar currently in view on the STEP KEY LEDs

Can enable Bar Auto Follow from this parameter

[1-4; Default: 1]

LEN

Indicates the Length of a given Track represented by a value from 1-64, where each value represents one Trigger/Accent slot & one Step

Bar parameter values will automatically adjust to the chosen LEN value, where each group of 16 values represents another Bar

[1-64; Default: 16]

SCL

Indicates the amount of time that each sequence step (whether Trigger, Accent, or Rest) will occupy, represented by a fraction of one clock pulse

[1/4, 1/8, 1/16, 1/32; Default: 1/16]

TRIG

Indicates the currently displayed Track (Tracks 1-16 or CV Track), represented by a number from 1-16 (corresponding to each of the 16 Trigger/Accent Tracks); OR, CV (corresponding to the CV/Gate Track) [1-16, CV; Default: 1]

ADDITIONAL PARAMETERS

Copy CV/Gate Track into a Different Pattern & Paste CV/Gate Track into a Different Pattern

From Pattern Edit Mode within the CV/Gate Track:

1. Press RECORD Button to Save before Copying
2. To Copy: Press COPY Button in Pattern Edit Mode within the CV/Gate Track
3. To Paste into a Different Pattern:
Press PATTERN to enter Pattern Play Mode, select destination Pattern Hold TRIG SEL + Press ENC2 (Encoder 2) to select the CV/Gate Track for the destination Pattern
Press PASTE Button
4. Press RECORD Button to Save after Pasting **must save after copy / paste** [just get in the habit of pressing ●(RECORD) a lot]

Clear Track

To Clear a Track from Pattern Edit Mode within the CV/Gate Track:
Hold SHIFT + Press CLEAR Buttons to clear the whole track at once; OR, Hold CLEAR Button while the sequence is running to clear the track at the rate that the sequence progresses

I.e. Can remove sections trigger steps within a given Track, without having to clear the entire Track

CV/Gate Step Entry (Add CV/Gate Step) & CV/Gate Step Delete (Remove CV/Gate Step)

To Enter a Step or Delete a Step from Pattern Edit Mode within the CV/Gate Track:

To Enter a Step: Press any STEP KEY, STEP KEY LED will turn Solid ON

To Delete a Step: Press any STEP KEY with an active Trigger enabled, STEP KEY LED will turn OFF

Enable/Disable Accents

To Enable Accents or Disable Accents for a given Track, either:

Hold SHIFT + Press TRIG SEL from Pattern Edit Mode; OR,

Use ENC1 (Encoder 1) to scroll to TRIG parameter, then press ENC2 (Encoder 2)

TRIG Parameter will display a "+" after the Track number to indicate that Accents are enabled (versely, if there is no "+" after the Track number, Accents are not enabled)

NOTE: Accents are only available for Tracks 1-12 (Tracks 13-15 are Trigger only, and Track 16 is either Trigger only or CV/Gate)

Copy Step & Paste Step (from Step Events Mode within the CV/Gate Track)

for units using firmware v. 1.055 or earlier, can only Copy & Paste individual CV/Gate steps from Step Events Mode within the CV/Gate Track Step will be copied with all parameters intact, including:
Whether it is a Trigger without Accent or Trigger with Accent Pattern Edit Mode within the CV/Gate Track: CV/Gate Track parameter values

Step Events Mode within the CV/Gate Track: parameter values

Note Edit Mode (CV/Gate Track only) parameter values

All other relevant parameters to Trigger or CV/Gate Track steps

To Copy a Step:

1. Hold SHIFT + Press STEP KEY to enter Step Events Mode within the CV/Gate Track for the Step that will be copied
2. Press COPY Button

To Paste a Step:

1. Press STEP KEY for the destination Step Slot
2. Press PASTE Button
3. If satisfied, Press ●(RECORD) Button to Save

Copy Step & Paste Step into a Different CV/Gate Track (from Step Events Mode within the CV/Gate Track)

To Copy a Step:

1. Hold SHIFT + Press STEP KEY to enter Step Events Mode within the CV/Gate Track for the Step that will be copied
2. Press COPY Button

To Paste a Step:

1. Navigate to destination CV/Gate Track
2. Hold SHIFT + Press STEP KEY to enter Step Events Mode within the CV/Gate Track for the destination Step in the destination Track
3. Press PASTE Button
4. If satisfied, Press ●(RECORD) Button to Save

Clear CV/Gate Track Steps

To Clear CV/Gate Track Steps:

Hold SHIFT + Press CLEAR

Track will be reset to Default settings:

Length (LEN): 16

Scaling (SCL): 1/16

All Triggers are removed

CV/Gate Track Step Events parameters reset to default

Save

Press ●(RECORD) button to Save at any time

Undo ("Pattern Reload")

To Undo or Recall to the Last Saved State of a Pattern:

Hold ENC1 (Encoder 1) + Press ENC2 (Encoder 2)

Move All CV/Gate Track Steps

To Move all Steps within the CV/Gate Track:

Move Steps Left:

Hold SHIFT + Press COPY (multiple presses of COPY while holding SHIFT to move >1 sequence slot to the left)

Move Steps Right:

Hold SHIFT + Press PASTE (multiple presses of PASTE while holding SHIFT to move >1 sequence slot to the right)

If satisfied, Press ●(RECORD) Button to Save

Bar Auto Follow

Maintains the same value for the Bar in view and the Bar currently playing STEP KEY LEDs update in real time to show the Bar that is currently playing once the sequence is activated, LEDs "scroll" with the CV/Gate Track sequence as it is playing

Displayed as [# → #], where Left value and Right value are always the same

CV/Gate Track Last Step

To quickly set the Last Step – and therefore to quickly set the length – of a Track in Pattern Edit Mode within the CV/Gate Track or Step Events Mode within the CV/Gate Track:

1. If Track Last Step / Track Length >16, use ENC2 (Encoder 2) in BAR parameter of Pattern Edit Mode within the CV/Gate Track to scroll to the appropriate Bar
Bar 1: Tracks 1-16 steps long
Bar 2: Tracks 17-32 steps long
Bar 3: Tracks 33-48 steps long
Bar 4: Tracks 49-64 steps long
2. Hold LAST STEP + Press STEP KEY for desired last step in the CV/Gate Track (LEN value will change on OLED Screen in Pattern Edit Mode within the CV/Gate Track)
3. If satisfied, Press ●(RECORD) Button to Save

CV/GATE TRACK SHUFFLE (SWING)

Overview: Description

In Pattern Edit Mode within the CV/Gate Track, sets the Shuffle (Swing) Amount for CV/Gate Track
(Submenu Default: No Shuffle, a.k.a. 50% Swing)

Overview: LEDs

SHUFFLE LED is Solid ON for as long as SHUFFLE Button is pressed in Pattern Edit Mode within the CV/Gate Track

Overview: Access/Exit Method

To Access CV/Gate Track Shuffle:

Hold SHUFFLE Button in Pattern Edit Mode within the CV/Gate Track

To Exit CV/Gate Track Shuffle:

Release SHUFFLE Button in Pattern Edit Mode within the CV/Gate Track

Step Key Function

Use STEP KEYS in this Submenu to Add or Remove Triggers/Accents

CV/Gate Track Shuffle (Swing) Value

Represented in "ticks" along a horizontal axis, where
1st "tick" (far left) = No Shuffle
Last "tick" (far right) = Maximum Shuffle
Use ENC2 (Encoder 2) to change Shuffle Value
[1-7; Default: 1]

CV/GATE TRACK DIRECTION

Overview: Description

Sets the direction of step movement within the CV/Gate Track
[Submenu Default: FORWARD]

Overview: LEDs

DRCTN LED is Solid ON for as long as the DRCTN Button is held in Pattern Edit Mode within the CV/Gate Track

Overview: Access/Exit Method

To Access CV/Gate Track Direction:
Hold DRCTN Button in Pattern Edit Mode within the CV/Gate Track
To Exit CV/Gate Track Direction:
Release DRCTN Button in Pattern Edit Mode within the CV/Gate Track

Step Key Function

Use STEP KEYS in this Submenu to Add or Remove Triggers/Accents

Track Direction Value & Available CV/Gate Track Directions

Use ENC2 (Encoder 2) to change CV/Gate Track Direction

FORWARD: Steps progress in numerical order, and visually from Left-to-Right, Top-to-Bottom

BACKWARD: Steps progress in backward numerical order, and visually from Right-to-Left, Bottom-to-Top

PING-PONG: Steps progress in numerical order, and visually from left-to-right, top-to-bottom until the end of the sequence, where steps then progress in backward numerical order, and visually from Right-to-Left, Bottom-to-Top until Step 1

RANDOM: Steps progress in an aperiodic, unpredictable order, and visually from any STEP KEY LED to any other

[FORWARD, BACKWARD, PING-PONG, RANDOM; Default: FORWARD]

CV/GATE TRACK PERFORM

Description

Use this submenu to send and loop record real-time Trigger and Pitch CV from the GATE and CV Output jacks by pressing the STEP KEYS

LEDs

STEP/TAP & PATTERN LEDs Flash ON/OFF similarly to Tap (Record) Mode

Access/Exit Method

To Access CV/Gate Track Perform:
Press STEP/TAP Button from Pattern Edit Mode with CV/Gate Track selected

To Exit CV/Gate Track Perform:

Press PATTERN Button to exit to Pattern Edit Mode within the CV/Gate Track; OR,
Press ENC1 (Encoder 1) to exit to Note Edit Mode; OR,
Follow previous instructions to enter other Modes & Menus

Step Key Function

If accessed from Pattern Edit Mode within the CV/Gate Track:
STEP KEYS output triggers from GATE jack and scale tones from CV jack,
use this to perform

If accessed from Note Edit Mode:
STEP KEYS select current step to be edited in Note Edit Mode

Transport Controls

► = Play

When sequence is stopped PLAY LED Flashes ON, when sequence is
playing PLAY LED is Solid ON

■ = Stop, or double press to Play

When sequence is stopped STOP LED is Solid ON, when sequence is
playing STOP LED is Solid OFF

● = Record

Enables looped recording of steps performed on the STEP KEYS in real time
Steps performed over existing CV/Gate Track will overwrite (overdub)
that CV/Gate Track

SCL

Selects the quantized Scale (and therefore the available note values)
of the CV/Gate Track

CHR = Chromatic

MAJ = Major

MIN = Minor

PEN = Major Pentatonic

DOR = Dorian

PHR = Phrygian

LYD = Lydian

MIX = Mixolydian

LOC = Locrian

[Default: CHR (Chromatic)]

ROO

Selects the Root Note of the Scale of the CV/Gate track
[C to B, Default: C1]

OCT

Selects the Octave of the Root Note of the Scale

Change OCT values by pressing COPY Button (decrease value) and
PASTE Button (increase value)
[-3 to 4; Default: 0]

Keyboard Transpose (Octaves)

Cycle between Octaves in CV/Gate Track Perform Mode:
Press COPY Button to decrease the Octave value
Press PASTE Button to increase the Octave value

NOTE EDIT MODE (WITH CV/SOUND SOURCE TUNING TIPS)

Description

Use this mode to adjust various parameters related to the CV/Gate Track,
including per-step values and quantization (musical scales & modes)

LEDs

PATTERN LED will turn OFF

STEP KEY LED for the currently selected step Flashes ON

Access/Exit Method

To Access Note Edit Mode:

Press ENC1 (Encoder 1) from Pattern Edit Mode within the CV/Gate Track

To Exit Note Edit Mode:

Press ENC2 (Encoder 2) to return to Pattern Edit Mode within the CV/
Gate Track; OR,
Press SHIFT+STEP KEY to enter Step Events Mode within the CV/Gate
Track instead; OR,

Follow previous instructions to enter other Modes & Menus

Page 1: Main Parameters – Select a Step, BAR, NTE, OCT, LENG

Select a Step

Use STEP KEYS to select a Step within the sequence to be edited

BAR

Indicates the number of Bars in the Track, and the current Bar location
in real-time, therefore it performs the same function as in Pattern Edit
Mode

Press ENC2 (Encoder 2) to initiate Bar Auto Follow
[1, 12, 13, 14, 21, 22, 23, 24, 31, 32, 33, 34, 41, 42, 43, 44; Default: 11]

NTE

Shows Note value for selected step
[C3 to B4, 7 octaves + 11 semitones, Default: C0]

Tuning Tips

To Match the Tuning of a Sound Source with Drum Sequencer:

Select the CV/Gate Track in Pattern Edit Mode with TRIG SEL + ENC2
(Encoder 2)

Open Note Edit mode by pressing ENC1 (Encoder 1), ensure that NTE =
C and OCT = 0 [Default values]

Open CV/Gate Track Perform mode by pressing STEP/TAP Button, en-
sure that NTE = C and OCT = 0 [Default values]

Connect 2 cables: one from the CV OUT jack to the 1v/oct input on a
given sound source, and one from the sound source to the input of a
tuner (ex. Mordax Data in Tuner mode)

Select/create the simplest possible waveform (i.e. with the least
harmonic content, a Sine Wave is ideal for tuning) on the sound source
With the Default OCT value (0) selected on Drum Sequencer, press STEP
KEY #13 (the bottom left STEP KEY) and observe the result on the
connected Tuner (if there is no result, adjust the Frequency/coarse tuning
knob on the sound source until a pitch is detectable by the tuner)

Adjust the Frequency/coarse tuning knob on a given sound source to correspond to the desired playable range (see below for tuning ranges to Basslines & Leads/Pads)

For Basslines: Tune the output of the target sound source to C3 (130.81Hz) with the simplest/least harmonically rich waveform available. Treat the Default C0 note value on Drum Sequencer like the C3 (130.81Hz) you have just tuned. This translates to a **playable/programmable range of C0 (16.35Hz) to B7 (3,951.07Hz, 3.95kHz)** for the given **Drum Sequencer range of C-3 to B+4**

For Leads/Pads: Tune the output of the target sound source to C6 (1,046.50Hz) with the simplest/least harmonically rich waveform available. Treat the Default C0 note value on Drum Sequencer like the C6 (1,046.50Hz) you have just tuned. This translates to a **playable/programmable range of C3 (130.81Hz) to B10 (31,608.53Hz, 31.61kHz)** for the given **Drum Sequencer range of C-3 to B+4**

OCT

Shows the selected Octave where the Note will sound
[-3 to +4, 7 octaves, Default: 0]

LENG

Controls the Gate Length of each selected step
[1-23+TIE, Default: 14]

Page 2: Scale Selection – SCL, ROO, OCT, Octave Transpose

SCL

Selects the quantized Scale (and therefore the available note values) of the CV/Gate Track

CHR = Chromatic

MAJ = Major

Min = Minor

PEN = Major Pentatonic

DOR = Dorian

PHR = Phrygian

LYD = Lydian

MIX = Mixolydian

LOC = Locrian

[Default: CHR (Chromatic)]

ROO

Has no effect when this menu is accessed via Note Edit Mode (only when accessed via Pattern Edit Mode by pressing STEP/TAP Button)

OCT

Has no effect when this menu is accessed via Note Edit Mode (only when accessed via Pattern Edit Mode by pressing STEP/TAP Button)

Additional Parameters: Note Slide Entry & Slide Delete, CV Transpose

Note Slide Entry & Slide Delete

CV Transpose

CV/GATE TRACK RANDOMIZATION

Description

Exclusive to the CV/Gate Track, use this submenu to randomize up to four parameters (note value, octave, step on/off, and gate length) according to selected probability values

NOTE: All CV Randomization parameters other than 0 can choose any parameter value regardless of the chosen probability value (i.e. CV Randomization probability values have no effect on modulation depth (i.e. how different the randomized value is from the original), only whether or not the change will/won't happen after pressing BANK button)

LEDs

All Button LEDs are OFF, STEP KEY LEDs indicate the currently active Steps for the selected Bar in the CV/Gate Track sequence

Access/Exit Method

To Access CV/Gate Track Randomization:

Hold SHIFT + Press SHUFFLE Button from either Pattern Edit Mode within the CV/Gate Track or Note Edit Mode

To Exit CV/Gate Track Randomization:

Press PATTERN Button to return to Pattern Edit Mode within the CV/Gate Track; OR,

Press STEP/TAP Button to enter CV/Gate Track Perform mode; OR, Follow previous instructions to enter other Modes & Menus

BANK Button Function

After entering desired probability values, press the BANK Button to randomize the NTE, OCT, STP, and LENG parameters

To maintain the new values on power off, press ● (RECORD) Button to Save Randomize as many times as desired, and – unless ● (RECORD) Button is pressed – revert to original values by pressing ENC1 + ENC2 (Encoder 1 + Encoder 2) to Undo

Step Key Function

STEP KEY LEDs indicate currently active steps, but as of firmware v. 1.056 pressing STEP KEYS has no effect

NTE

Note value randomization probability (values represent percentages)
[0, 25, 50, 75, 100; Default: 0]

OCT

Octave value randomization probability (values represent percentages)
[0, 25, 50, 75, 100; Default: 0]

STP

Step/Gate ON randomization probability (values represent percentages)
[0, 25, 50, 75, 100; Default: 0]

LENG

Gate Length randomization probability (values represent percentages)
[0, 25, 50, 75, 100; Default: 0]

LFO MODE

OVERVIEW

Description

2 independent, programmable Low Frequency Oscillators (LFOs) are available for each Pattern

LEDs

Button LEDs are OFF, LED for STEP KEY 1 is Solid ON

Access/Exit Method

To access LFO Mode (both LFOs)

Hold TRIG SEL + Press ENC1 (Encoder 1)

To exit LFO Mode (both LFOs)

Press PATTERN Button to return to Pattern Edit Mode for the last selected Track

(TR1-16, CV/GATE, or RST); OR,

Press STEP/TAP Button to enter Tap (Record) Mode for the last selected Track (TR1-16, CV/GATE, or RST); OR,

Follow previous instructions to enter other Modes & Menus

MAIN PARAMETERS

LFO

LF01/LF02 selection

[1, 2; Default: 1]

WAV

Waveform selection, with a choice of:

Sine (SIN)

Triangle (TRI)

Saw (SAW)

Square (SQU, 50% Pulse)

Sample & Hold (S&H, Random)

(SIN, TRI, SAW, SQU, S&H; Default: Varies by Pattern, A1 Default for LF01/2 is SIN)

FRQ

LFO Frequency or Clock Sync subdivision

[Frequency Values: 1-255; Default: Varies by Pattern, A1 Default for LF01/2 is Tempo Sync value 1/4]

[Tempo Sync Values: x2, x1, 1/2, 1/4, 1/8, 1/16, 1/32; Default: Varies by Pattern, A1 Default for LF01/2 is tempo Sync value 1/4]

AMP

LFO Amplitude (LFO Depth)

For quick scrolling (larger scrolling intervals)

Hold SHIFT + Turn ENC2 with AMP parameter selected
[0-100, Default 100]

ADDITIONAL PARAMETERS

Save

Press ●(RECORD) button to Save at any time

Undo ("Pattern Reload")

To Undo or Recall to the Last Saved State of a Pattern:
Hold ENC1 (Encoder 1) + Press ENC2 (Encoder 2)

SONG MODE

OVERVIEW

Description

Song Mode (either Page 1: Song Write Mode or Page 2: Song Play Mode) enables the user to connect different patterns together at chosen lengths, and to arrange in larger forms

LEDs

BANK Button LED Flashes ON, STEP KEY LED for the selected Song number is Solid ON

Access/Exit Method

To Access Song Mode:

Hold SHIFT + Press BANK Button

To Exit Song Mode:

Press PATTERN Button to return to Pattern Edit Mode for the last selected Track

(TR1-16, CV/GATE, or RST); OR,

Press STEP/TAP Button to enter Tap (Record) Mode for the last selected Track (TR1-16, CV/GATE, or RST); OR,

Follow previous instructions to enter other Modes & Menus

PAGE 1: SONG WRITE MODE

Step Key Function

STEP KEY Buttons are used to quickly select between Songs 1-16

Transport Controls

► = Play

When sequence is stopped PLAY LED Flashes ON, when sequence is playing PLAY LED is Solid ON

■ = Stop, or double press to Play

When sequence is stopped STOP LED is Solid ON, when sequence is playing STOP LED is Solid OFF

● = Global Save

SAVE LED Flashes when there is new and unsaved information in the buffer, SAVE LED is OFF when there is no new information in the buffer

SGN

Song Number Selection, store up to 16 Songs at a time
[1-16; Default: 1]

POS

Position of a given Pattern in the Song, press and turn ENC2 (Encoder 2) for quick scrolling (larger scrolling intervals)
[1-500; Default: 1]

PTR

Pattern Selection

[128 total available patterns; 16 x A-H {8}; Default: currently selected Pattern in Pattern Play Mode]

LEN

Song Length Selection (number of Patterns in a given Song)
[1-500; Default: 1]

ADDITIONAL PARAMETERS

Pattern Arming

Similar to Mute Arming, arm any pattern such that it will play at the beginning of next sequence iteration from when the user presses the ENC2 (Encoder 2) (setup a pattern ahead of time)

To Arm a Pattern in Song Write Mode:

1. While a Song is playing, Use ENC1 (Encoder 1) to highlight the PTR parameter and then use ENC2 (Encoder 2) to find and select the Pattern that will be armed
2. When ready, press ENC2 (Encoder 2) to lock that Pattern into place, it will play at the end of the currently playing Pattern

PAGE 2: SONG PLAY MODE

Description

Of Song Write & Song Play, this is the simpler of the two modes, responsible only for displaying the current Song number, Position, and Pattern Song Play Mode functions as a Submenu (layer) of Song Write Mode

LEDs

BANK Button LED is Solid ON, STEP KEY LED for the selected Song number is Solid ON

Access/Exit Method

To Access Song Play Mode:

Hold SHIFT + Press BANK Button from Song Write Mode; OR,
Hold SHIFT + Press BANK Button + Hold SHIFT + Press BANK Button from any other Mode

To Exit Song Play Mode:

Hold SHIFT + Press BANK Button to return to Song Write Mode; OR,
Press PATTERN Button to return to Pattern Edit Mode for the last selected Track

(TR1-16, CV/GATE, or RST); OR,

Press STEP/TAP Button to enter Tap (Record) Mode for the last selected Track (TR1-16, CV/GATE, or RST); OR,
Follow previous instructions to enter other Modes & Menus

Step Key Function

STEP KEY Buttons are used to quickly select between Songs 1-16

Pos

In Song Play Mode, Pos is not a parameter but merely an on-screen indication of the current Song Position (possible values ranging 1-500)

PTR

In Song Play Mode, Ptrn is not a parameter but merely an on-screen indication of the Pattern associated with the current Song Position

Jump to Song Position 1

While a Sequence is Stopped:

From Song Play Mode only: Press CLEAR Button to quickly jump to Song Position 1

While a Sequence is Playing:

From Song Play Mode only: Press CLEAR Button to jump to Song Position 1 at the end of the current Song Position

SETTINGS

OVERVIEW

Description

Use this Mode (two page screens in total) to adjust various Global characteristics of the Drum Sequencer

LEDs

All Button & STEP KEY LEDs are OFF in Settings Mode

Access/Exit Method

To Access Settings:

Hold SHIFT + Press ► = Play Button

To Exit Settings:

Press PATTERN Button to return to Pattern Edit Mode for the last selected Track

(TR1-16, CV/GATE, or RST); OR,

Press STEP/TAP Button to enter Tap (Record) Mode for the last selected Track (TR1-16, CV/GATE, or RST); OR,

Follow previous instructions to enter other Modes & Menus

Transport Controls

► = Play

When sequence is stopped PLAY LED Flashes ON, when sequence is playing PLAY LED is Solid ON

■ = Stop, or double press to Play

When sequence is stopped STOP LED is Solid ON, when sequence is playing STOP LED is Solid OFF

● = Global Save

SAVE LED Flashes when there is new and unsaved information in the buffer, SAVE LED is OFF when there is no new information in the buffer

PAGE 1

Step Key Function

STEP KEYS serve no function in Page 1 of the Settings

SYN

Tempo Synchronization: Determines the Global Clock source, with the options

MST: Primary (Master) (self-clocked, 30-250 BPM)

Clock is determined by the module itself

MID: MIDI In (via 3.5-mm MIDI IN jack & included 3.5-mm to 5-pin DIN adapter)

Clock is determined by incoming MIDI Clock pulses

CLK: Clock Pulse In (via 3.5-mm CLK IN jack)

Clock is determined by incoming Clock Trigger pulses at 16 ticks per beat, otherwise known as 4PPQN

[MST, MID, CLK; Default: MST]

BPM

Sets the Default (unsaved) Global BPM at power up

[30-250; Default: 120]

PUL

Pulse Width control for Trigger Outputs, in milliseconds (ms)

This determines the duration (length of time from start to finish) for each Trigger voltage that is sent from the TR output jacks

This setting is especially useful since

Analog drum modules and drum machines typically respond better with shorter clock triggers

Digital drum modules and drum machines do not typically require short clock triggers, and (depending on the model) can sometimes respond better with longer clock triggers

[2-10; Default: 10]

CLK

Clock Output Rate including Divisions, Multiplications, and various PPQN options

Translates the Primary clock (whether it is coming from the Drum Sequencer, MIDI, or Clock Trigger sources) into a division, multiplication, or different clocking standard

In this way, the Drum Sequencer can serve as a bridge for tempos between units that otherwise might not have been able to remain in-sync!

This setting is useful for clocking secondary synthesizers and drum machines of various types (computers, modules, vintage analog, etc.)

[2/1, 1.1, 1.2, 1.4, 12p, 24p, 48p; Default: 1:1]

PAGE 2

Access/Exit Method

To Access Settings Page 2:

Hold SHIFT + Press ► = Play Button from Settings Page 1

To Exit Settings Page 2:

Hold SHIFT + Press ► = Play Button to return to Settings Page 1

Press PATTERN Button to return to Pattern Edit Mode for the last selected Track [TR1-16, CV/GATE, or RST]; OR,

Press STEP/TAP Button to enter Tap (Record) Mode for the last selected Track [TR1-16, CV/GATE, or RST]; OR,

Follow previous instructions to enter other Modes & Menus

Step Key Function

STEP KEYS only function when MUT or ACx parameters are selected

If so, STEP KEYS allow for the quick selection of AC values 1-12, corresponding to Accent outputs 1-12

COPY

Bar Auto/Manual Copy: Determines whether a 1-bar sequence will be automatically [AUT] copied/duplicated when the length of the pattern is extended to a greater number of bars

In Manual [MAN], the user will have to copy the 1-bar sequence themselves to each subsequent bar in the pattern where the sequence is required [MAN, AUT; Default: AUT]

RST

Determines the behaviour of TR16 (Trigger 16): whether as a standard Trigger, or a Reset Out

MUT

Determines the behaviour of AC (Accent) Outputs while the Track is Muted. In the ON (default) state, steps with Accents will be muted when the Track is muted

In the OFF state, Tracks with Accents will output Accent voltage even when the Track is muted in Mute Mode

ACX

Determines the voltage levels of gates sent through the AC (Accent) Outputs, whether 10V (default) or 5V

[5V, 10V; Default: 10V]

FACTORY RESET

EEPROM Initialization

To clear all saved user data from Drum Sequencer and revert to factory settings, initialize the EEPROM (Electrically Erasable Programmable Read-Only Memory)

1. Turn off Drum Sequencer
2. Hold ► = Play + ■ = Stop buttons
3. While holding ► = Play + ■ = Stop, turn on Drum Sequencer
4. [initialization] text will appear on screen, and STEP KEYS will gradually turn Solid ON in order from 1 to 16 to indicate progress
5. Wait until complete, Drum Sequencer will return to Pattern A1, Track 1 in Pattern Edit Mode

FIRMWARE UPDATES

CURRENT FIRMWARE VERSION

To verify the currently installed firmware version on your Drum Sequencer, power up the unit and observe the first text on screen (it will disappear after 2-3 seconds)

Ex. Boot Screen for Firmware version 1.056



UPDATE PROCEDURE: REQUIRED HARDWARE & SOFTWARE

Hardware

3.5-mm to 5-pin DIN (5-pin MIDI) adapter (included with your Drum Sequencer)

5-pin DIN (5-pin MIDI) cable

An Audio Interface with 5-pin MIDI Output and USB connection to a desktop (PC or Mac)

As of firmware v. 1.056, it is unclear if MIDI transmitted over a USB-to-DIN adapter (such as Roland UM-ONE, Art Pro Audio MCONNECT, or MIDI Sport UNO) will yield consistent results

As of firmware v. 1.056, MIDI Outputs from Focusrite audio interfaces seem to yield the most consistent results, but most audio interfaces with 5-pin MIDI out should work

Software

Download the latest firmware (choose the file in .syx format) for Drum Sequencer here

For Mac: Download and Install SysEx Librarian here

For PC: Download and Install MIDI-OX here or at www.midiox.com

UPDATE PROCEDURE: WINDOWS PC

For a quick video on how to update your Drum Sequencer firmware using a Windows PC, visit YouTube here

NOTE: Video shows Software steps but does not show what happens on Drum Sequencer's screen (only describes it), for an in-depth explanation of how to update your firmware, see below

Step 1: Download & Install MIDI-OX

Download & Install MIDI-OX Software to your Windows PC here or at www.midiox.com

If you have obtained the file using the direct download link above, skip to part IV in Step 1. If you are downloading via www.midiox.com, follow the steps below:

1. From a browser, visit www.midiox.com and click "Download: MIDI-OX 7.0.2" at the centre of the screen



3. Once the download has completed, open the .exe file at the bottom of your browser window (assuming you are using Chrome, Firefox, Microsoft Edge, or Internet Explorer)



2. At the download page, select "Download" next to "MIDI-OX 7.0.2"



4. Open the .exe file and progress through WinZip Self-Extractor by clicking "Setup" and following the steps on-screen

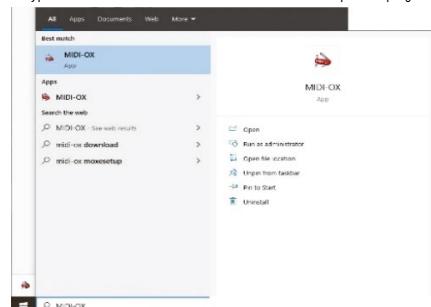


Step 2: Open MIDI-OX

1. Press the Windows key labelled as "WIN", "Win" or



2. Type "MIDI-OX" in the search bar and click the link to open the program

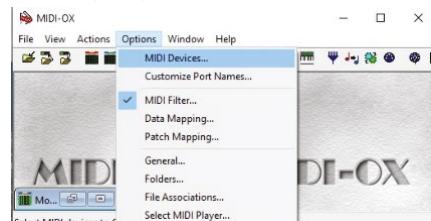


3. You should now see the MIDI-OX user interface



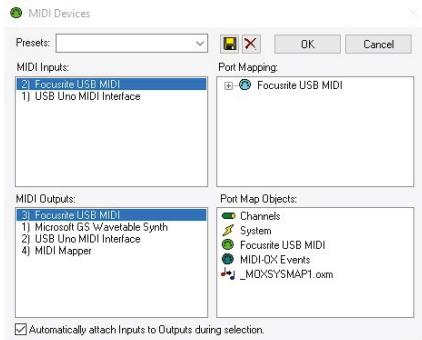
Step 3: Configure MIDI Output Device

1. Configure your audio interface as a MIDI Output device in MIDI-OX. To do this, go to "Options > MIDI Devices..."



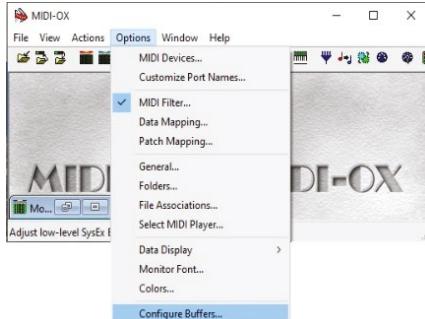
2. In the "MIDI Devices" MIDI I-O window, select the MIDI Output for your audio interface from the list in the bottom left-hand box. You should see your selection appear in the top right-hand box labelled "Port Mapping".

(NOTE: If you do not see the MIDI Output for your audio interface in this list, check your USB connection between the interface and your computer, and update any USB drivers for your audio interface, as necessary)

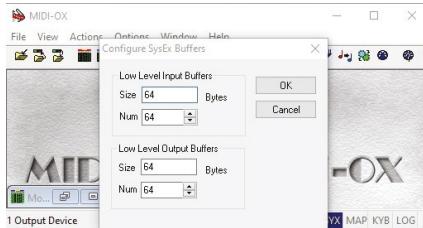


Step 4: Configure Buffers

1. Configure the correct input and output buffer sizes. To do this, go to "Options > Configure Buffers..." (see next page for further steps)



2. Select "64" for all 4 input fields then click "OK"

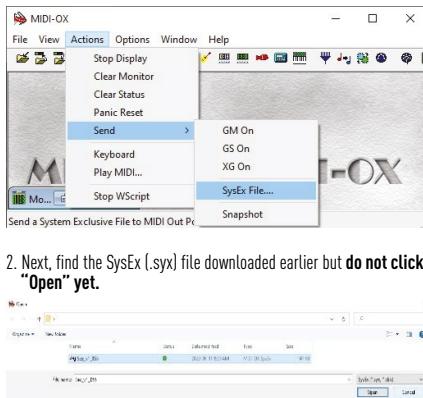


Step 5: Connect MIDI Cable & Adapter

1. Connect the 3.5-mm to 5-pin DIN (MIDI) adapter that was included with your Drum Sequencer to the MIDI IN jack
2. Connect one end of a 5-pin DIN (MIDI) cable to the other end of the adapter
3. Connect the other end of the 5-pin DIN (MIDI) cable to the 5-pin DIN (MIDI) Input on your audio interface (ensure that your audio interface is still connected in the same way it was when you configured your MIDI Output Device in Step 3)

Step 6: Prepare to send SysEx File

1. Send SysEx file over MIDI from your computer to Drum Sequencer. To do this, start by going to "Actions > Send > SysEx File...."

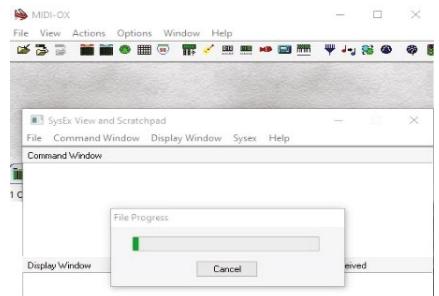


2. Next, find the SysEx (.syx) file downloaded earlier but **do not click "Open" yet.**

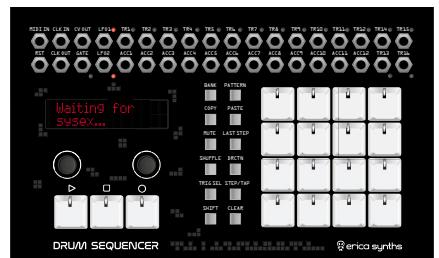
3. If not powered down already, turn off Drum Sequencer with all cables still connected.

Step 7: Send SysEx File

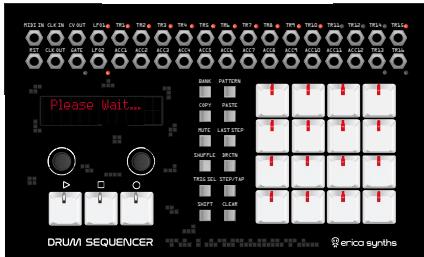
1. With the .syx file selected on your desktop, turn to your module and Hold STEP KEYS 1 & 4 then
2. Turn on the power to Drum Sequencer and immediately press Enter on your keyboard to send the SysEx File. It is especially important that there is as little time between sending power to the module and sending the SysEx file as possible.
3. On MIDI-OK you will see a progress view:



4. At first, Drum Sequencer will display a "Waiting for sysex..." screen



5. If the process continues successfully, you will progress to the following screen



6. From here, you will see the STEP KEY LEDs begin OFF then gradually turn ON in order from left-to-right, top-to-bottom. Once complete, the Drum Sequencer will return to the default Pattern Edit mode

Step 8: Initialize the Module (EEPROM)

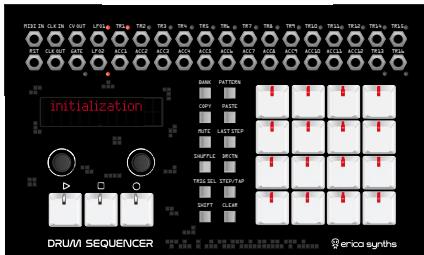
1. After completing all firmware updates it is highly recommended that you initialize the on-board memory (EEPROM) to ensure the reliability of the instrument

2. To initialize the EEPROM (Electrically Erasable Programmable Read-Only Memory)

Turn off Drum Sequencer

Hold ▶ = Play + ■ = Stop buttons

While holding ▶ = Play + ■ = Stop, turn on Drum Sequencer [initialization] text will appear on screen, and STEP KEYS will gradually turn Solid ON in order from 1 to 16 to indicate progress



Wait until complete, Drum Sequencer will return to Pattern A1, Track 1 in Pattern Edit Mode

CHANGE LOGS

VERSION 1.032

Fixes

Shuffle not working in MUTE screen

Encoder 2 not working in TAP mode

Sequencer sometimes not stopping when external clock is stopped

MIDI start/stop not working properly with some devices

Sometimes first step was missed when clocked with external clock

Pattern 10 "ghost" (sometimes would not load/save it properly)

Chained pattern number display

Issues with CV track (sometimes last step of track was not saved properly)

VERSION 1.035

Fixes

Issues with analog CLOCK IN

Reset in sometimes not working correctly

S&H LFO sync times displayed incorrectly

VERSION 1.036

Fixes

Issues with SHUFFLE

Issues with low BPM external clock

VERSION 1.038

Fixes

More accurate master BPM calculation

External clock in bug fix (Now works great as a slave to PNW)

Fixed accent out bug in TAP mode when the sequencer was stopped

Fixed trigger length dropping while in FULL mode

Improved gate length stability for the CV track

Features

CV Slide

In CV track note edit menu press two step keys next to each other to enable slide from the left step to the right step. To remove note slide repeat the same procedure. Small "s" symbol at the length setting indicates that the slide is on

Gate Tie

In CV track note edit page scroll the ENC 2 on the length setting until you reach the TIE setting. The gate will be high until next note trigger is reached

Second Config Page (Settings Page 2)

To access it press SHIFT + PLAY two times while sequencer is stopped

Reset Out

Now you can configure the 16th trigger to work as reset out. It will send

out a trigger signal when the sequencer will be stopped. To enable it go to the master settings page 2 and set RST to ON

Bar Auto Copy

If you extend 1 bar sequence to example to 2 or 4 bars the first bar is automatically copied to the new bars. To enable this go to the second config page and set the CPY to AUT. Works by track and pattern

Add Triggers on Step Events Page

Now you can add or remove triggers on the STEP EVENTS page. To do so press SHIFT + STEP KEY of the trigger you want to turn on/off in the STEP EVENTS page

VERSION 1.041

Fixes

Unit randomly freezing for some users

Drum Sequencer now boots up in "normal" mode instead of "Techno System" mode after update

Enable/Disable accent with ENC2 is back

Improved overall stability of the sequencer

Features

Accent Out Voltage Setting

In config 2nd page you can now set accent level for each of the accent out separately. When cursor is on AC1 select the channel you want to adjust with the regarding step key and then set the out level (5v or 10v) with ENC2

SONG MODE (beta)

To enter SONG WRITE press SHIFT + BANK once, to enter SONG PLAY press SHIFT + BANK twice. In SONG WRITE to preview the pattern press ENC2 while on PTR setting. To save a song press ENTER/REC

VERSION 1.043

Fixes

Random freezing for some users after 1.036

Improved LFO sync

LFO1 setting bug

CV track TAP keyboard fixes

VERSION 1.044

Fixes

Improved LFO sync

LFO settings now reload correctly when changing patterns

BPM display now shows EXT instead of average clock when in CLK and MIDI modes

Last step on CV track is now saved

Mute screen when in MIDI mode now displays actual triggers

Pattern linking now working when in MIDI mode

Freezing for some users when changing clock modes

VERSION 1.048

Fixes & Improvements

Freezing for some users in CV track fixed
Freezing for some users when adjusting uTM fixed
Accents are now off when the track is muted
Track 7 shuffle bug fixed
STOP and PLAY buttons are now off in clock slave mode
Improved CV track BAR copy
Improved TAP record on CV track
Improved pattern sync change
Improved gate length when timing scale changed
Improved group pattern switch
Bunch of other minor bug fixes

Features

Mute Arming
Hold down MUTE button and select the tracks which you want to arm for muting. As you release the MUTE button all selected tracks will be muted. To clear all mutes press SHIFT + MUTE

Pattern Reload

Pattern reload allows you to reload previously saved state of the pattern. To do so press and hold ENC1 and then promptly press the ENC2

CV Track Randomization

1. While in CV track press and hold SHIFT button + promptly press SHUFFLE button
2. Select the parameters with ENC1 and set the value with ENC2
3. For each of parameter you can set the probability percentage for these parameters NTE - note, OCT - octave, STP - step, LENG - length of step
4. To randomise track promptly press BANK button
5. To exit this mode press the Pattern button promptly

CV Track Transpose

While in CV track NOTE EDIT menu with ENC1 set to NOTE edit press and hold SHIFT button + turn the ENCODER 2 to transpose notes. Hold SHIFT + TRIG SEL button while changing value to transpose only the selected BAR

VERSION 1.049

Fixes

Minor bug fixes
Freezing for some users in CV page

Features

Accent Mute Setting
Now in second settings page you can change the behaviour of each accent out in MUTE screen. To do so select the MUT with ENC1 and then press the regarding trigger track buttons to choose the track for which you want to change the setting. Change the setting with ENC2. (Same as for accent voltage setting)
ON setting will mute the accent when MUTE is engaged on the corresponding track
OFF will leave the accent setting as it was in last step before mute was engaged

VERSION 1.054

Fixes

Improved MIDI sync
Fixed losing note on CV track when editing others bars
Fixed CV Tap Screen
Fixed Accent dropped to OV when sequencer is stopped
Minor bug fixes

Features

New Clock Out Settings
12PPQ, 24PPQ and 48PPQ clock out settings added
Copy Pattern to a New Location While Playing
In pattern play mode press & hold the COPY key and choose the destination pattern with STEP KEYS. Copy of the current playing pattern will be saved to chosen destination. A [COPIED!] splash screen will appear
Copy a Step
In STEP EVENTS page hold COPY and then select the step you want to copy with STEP KEYS. Then press and hold the desired slot where you want to paste the copied step and press PASTE
"Octave" and "Root Note" Settings
These can now be accessed from the CV track SCALE screen and also the CV TAP mode
Keyboard Transpose in CV/Gate Track Perform Mode
Press COPY to decrease keyboard by -1 octave, press PASTE to increase keyboard by +1 octave.

VERSION 1.055

Fixes

Accent dropped to OV when sequencer is stopped (fixed for all units now)
In song mode press CLEAR to jump to position 1

VERSION 1.056 (CURRENT AS OF MAY 21ST, 2020)

Fixes

Clock out settings now saved (was broken in 1.055)
Auto copy now also works when step length is increased with encoder
In Step Events page when adding new steps with SHIFT key cursor stays on the selected step
Fixed accent dropouts occurring for some users
Improved instant pattern switching when module is in MIDI Slave mode
Improved LFO performance
Increased Clock Out accuracy in MIDI Slave mode
Splash screen for paste function added
Other minor bug fixes and overall stability improvements

erica synths techno system

an ultimate tool for rhythm based music production, live performances and sound design



SAFETY INSTRUCTIONS



Please follow the instructions for use of the Erica Synths module below, 'cause only this will guarantee proper operation of the module and ensure warranty from Erica Synths.



Water is lethal for most of the electric devices, unless they are made waterproof. This Erica Synths module is NOT intended for use in a humid or wet environment. No liquids or other conducting substances must get into the module. Should this happen, the module should be disconnected from mains power immediately, dried, examined and cleaned by a qualified technician.



Do not expose the module to temperatures above +50° C or below -20° C. If you have transported module in extreme low temperatures, leave it in room temperature for an hour before plugging it in.



Transport the instrument carefully, never let it drop or fall over. Warranty does not apply to modules with visual damages.



The module has to be shipped in the original packaging only. Any module shipped to us for return, exchange and/or warranty repair has to be in its original packaging. All other deliveries will be rejected and returned to you. Make sure you keep the original packaging and technical documentation.



This device complies to the EU guidelines and is manufactured RoHS conforming without use of lead, mercury, cadmium and chrome. Nevertheless, this device is special waste and disposal in household waste is not recommended.

You will find Erica Synths terms of warranty at www.ericasynths.lv

Items for return, exchange and/or warranty repair have to be sent to:

Erica Synths
Andrejostas Str. 43
Riga
Latvia
LV-1045

User manual by Raivo Vainovskis@Erica Synths.

Design by Ineta Briede@Carre Branding.

Copying, distribution or any commercial use in any way is prohibited and needs the written permission by Erica Synths.

Specifications are subject to change without notice.

In case of any questions, feel free to contact us through www.ericasynths.lv or via e-mail info@ericasynths.lv