

Analog Rytm MKII

User Manual

Elektron

FCC compliance statement

This device complies with part 15 of the FCC rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.



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Canada

This This Class B digital apparatus complies with Canadian ICES-003.
Cet appareil numérique de la classe B est conforme à la norme NMB-003

European Union regulation compliance statement

This product has been tested to comply with the Low Voltage Directive 2014/35/EU and the Electromagnetic Compatibility Directive 2014/30/EU. The product meets the requirements of RoHS 2 Directive 2011/65/EU.



This symbol indicates that your product must be disposed of properly according to local laws and regulations.

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IMPORTANT SAFETY AND MAINTENANCE INSTRUCTIONS

Please read these instructions carefully and adhere to the operating advice.

1. Do not use this unit near water.
2. Never use aggressive cleaners on the casing or on the screen. Remove dust, dirt and fingerprints with a soft, dry and non-abrasive cloth. More persistent dirt can be removed with a slightly damp cloth using only water. Disconnect all cables while doing this. Only reconnect them when the product is safely dry.
3. To avoid scratches or damage, never use sharp objects near the casing or the screen. Avoid applying any pressure to the screen itself.
4. Install in accordance with the manufacturer's instructions. Make sure you place the unit on a stable surface before use. If you mount the unit in a rack, be sure to tighten all four screws in the rack mount holes.
5. Connect the unit to an easily accessible electrical outlet close to the unit.
6. When transporting the unit, use accessories recommended by the manufacturer or the original box and padding.
7. Do not install near any heat sources such as radiators, heat registers, stoves, or any other equipment (including amplifiers) producing heat.
8. Do not put a protective cover on the unit while the unit is powered on.
9. This product, by itself or in combination with amplifiers, headphones or speakers, is capable of producing sound levels that may cause permanent hearing loss. Do not operate at a high volume level or at a level that is uncomfortable.
10. Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the unit.
11. Use attachments/accessories specified by the manufacturer.
12. Unplug this unit during lightning storms or when it is not used for long periods of time.
13. Refer all servicing to qualified service technicians. Servicing is required when the unit has been damaged in any way, liquid has been spilled or objects have fallen into the unit, the unit has been exposed to rain or moisture, does not operate normally, or has been dropped.

WARNING

To reduce the risk of fire, electrical shock or product damage:

- Do not expose the unit to rain, moisture, dripping or splashing and also avoid placing objects filled with liquid, such as vases, on the unit.
- Do not expose the unit to direct sunlight, nor use it in ambient temperatures exceeding 30°C as this can lead to malfunction.
- Do not open the casing. There are no user repairable or adjustable parts inside. Leave service and repairs to trained service technicians only.
- Do not exceed the limitations specified in the Electrical specifications.

SOUND PEAKS

- A brief 3 kHz signal will be sent to all outs of the Analog Rytm MKII when the Test mode on the Early Startup menu is activated. Remember to turn down the volume on all speakers and headphones before activating Test mode.
- During calibration there will be loud and unpleasant sounds on the individual outs. Disconnect these during calibration.

SAFETY INSTRUCTIONS FOR THE POWER ADAPTER

- The adapter is not safety grounded and may only be used indoors.
- To ensure good ventilation for the adapter, do not place it in tight spaces. To prevent risk of electric shock and fire because of overheating, ensure that curtains and other objects do not prevent adapter ventilation.
- Do not expose the power adapter to direct sunlight, nor use it in ambient temperatures exceeding 40°C.
- Connect the adapter to an easily accessible electrical outlet close to the unit.
- The adapter is in standby mode when the power cord is connected. The primary circuit is always active when the cord is connected to the power outlet. Pull out the cord to completely disconnect the adapter.
- In the EU, only use CE approved power cords.

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1. INTRODUCTION

Thank you for purchasing Analog Rytm MKII. It is a hybrid analog/digital drum machine featuring, among many other things, the intuitive Elektron step sequencer. The innovative combination of modern technology and tried and trusted ways of sound generation lets you create any kind of drum: purely analog, sample-based or a combination of the two. To get the most out of your machine, we recommend that you read this manual in its entirety.

1.1 CONVENTIONS IN THIS MANUAL

In this manual, we use the following conventions to describe the Analog Rytm MKII user interface:

- **KEY NAMES**

Written in uppercase, bold style and within brackets. For example, the key labeled “FUNC” is called **[FUNC]**.

- **KNOBS**

Written in uppercase, bold, italic letters. For example, the knob “Track Level” is called ***TRACK LEVEL***.

- **LED INDICATORS**

Written in uppercase letters with angle brackets. For example, the pattern page LEDs are called: <PATTERN PAGE>.

- **MENU NAMES**

Written in uppercase letters. For example, the PROJECT menu.

- **PARAMETER NAMES, MENU OPTIONS**

Written in uppercase bold letters for parameter names and certain menu options where you can make settings or perform actions. For example, **CLOCK SEND**.

- **PARAMETER SETTING ALTERNATIVES**

Written in uppercase letters. For example, OFF.

- **SCREEN MESSAGES**

Written in uppercase letters with quotation marks. For example, “BANK A: CHOOSE PTN.”

You also find the following symbols throughout the manual:



Important information that requires your attention.



A tip that makes it easier for you to interact with the Analog Rytm MKII

2. THE ANALOG RYTM MKII

Rhythm, a forward motion carried by regular elements and silences, is something that is present in all our lives. You can see it in the motion of the astronomical bodies that creates the shifting of days, months and years. It is also happening inside our human bodies where biological clocks are governing our internal processes. The rhythm of life drives us inexorably forward and carries us along on our journey.

However, rhythm is not only something that controls us, but it is also something we control and create. We harness the rhythm of probability and re-occurrence to guide us to make the right decisions. We create cycles and patterns that help us to make order in a complex world and to establish a sense of stability in life.

Rhythm is also one of the foundational building blocks of music. The steady beat of the drums has been our constant companion throughout all human history. From the primitive beats of the ancient tribal cultures via the classical masters to the dark dance floors of the Berlin clubs - rhythm is there!

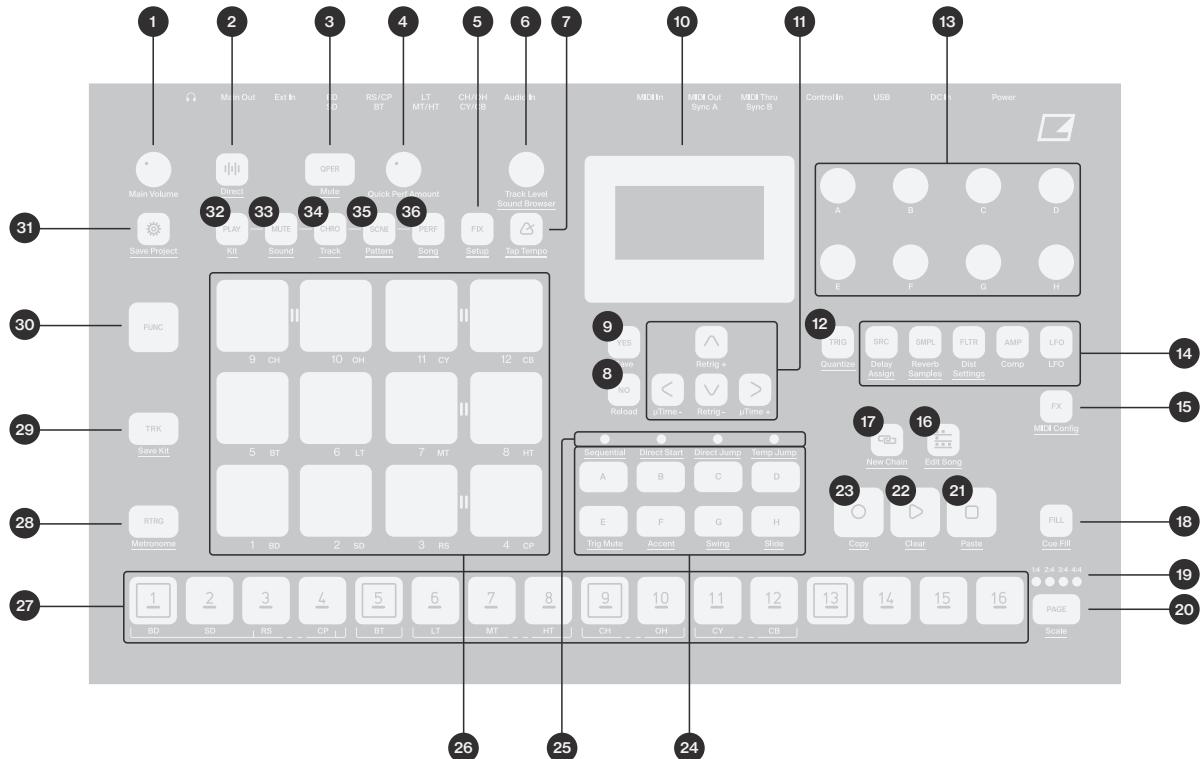
The Elektron Analog Rytm MKII truly adds its beat and power to the pulse of life. It is an eight voice analog/digital hybrid drum machine featuring the twang of the analog domain, the instant control, and effects of the digital domain and the wonderful interplay of both. The analog signal path, digital controls, samples, additive modulation and sampling capability, makes this drum machine a solid instrument with a voice of its own. The innovative combination of modern technology and tried and trusted ways of sound generation lets you create any kind of drum: purely analog, sample-based or a combination of the two. For all its layers of complexity and depth, it remains instantly accessible and - we are sure you agree - fun to play.

Whether the musical world you choose to inhabit is an ordered, harmonious and intelligible one or one of disharmony, chaos and earth-shattering noise, the Analog Rytm MKII will be your guide, companion, and rhythm-maker. It is our firm belief that you will have as much fun using the machine as we have had developing it. Enjoy.

The Elektron Team

3. PANEL LAYOUT AND CONNECTORS

3.1 FRONT PANEL



- MAIN VOLUME** sets the volume for the main outputs and the headphones output.
- [SAMPLING]** opens the SAMPLING menu, where you perform the sampling. The secondary function starts Direct Sampling.
- [QPER]** key. Used together with the **[PADS]** to select which performance macro that should be controlled by the **QUICK PERF AMOUNT** knob. The secondary function mutes the performance macros.
- QUICK PERF AMOUNT** sets the amount of the chosen performance macro.
- [FIX]** toggles the FIXED VELOCITY mode for the pads that set them to trigger with a fixed velocity. The secondary function opens the FIXED VELOCITY menu.
- TRACK LEVEL** sets the overall volume level of the active track. Also used for scrolling in menus and setting various parameter values. The secondary function opens the SOUND BROWSER.
- [TEMPO]** opens the TEMPO menu. Use **[FUNC] + [TEMPO]** to tap the tempo.
- [NO]** key. Used for exiting an active menu, backing one step and negating. If pressed in combination with keys 32-36 it instantly reloads the kit, Sound, track, pattern or song.
- [YES]** key. Used for entering sub-menus, selecting and confirming. If pressed in combination with keys 32-36 it instantly saves the kit, Sound, track, pattern or song.
- Screen.
- The **[ARROW]** keys. Used for navigation and for setting some parameter values. In menus, they are called **[UP]**, **[DOWN]**, **[LEFT]** and **[RIGHT]**.
- [TRIG]** key controls the TRIG settings for the active track. The secondary function opens the TRIGS SETUP menu.
- DATA ENTRY** knobs **A-H**. Used for setting parameter values. Press knob when turning to change values in larger increments.
- [PARAMETER]** keys access the PARAMETER pages of the active track. The **[PARAMETER]** keys indicate if the page is active (red) or inactive (off). The five parameter page keys are, from left to right:

SRC key accesses the SYNTH parameters of the track Sound. These control the drum synthesis. When the FX track is active, the DELAY parameter page is accessed. The secondary function opens the MACHINE selection menu.

SMPL key takes you to the SAMPLE pages. Various aspects of the sample playback are set on these pages. When the FX track is active, the REVERB parameter page is accessed. The secondary function opens the SAMPLE selection menu.

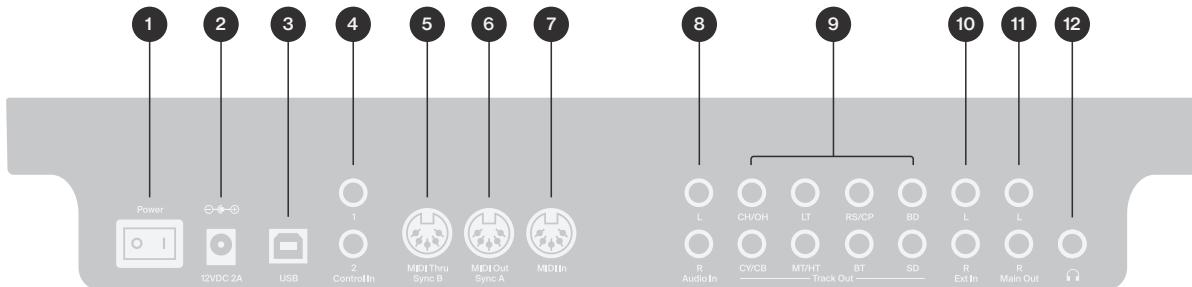
FLTR key accesses the FILTER page. The analog multimode filter parameters are set here. When the FX track is active, the DISTORTION parameter page is accessed. The secondary function opens the SOUND SETTINGS menu.

AMP key takes you to the AMP page, where the shape of the amplitude envelope is set. When the FX track is active, the COMPRESSOR parameter page is accessed.

LFO key accesses the LFO parameters for the active track.

15. **[FX]** selects the FX track. The secondary function opens the MIDI CONFIG menu.
16. **[SONG MODE]** activates/deactivates SONG mode. The secondary function is SONG edit.
17. **[CHAIN MODE]** activates/deactivates CHAIN mode. The secondary function initiates a new CHAIN.
18. **[FILL]** Activates FILL mode (when GRID RECORDING mode is not active). The secondary function cues the FILL mode.
19. <PATTERN PAGE> LEDs indicate how many pattern pages the active pattern consists of and which pattern page is currently active. The LED flashes on the pattern page that is currently playing.
20. **[PAGE]** selects the active pattern page, if the pattern has more than 16 steps. The secondary function opens the SCALE menu.
21. **[STOP]** stops playback. The secondary function is a paste operation.
22. **[PLAY]** starts the playback of the sequencer. Pressing **[PLAY]** a second time pauses playback. The secondary function is a clear operation.
23. **[RECORD]** key. Activates/deactivates GRID RECORDING mode. Press **[RECORD]** + **[PLAY]** to activate LIVE RECORDING mode. Press **[RECORD]** + **[STOP]** to activate STEP RECORDING mode. The secondary function is a copy operation.
24. **[BANK A-H]** selects between banks A-H.
25. <PATTERN MODE> LEDs indicate the currently selected PATTERN mode.
26. **[PADS]** have many possible functions depending on which mode is active and what each pad is set to do. The primary function is to play the track Sounds. Each drum track has a dedicated pad. <PADS> exhibits a variety of colors depending on what mode the Analog Rytm MKII is in and what the pads are used for.
27. **[TRIG]** keys are used for entering or removing sequencer trigs, in combination with the **[PADS]**, and parameter locks, in combination with the **DATA ENTRY** knobs. They are also used to select a pattern when one of the **[BANK]** keys are pressed.
28. **[RTRG]** key will if pressed in combination with one of the **[PADS]**, continuously retrig the Sound. It also lets you assign custom retrigs for each of the drum tracks on a side menu appearing on the screen whenever the key is pressed. The secondary function opens the CLICK TRACK menu.
29. **[TRK]** key. Press **[TRK]** + one of the **[PADS]** to select a drum track for editing or CHROMATIC play. Note that the FX track has a separate dedicated key. The secondary function saves the current kit.
30. **[FUNC]** key. Press and hold for accessing secondary functions for some of the other keys. Secondary functions are written in underlined text on the panel (blue text on grey devices).
31. **[GLOBAL SETTINGS]** opens the GLOBAL SETTINGS menu. The secondary function opens the SAVE PROJECT menu. A long press opens the LOAD PROJECT menu.
32. **[PLAY MODE]** activates the PLAY mode, in which the pads are used to play the current sound loaded to every pad. The secondary function opens the KIT menu.
33. **[MUTE]** activates the MUTE mode. The secondary function opens the SOUND menu.
34. **[CHRO]** activates the CHROMATIC mode, in which the pads are used to play the current track Sound chromatically across four octaves. The secondary function opens the TRACK menu.
35. **[SCNE]** activates the SCENE mode, in which a one-push instant change of an array of parameter settings is possible. The secondary function opens the PATTERN menu.
36. **[PERF]** activates PERFORMANCE mode. The secondary function opens the SONG menu.

3.2 REAR CONNECTORS



1. **POWER.** Turns the unit on and off.
2. **DC IN.** Use the included Elektron PSU-3c power adapter, connected to a power outlet.
3. **USB.** Use an A to B USB 2.0 connector cable to a computer host.
4. **EXP/CV IN CONTROL INPUT.** Input for expression pedal or CV. Use standard 1/4" mono phone plug for CV signals.
5. **MIDI THRU/SYNC B.** Forwards data from MIDI IN. Can also be configured to send DIN sync to legacy instruments. Use a standard MIDI cable to connect another MIDI device in the chain.
6. **MIDI OUT/SYNC A.** MIDI data output. Can also be configured to send DIN sync to legacy instruments. Use a standard MIDI cable to connect to MIDI In of an external MIDI device.
7. **MIDI IN.** MIDI data input. Use a standard MIDI cable to connect to MIDI Out of an external MIDI device.
8. **AUDIO IN L/R.** Inputs for sampling or sound card use. Use 1/4" mono phone plugs (balanced connection).
9. **TRACK OUT.** Individual drum voice outputs. Use either 1/4" mono phone plugs (unbalanced connection) or 1/4" (Tip/Ring/Sleeve) phone plugs (balanced connection).
10. **EXT IN L/R.** Use 1/4" mono phone plugs (unbalanced connection) to input sound from an external audio source.
11. **MAIN OUT L/R.** Use either 1/4" mono phone plugs (unbalanced connection) or 1/4" (Tip/Ring/Sleeve) phone plugs (balanced connection).
12. **HEADPHONES OUT.** Connect standard headphones with 1/4" stereo phone plug.

3.3 SETTING UP AND STARTING THE ANALOG RYTM MKII

Make sure you place the Analog Rytm MKII on a stable support, such as a sturdy table with sufficient cable space or mount on a rack capable of a 3 kg load.

Before you connect the Analog Rytm MKII to other equipment, make sure all units are switched off.

Plug the included PSU-3b adapter to a power outlet and insert the small plug into the Analog Rytm MKII DC IN connector.

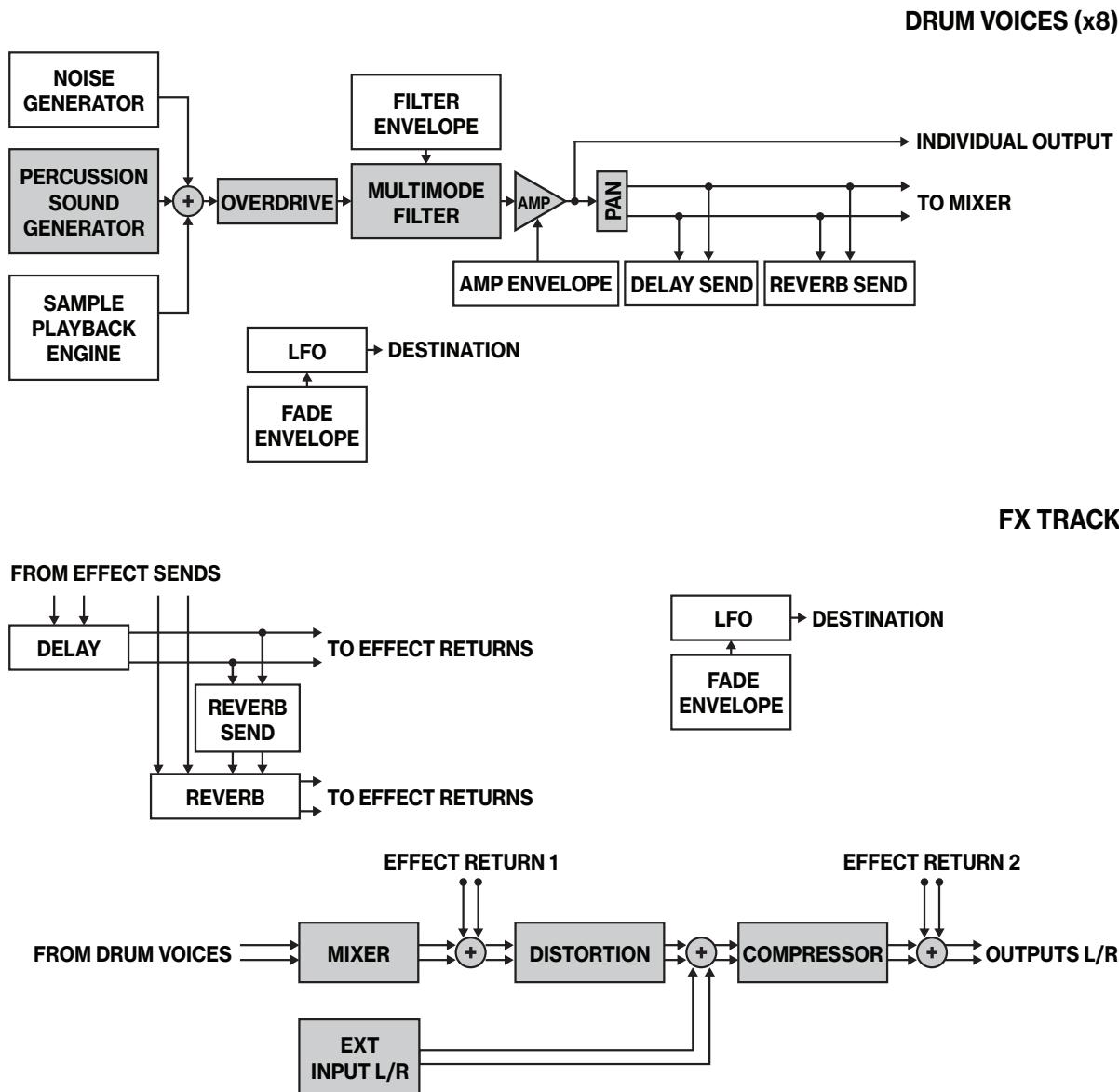
Connect the Main Out L/R from the Analog Rytm MKII to your mixer or amplifier.

If you want to use MIDI in conjunction with your Analog Rytm MKII, connect the MIDI OUT port of the device you wish to send data from to the MIDI IN port of the Analog Rytm MKII. The MIDI THRU port duplicates the data arriving at the MIDI IN port, and you can use it for chaining several MIDI units together.

Switch on all units. Switch on the Analog Rytm MKII by pressing the Power rocker switch located at the back of the unit. Wait 2 seconds after the screen goes out before restarting the unit.

4. ANALOG RYTM MKII SOUND ARCHITECTURE

The Analog Rytm MKII sound architecture, with its eight drum voices, two send effects (delay and reverb), and two master effects (distortion and compressor), is shown below. Analog elements are gray; digital elements are white.



4.1 VOICE CIRCUITS

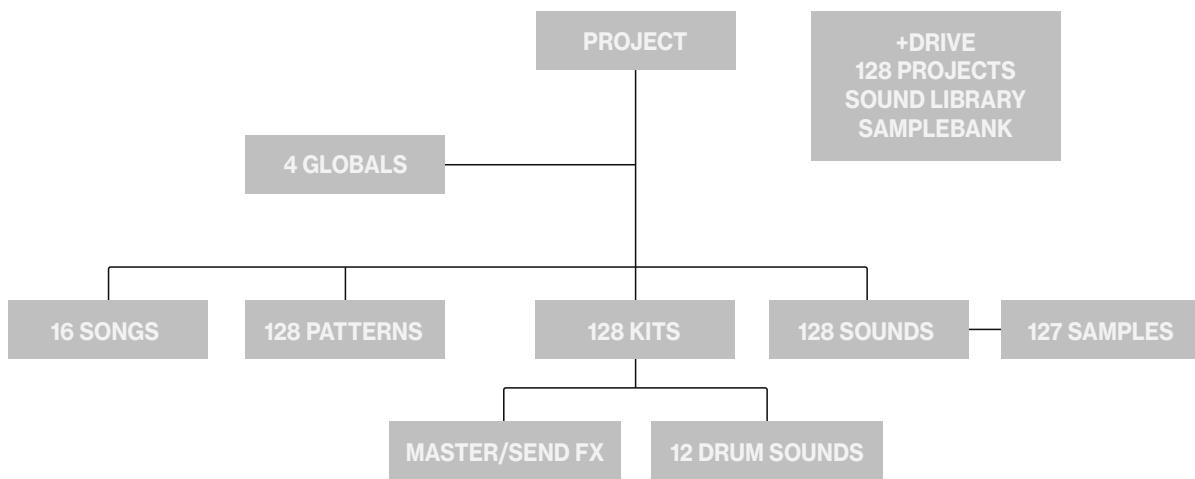
There are eight analog voice circuits. All voices have an identical sample playback engine, overdrive circuit, and multimode filter. The percussion sound generators are not identical. Each is designed to generate a specific class of analog drum sounds.

4.2 ABOUT MACHINES

There are several MACHINES available for each voice circuit. A MACHINE is a set of synthesis parameters that control a percussion sound generator to act like a certain drum model. Different MACHINES are software tailored to generate different kinds of bass drums, hi-hats, et cetera - and to provide the parameters most apt for each particular MACHINE. For more information, please see "8.2 MACHINES" on page 21.

5. OVERVIEW OF THE ANALOG RYTM MKII DATA STRUCTURE

The image below outlines the data structure of the Analog Rytm MKII.



5.1 +DRIVE

The +Drive is a non-volatile storage. It keeps up to 128 projects (thousands of patterns, kits and songs) stored internally. The +Drive also contains the +Drive Sound library, capable of storing 4096 drum Sounds, and the Sample bank. All projects have access to these Sounds and samples.

5.2 DATA STRUCTURE

5.2.1 PROJECT

A project contains 128 patterns, 128 kits, 16 songs, 4 global slots, 127 sample slots and a project Sound pool consisting of up to 128 Sounds. General settings and states are stored in the project. When a project is loaded it becomes the active working state of the Analog Rytm MKII. From here it is possible to edit the patterns, kits, songs, and globals of the project. Every time the Analog Rytm MKII is switched on, it boots to the active working state, the active project. Projects are saved, loaded and managed in the GLOBAL SETTINGS menu. Read more about projects in the section “9. PROJECTS” on page 24.

5.2.2 KITS

A kit is a collection of twelve drum track Sounds and the FX track parameter settings. When editing a track, changes made to the parameter settings is stored in the active kit. Each project of the Analog Rytm MKII contains 128 individual kits. A pattern always links to one of the kits. Read more in the section “10. KITS AND SOUNDS” on page 26.

5.2.3 SOUNDS

A Sound is a sample plus the parameter settings found in the PARAMETER pages SRC, SMPL, FLTR, AMP, and LFO. Sounds are stored in the Sound pool of the active project or the +Drive Sound library. The Sound pool has 128 Sound slots and the +Drive Sound library holds up to 4096 sounds. Read more in the section “10. KITS AND SOUNDS” on page 26.

5.2.4 SAMPLES

You can load up to 64 MB (about 11 minutes) of samples in a project, using a maximum of 127 sample slots. There are many preset samples to choose from in the +Drive Sample bank. Additional samples can be transferred to the Analog Rytm MKII from a computer with the Elektron Transfer software. You can also sample straight into the Analog Rytm MKII. See section “14. GLOBAL SETTINGS MENU” on page 58, and “13. SAMPLING” on page 56.

5.2.5 PATTERNS

For each of the 8 banks, 16 patterns are available, which means 128 patterns are always readily available for each project. A pattern contains sequencer data like drum trigs, trig mutes and parameter locks for the drum tracks and the FX track, as well as default settings on the TRIG page and length, swing, and time signature settings. Read more in the section “11. THE SEQUENCER” on page 37.

5.2.6 SONGS

16 songs are available for each project. They are used to sequence the playback of patterns. Songs are built of patterns and chains. Read more about songs in the section “12.2 SONGS” on page 53.

5.2.7 GLOBALS

The GLOBAL settings contain overarching settings for the sequencer, MIDI, and global track routing. Four global slots are available for each project, each with its specific settings. Read more about the global settings in the section “14. GLOBAL SETTINGS MENU” on page 58.

5.3 ABOUT THE TRACKS

5.3.1 THE DRUM TRACKS

There are 12 drum tracks. To select a track for editing, press and hold [TRK] key and then press one of the [PADS]. Each drum track uses a specific drum voice controlled by one of the MACHINES available for the voice. All drum tracks can layer analog percussion sounds and sampled sounds, to distort and filter them, and apply a dedicated LFO each.

5.3.2 THE FX TRACK

The FX track controls the Analog Rytm MKII send effects DELAY and REVERB, as well as the DISTORTION and COMPRESSOR master effects. One LFO is also available for this track. To select the FX track for editing, press the [FX] key.

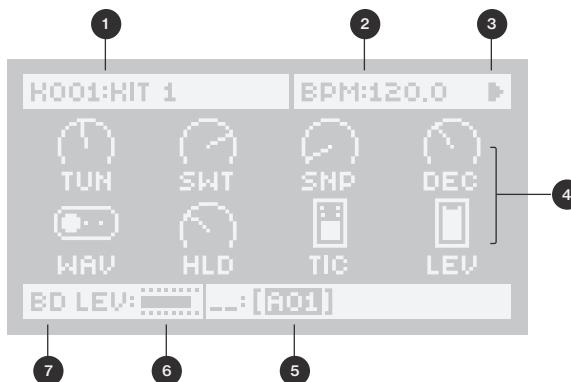
5.3.3 EDITING THE TRACKS

The five [PARAMETER] keys open parameter pages that are used for editing the tracks. The SRC page of a drum track contains different parameters depending on the MACHINE chosen for the analog percussion sound generator. The other pages are identical for all drum tracks; the SMPL page for the sample playback engine, the FLTR page for the multimode filter and its filter envelope, the AMP page for the amplitude envelope and effect sends, and the LFO page for the low-frequency oscillator. The corresponding five parameter pages for the FX track controls the four effects and the FX LFO. Edit parameters using the **DATA ENTRY** knobs A-H. Press and turn a knob to adjust its parameter in larger increments.

6. INTERACTING WITH THE ANALOG RYTM MKII

6.1 THE SCREEN

The screen is the center of Analog Rytm MKII editing.



1. The active kit. Here you can also see the full name of the parameter you adjust here when you turn a **DATA ENTRY** knob.
2. Tempo.
3. The playback/recording status of the sequencer shown by “record”, “play”, “pause” and “stop” symbols; and .
4. Track parameters. They show what the **DATA ENTRY** knobs control and their current parameter values
5. The active pattern. To the left of this, you can see the active song row. A “_:_” indicates that the scratch pad row is active.
6. Track level.
7. Track name.

6.1.1 SCREEN NAVIGATION

When entering a menu or sub-menu, navigation is done using the [ARROW] keys [UP], [DOWN], [LEFT] or [RIGHT]. The **TRACK LEVEL** knob can be used to quickly scroll through menus and lists.

[YES] is used to affirm, select, enter sub-menus and tick/untick boxes.

[NO] is used to negate, deselect or go back one or more steps.



When on a menu or sub-menu the [NO] key can be used to go back, one step at a time, all the way to the main screen.

6.2 PARAMETER EDITING

The **DATA ENTRY** knobs are used to change the value of the track parameters. The position of the parameters on the screen correspond to the physical location of the knobs on the front panel. Press and hold a **[PARAMETER]** key to see the values for all parameters on that PARAMETER page.

6.2.1 QUICK PARAMETER EDITING

If the **DATA ENTRY** knob is pressed when it is turned, the parameters will be adjusted in larger increments. You can quickly sweep through a whole parameter range in this manner.

6.2.2 PARAMETER VALUE JUMP

Pressing **[FUNC]** while editing certain parameters makes the parameter values jump to appropriate positions. The time of the Delay, for example, jumps between 16, 32, 64 and 128 and the oscillator tuning jumps whole octaves.

6.2.3 [FUNC] KEY PRESS COMBINATIONS

The standard way to use the **[FUNC]** key in combination with other keys, is to press and hold **[FUNC]** and then make a short press on the second key in the combination. For some key combinations, it is also possible to access a sub-menu by pressing and holding **[FUNC]** + second key for a second.

6.3 QUICK SCROLLING

Scroll through menus using the **TRACK LEVEL** knob. Quick scrolling is possible on many menus. Press **[FUNC]** + the **[UP]** or **[DOWN]** arrow keys to move the cursor one menu page at a time.

6.4 COPY, CLEAR AND PASTE

Copy, clear and paste commands are available in many contexts. Press **[FUNC]** + **[RECORD]** to perform a copy operation. Press **[FUNC]** + **[STOP]** to perform a paste operation. Press **[FUNC]** + **[PLAY]** to perform a clear operation. Paste and clear operations are undone by repeating the key press combination. Please see the different sections in the manual for more information on when these commands are applicable.

6.5 THE NAMING SCREEN

The naming method is identical for the various naming situations that appear when kits, Sounds, songs, projects et cetera are saved or renamed. This screen is also used for text searches.



The **[LEFT]** and **[RIGHT]** arrow keys are used to navigate between the characters. Turning the **TRACK LEVEL** knob or pressing the **[UP]** or **[DOWN]** arrow keys cycles between the characters. **[FUNC]** + **[NO]** erases letters. To create a random name, press **[GLOBAL SETTINGS]**.

6.5.1 POP-UP NAMING

A convenient way of naming is to open a pop-up menu that shows all available letters, symbols, and digits. When on the NAMING screen, press the **[FUNC]** key.

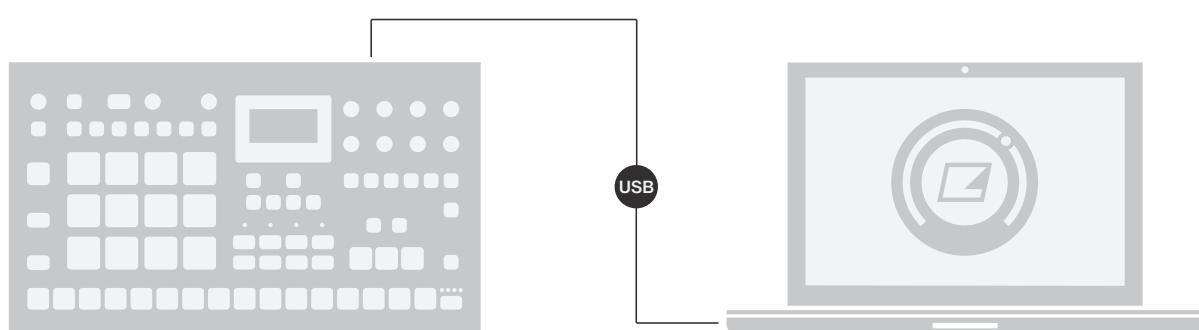


Keep **[FUNC]** pressed, and then use the **[ARROW]** keys to highlight the character you want to insert. Once there, release **[FUNC]** to insert the character.



Copy, paste, and clear commands are available on the naming screen.

6.6 OVERBRIDGE



6. INTERACTING WITH THE ANALOG RYTM MKII

The Overbridge software suite enables a tight integration between the Analog Rytm MKII and a computer DAW software.

When using Overbridge, the user interface for the Analog Rytm MKII presents itself as a clearly laid out plug-in window in your DAW. Access, edit and automate parameters for sound shaping on screen. Always find your device preset parameters in the same state as you left them when you return to your DAW project, with the useful total recall functionality.

Read more about Overbridge use and availability on the Elektron website.

6.7 CLASS COMPLIANT DEVICE

The Analog Rytm MKII is a class compliant device (also known as plug-and-play). It means it does not require any extra drivers to connect to your computer or other USB class compliant hosts.

The Analog Rytm MKII can, therefore, stream audio and MIDI directly over USB to and from supported computers/phones/tablets. It opens up several exciting possibilities of what you can do with your device, for example, record audio from your device directly over USB in your DAW. For more information, please see "14.8.2 USB CONFIG" on page 68 and "14.6 AUDIO ROUTING" on page 65.

6.8. BACKING UP THE ANALOG RYTM MKII

It is always recommended to make regular backups of your data. Backups are also a convenient way to share your projects, Sounds, and samples with other users. To make backups and transfer files to and from your Elektron device, you should use Transfer, a free application that you can download from the Elektron site <https://www.elektron.se/support>. The application is available for both Windows and macOS.

6.8.1 BACKING UP PROJECTS, SOUNDS, AND SAMPLES

You can backup up your projects, sounds, and samples from your Elektron device to a computer. Here is the general procedure for how to back up your device:

1. Connect the Elektron device to the computer via USB.
2. Open the Transfer application on your computer, and then select the USB MIDI port(s) for your device on the CONNECTION page, and then click "CONNECT" next to your device under AVAILABLE DEVICES.
3. In Transfer, click the EXPLORE tab to open the EXPLORE page.
4. On the EXPLORE page top left side of the drop-down menu, make sure "MY COMPUTER" is selected.
5. On the top right side, in the drop-down menu, select the type of file you want to transfer.
6. In the window on the right, navigate to the files or folders you want to transfer
7. Drag and drop the files or folders to your preferred location under "MY COMPUTER."

6.8.2 TRANSFERRING BACKED UP FILES TO YOUR ELEKTRON DEVICE

Use the EXPLORE page in Transfer to transfer previously backed up files to your Elektron device from a computer.

1. Connect the Elektron device to the computer via USB.
2. Open the Transfer application on your computer and then select the USB MIDI port(s) for your device on the Transfer CONNECTION page. Click "CONNECT" next to your device under AVAILABLE DEVICES.
3. In Transfer, click the EXPLORE tab to open the EXPLORE page.
4. On the top right side, in the drop-down menu, select the type of file you want to transfer.
5. On the top left side in the drop-down menu, make sure "MY COMPUTER" is selected.
6. Under "MY COMPUTER," navigate to the files or folders you want to transfer.
7. Drag and drop the files or folders to your preferred location on your device.
8. Depending on what file type you send, you might encounter pop-up windows asking you to decide what files you want to send and how you want to organize them.

7. QUICK START

This quick start guides you through some of the basic operations to start using the Analog Rytm MKII right away. First, connect it as described in section “3.3 SETTING UP AND STARTING THE ANALOG RYTM MKII” on page 12.

7.1 PLAYING THE FACTORY PRESETS

You find several preset patterns, kits, and Sounds in the Analog Rytm MKII. Follow the instructions below to get started exploring your new instrument.

1. Press **[PLAY]** to listen to pattern A01.
2. Press **[BANK A] + [TRIG 2]** to select pattern A02, which is the second demo pattern. Pattern A02 starts to play when pattern A01 reaches its end. Press **[BANK A] + [TRIG 3]** to select pattern A03 and so on.
3. Press **[MUTE]** + the **[PAD]** of the drum track you want to mute. Unmute by repeating the procedure.
4. Press **[STOP]** to stop playback.

7.1.1 PERFORMANCE MODE

The PERFORMANCE mode enables each one of the twelve pads to control several PARAMETER page parameters at once. Change many dimensions of one or more drum track Sounds at the touch of a single pad. A set of such parameter locks is called a performance macro, shown with dim green **<PADS>**. Try out the preset macros:

1. Make sure a pattern is playing.
2. Press the **[PERF]** key to enter PERFORMANCE mode.
3. Press the dim green **[PADS]**. Apply different pressures and hear how the sound of the pattern changes.

7.1.2 SCENE MODE

The SCENE mode turns the twelve pads into instant sound shifters. Similar to a performance macro, several parameters from any track can be changed by pressing a single pad. A scene is a fixed set of parameter values, ready to be activated or deactivated, shown with dim blue **<PADS>**. Try out the preset scenes by following the instructions below. A bright blue color pad shows the active scene.

1. Make sure a pattern is playing.
2. Press the **[SCNE]** key to enter SCENE mode.
3. Tap one of the dim blue color **[PADS]** to activate a scene. Tap again to deactivate.

7.1.3 CHROMATIC MODE

Any track Sound may be played chromatically using the 12 pads. The chromatic note pitch is increased linearly for each successive pad pressed: left to right, bottom to top. Twelve successive pads make one octave. The range spans four octaves, middle, one up and two down. The middle octave has sky blue color **<PADS>**, the two below are of violet and dark blue color, in that order, and the one above is yellow. For more information, please see “11.5 TRACK MENU” on page 42.

1. Select the drum track to play chromatically by pressing **[TRK]** + one of the **[PADS]**.
2. Press the **[CHRO]** key to enter CHROMATIC mode.
3. Play the **[PADS]**. The active track Sound will be pitched differently for each of the 12 pads comprising the middle octave. Reach higher or lower octaves, one row at a time, by pressing **[ARROW]** keys **[UP]** or **[DOWN]**, respectively.

7.1.4 MUTE MODE

You can mute the sequencer of any of the twelve drum tracks in this mode. Unlike the CHROMATIC mode, it makes no difference which track is active when this mode is activated. All tracks are accessed simultaneously.

1. Make sure a pattern is playing.
2. Press the **[MUTE]** key to enter MUTE mode.
3. Press the **[PADS]** to mute the corresponding track. Press again to unmute. The pad color **<PADS>** indicates the mute status. Unlit **<PADS>** shows muted tracks. Green **<PADS>** shows audible tracks.
4. Press and hold **[FUNC]** and then any of the **[PADS]** to preselect a mute, or mute/unmute several tracks in one go. Once you release **[FUNC]**, the selected mutes come into effect. Blue colored **<PADS>** show the preselected mutes.



When MUTE mode is active, press [RTRG] and one of the [PADS] if you wish to activate solo, in other words, mute all tracks except the one selected. Press again to deactivate solo. Keeping [RTRG] pressed, multiple tracks may be solo activated/deactivated. Solo activated <PADS> are of turquoise color.

7.1.5 TEMPO

Press the [TEMPO] key to open the TEMPO screen where you can set the overall BPM speed.

Use the **TRACK LEVEL** knob to change tempo in steps of one BPM. Pressing the knob while turning it changes the tempo eight steps at a time. The [ARROW] keys [UP] or [DOWN] change the tempo steps of 0.1 BPM.



Note that you can choose between a project tempo (same tempo for all the patterns in a project) or use a separate tempo for every pattern. Press [FUNC] + [YES] to switch between PROJECT and PATTERN tempo mode.

To tap a tempo setting, press and hold the [FUNCTION] key and tap the [TEMPO] key in a steady rhythm. The average tempo of the taps calculates after four consecutive taps. For more information, please see “11.1.4 TEMPO” on page 38.

7.1.6 EDITING PARAMETERS

Each drum track has five PARAMETER pages, accessed by pressing the [SRC], [SMPL], [FLTR], [AMP], and [LFO] keys. The parameters found here affect the sound in various ways. When the FX track is active, the corresponding PARAMETER pages are DELAY, REVERB, DISTORTION, COMPRESSOR, and LFO, accessed by the same keys.

1. Make sure a pattern is playing.
2. Press [TRK] + [PAD] 1-12 to select one of the twelve drum tracks.
3. To change, for example, the cutoff of the filter, press the **FILTER** key. The display then shows the FILTER page. The parameter labeled FRQ changes the cutoff of the filter. Turn **DATA ENTRY** knob E to change the parameter value, and hear how the Sound is affected.

Try out the rest of the PARAMETER page parameters to explore a variety of sound shaping possibilities.

To reload the parameters on a specific parameter page to their last saved state, press [PARAMETER] key + [NO].

To reload the parameters on all of the FX track’s parameter pages to their last saved state, press [FX] key + [NO].

To reload the Sound to its original state, press [NO] + [MUTE].

To reload the whole kit to its original state, press [NO] + [PLAY MODE].

To save kit changes, press [YES] + [PLAY MODE].

7.1.7 CREATING A PATTERN

In this example, we will use the GRID RECORDING mode to create a pattern. For more information, please see “11.3.2 GRID RECORDING MODE” on page 39.

1. Press [BANK A-H] and then [TRIG 1-16] to select an empty pattern. Pattern A01 to B16 are by default used by factory preset content.
2. Press [RECORD] to enter GRID RECORDING mode. The [RECORD] key lights up red to indicate that GRID RECORDING mode is active.
3. Press [TRK] + [PAD] 1-12 to select one of the twelve drum tracks to which you want to add trigs.
4. Place note trigs on the sequencer using the sixteen [TRIG] keys. Press the [TRIG] key of any of the trigs previously entered to remove that trig.
5. Select another track and place note trigs. Repeat this for all the tracks you want to use in the pattern.
6. Press [PLAY] to listen to the pattern you created.



EXAMPLE PATTERN

On track 1 (kick), place trigs on steps 1, 5, 9, and 13.

On track 2 (snare), place trigs on steps 5 and 13.

On track 9 (hihat), place trigs on steps 3, 7, 11, and 15.

8. ANALOG RYTM MKII CONTROLS

The Analog Rytm MKII is played using the [PADS]. The responsive, velocity and pressure sensitive pads can be assigned to perform many possible functions. The <PADS> can display a variety of colors. There are a variety of modes: PLAY mode, MUTE mode, CHROMATIC mode, SCENE mode and PERFORMANCE mode.

8.1 PADS

The 12 pads dominate the left half of the Analog Rytm MKII front panel. The finger-sized pads are made of sturdy synthetic rubber and respond to pressure. Tapping a pad triggers its track sound. **BD** triggers the bass drum, **SD** the snare drum and so on. The illustration outlines and briefly describes the analog percussion sound generators. See the twelve tracks and their MACHINES below.



PAD	MACHINES
1. BD (Bass Drum)	BD HARD, BD CLASSIC, BD FM, BD PLASTIC, BD SILKY, BD SHARP, BD ACOUSTIC, SY DUAL VCO, SY CHIP, SY RAW + all SD machines
2. SD (Snare Drum)	SD HARD, SD CLASSIC, SD FM, SD NATURAL, SD ACOUSTIC, SY DUAL VCO, SY CHIP, SY RAW + all BD machines
3. RS (Rim Shot)	RS HARD, RS CLASSIC, SY DUAL VCO, SY CHIP, SY RAW + all BD, SD, and CP machines
4. CP (Hand Clap)	CP CLASSIC, SY DUAL VCO, SY CHIP, SY RAW + all BD, SD, and RS machines
5. BT (Bass Tom)	BT CLASSIC
6. LT (Low Tom)	XT CLASSIC
7. MT (Mid Tom)	XT CLASSIC
8. HT (Hi Tom)	XT CLASSIC
9. CH (Closed Hihat)	CH CLASSIC, CH METALLIC, HH BASIC, HH LAB + all OH machines
10. OH (Open Hihat)	OH CLASSIC, OH METALLIC, HH BASIC, HH LAB, + all CH machines
11. CY (Cymbal)	CY CLASSIC, CY METALLIC, CY RIDE + all CB machines
12. CB (Cow Bell)	CB CLASSIC, CB METALLIC + all CY machines
GENERAL MACHINES: UT NOISE, UT IMPULSE.	

Play the track Sounds of the active kit using the [PADS]. 8 individual track Sounds can be voiced simultaneously with the eight physical voices of the Analog Rytm MKII. The **BD**, **SD**, **BT**, and **LT** are independent tracks with their separate voices. Tracks **RS-CP**, **MT-HT**, **CH-OH** and **CY-CB**, each pair is shown with a coupling on the front panel of the Analog Rytm MKII, share a voice. If you play or trigger both tracks of a coupled pair, the right-hand track has a higher priority. Track **CP** mutes track **RS**, **HT** mutes **MT**, **OH** mutes **CH** and **CB** mutes **CY**. You can also play the drum tracks using [TRIG] keys 1-12. The color of the <PADS> shows pad activity. A pad flashes white briefly when engaged, whether it is played manually or by the Analog Rytm MKII sequencer. A red color pad shows the active drum track.

8.2 MACHINES

Select a drum track MACHINE by quickly pressing the [SRC] key twice or press [FUNC] + [SRC]. A MACHINE makes use of the physical percussion sound generator of the voice circuit in a certain way, to make a characteristic drum model.

8. ANALOG RYTM MKII CONTROLS

For example, the **BD** track uses the sound generator of the first voice circuit. Its default BDHD MACHINE includes one tunable analog oscillator, a choice of three different waveforms and a custom envelope to shape the sound. These MACHINE-specific synthesis parameters are on the SRC parameter page. If you select another MACHINE, it engages the sound generator differently - employing more than one oscillator, for example - enabling the **BD** track to perform frequency modulation and many other sound generating techniques.

All MACHINES cannot be accessed from all tracks since the tracks control different physical sound generators. The illustration above shows the tracks that can make use of a specific type of percussion sound generator within the boundaries of the same gray-shaded box. For a more comprehensive list of MACHINES, the tracks that can use them and the specific SRC page parameters they give access to, please see "APPENDIX D: MACHINES" on page 96.

8.3 ROTARY ENCODERS

The eight **DATA ENTRY** knobs, the **TRACK LEVEL**, the **QUICK PERF AMOUNT** knob, and the **MAIN VOLUME** knob are made of sturdy two-component plastic with a shape designed to fit snugly between thumb and forefinger, and a rubbery surface to prevent slipping. The **MAIN VOLUME** and **QUICK PERF AMOUNT** are absolute encoders, spanning roughly 320 degrees from left extreme to right extreme. A small white dot on its top surface shows the encoders position. The **TRACK LEVEL** and **DATA ENTRY** knobs (with which you set various parameter values for the active kit) are relative encoders that can be rotated any number of turns. Pressing and turning these encoders changes their associated values at a higher speed.

8.4 PRAGMATIC OPERATION

The functional layout of the Analog Rytm MKII front panel ensures many complex operations can be done using only one hand, leaving the other hand free to tweak sounds. With all mode and track keys near each other, one-handed track muting, chromatic play, scene change, and performance macro deployment are possible. As is one-handed retrigging, tempo tapping, pattern mode change, and pattern selection.

8.5 KEY BEHAVIOR

As a group, the track selection keys ([**TRK**] + any of the [**PADS**] and the [**FX**] key) have radio button functionality, i.e., when a new track is set to be active, the previous one is simultaneously deactivated (one and only one track must always be selected). Likewise, the group that consists of the five [**PARAMETER**] keys and the [**TRIG**] key has radio button functionality.

The mode keys [**PLAY MODE**], [**MUTE**], [**CHRO**], [**SCNE**] and [**PERF**] keys have both on/off and radio button functionality (which means they can all be switched off, but only one of them can be on at the same time). This behavior goes for the [**SONG MODE**] and [**CHAIN MODE**] keys as well.

The [**TRK**], [**FUNC**] and [**RTRG**] keys must be pressed in combination with other keys to exert functionality.

8.6 MIDI NOTES

Some functions can be triggered by sending MIDI note values from an external MIDI device (a MIDI keyboard or a computer, for example) connected to the Analog Rytm MKII via standard MIDI cable or a USB 2.0 A to B connector cable.

Of the 128 notes in the standard MIDI range, 0–11 corresponds to notes C0 through to B0, the leftmost octave (which is sometimes called C-2-B-2 in certain applications) will trigger the Sound of track 1 through to track 12, respectively (provided they are set to their default channels 1–12). These note values map to each of the twelve tracks, regardless of which track is active. For more information, please see "APPENDIX C: MIDI" on page 85.

MIDI note values 12–59 (corresponding to notes C1–B4, the second through to the fifth octave in the MIDI range) will trigger the Sound of the active track in any of its 48 chromatic variations (as if played by the pads in CHROMATIC mode, see section below), from lowest to highest pitch. The track Sound must be enabled for chromatic play if any variation is to be heard. Activate via the SOUND SETTINGS. For more information, please see "10.5.2 SOUND MANAGER" on page 32.

MIDI program change messages 0–127 selects pattern 1–128 (A01–H16) on the Analog Rytm MKII. Additionally, MIDI CC and NRPN messages can be sent to control various aspects of the Analog Rytm MKII. See "APPENDIX C: MIDI" on page 85 for a complete specification.

8.7 MODE KEYS

There are five main keys with which you select the mode of operation on the Analog Rytm MKII: [**PLAY MODE**], [**MUTE**], [**CHRO**], [**SCNE**] and [**PERF**].

8.7.1 PLAY MODE

To activate the PLAY MODE mode, press the [PLAY MODE] key. In PLAY MODE the pads are used to play the drum Sounds that is loaded to their corresponding track.

8.7.2 MUTE MODE

To activate the MUTE mode, press the [MUTE] key. You can mute the sequencer of any of the twelve drum tracks in this mode. Press any of the [PADS] to mute the corresponding track. Press again to unmute. The color of the <PADS> indicates the mute status. Muted tracks <PADS> are unlit. Audible track pads <PADS> are green.

Press and hold [FUNC] and then any of the [PADS] to preselect a mute, or mute/unmute several tracks in one go. Once you release [FUNC], the selected mutes come into effect. Blue color <PADS>. show preselected mutes

Press [RTRG] and one of the [PADS] if you wish to activate solo, in other words, mute all tracks except the one selected. Press again to deactivate solo. Keeping [RTRG] pressed, multiple tracks may be solo activated/deactivated. Solo activated <PADS> are turquoise.

The tracks you have muted in this mode stay muted even if you change the pattern or load a new kit. After exiting MUTE mode, the [MUTE] key stays lit, half-bright white (red on grey devices) if any of the tracks are muted. The MUTE mode is a part of the active state of the machine. It is not stored to the current kit or pattern. Mutes activated in MUTE mode are the master mutes, and they override any TRIG MUTE patterns on the sequencer or any SONG MUTE program on any pattern of the active song.

8.7.3 CHROMATIC MODE

Pressing the [CHRO] key turns the [PADS] of the Analog Rytm MKII into a chromatic keyboard. When in this mode, you can play the Sound of the active track chromatically.

Any track Sound may be played in this mode using the 12 pads. The chromatic note pitch is linearly increased for each successive pad pressed: left to right, bottom to top. Twelve pads in succession make up one octave (With CHROMATIC scale selected). The range spans four octaves, middle, 1 up and 2 down. The middle octave has blue color <PADS>, the two below are of violet and dark blue color, in that order, and the one above is yellow. Reach higher or lower octaves, one row at a time, by pressing the [ARROW] keys [UP] or [DOWN], respectively.

You also have the possibility to set the in which scale the pads should play. For more information, please see "11.5 TRACK MENU" on page 42

The Synth part, the Sample part or both at once of any Sound may be chromatic enabled. This is done in the SOUND SETTINGS. For more information, please see "10.5.2 SOUND MANAGER" on page 32.

Notes triggered chromatically can be recorded on the sequencer. Find out how this is done in sections "11.3.2 GRID RECORDING MODE" on page 39 and "11.3.3 LIVE RECORDING MODE" on page 40.

Like the MUTE mode, the active state of the CHROMATIC mode (the portion of the chromatic keyboard currently visible on the pads) is not stored per kit or pattern but stays in its set state until it is changed.

8.7.4 SCENE MODE

The SCENE mode turns the twelve pads into instant sound shifters. Press a single pad to change several parameters from any track. A scene is a fixed set of parameter values, ready to be activated or deactivated. To activate the SCENE mode, press the [SCNE] key.

By carefully assigning a set of parameter values, you can prepare a scene that makes the same kit sound drastically (or subtly) different whenever activated. After exiting SCENE mode, the [SCNE] key stays lit, half-bright white (red on grey devices) if any of the scenes are active. Unlike the MUTE or CHROMATIC mode, SCENE mode settings are stored in the active kit. See "10.3 SCENE MODE" on page 28.

8.7.5 PERFORMANCE MODE

Press the [PERF] key to enter PERFORMANCE mode. This mode enables the [PADS] to control several PARAMETER page parameters at once. Change many dimensions of one or more drum track Sounds at the touch of a single pad. A pad in this mode, prepared with one or many additive layers of parameter modulation, is called a performance macro. While setting up a performance macro is done in a similar way as setting up a scene, there is a major difference in the way these two modes operate. A scene is a static, ON/OFF command of an array of parameters set to specific values. A performance macro engages the assigned parameters dynamically. When using a performance macro, the parameters are modulated relative to the pressure applied to the pad. Green color <PADS> contains a performance macro.

PERFORMANCE mode settings are stored as part of a kit. For more information, please see "10.4 PERFORMANCE MODE" on page 29.

9. PROJECTS

A project is the top level of the Analog Rytm MKII workflow. A project contains 128 patterns, 128 kits, and 16 songs, 4 global slots, and a project Sound pool consisting of up to 128 Sounds. Projects are handy when, for example, you want to save a specific setup for a live performance or when managing a select number of compositions. The +Drive can store 128 projects.

When a project is loaded it becomes the active working state of Analog Rytm MKII, independent of the +Drive. Analog Rytm MKII keeps track of what project slot the active project was loaded from. It is possible to edit the patterns, kits, songs, and globals of a loaded project.

Within an active project, all changes made are automatically remembered by the Analog Rytm MKII, letting you switch back and forth between patterns and kits and edit the patterns, kits, and parameters in any order you like without the need to save each adjustment manually. Patterns, the active kit Sounds, and settings, songs and globals are remembered even after the power is turned off. However, regarding kits (the main entity for editing and collectively storing a complete set of Sounds and effects), when the Analog Rytm MKII is switched off, only the settings of the active kit are preserved. If for example, the kit linked to pattern 1 is edited (kit A), another pattern is selected and its kit edited (kit B) and then the power is turned off, only the changes to kit B (the most recent active kit) will be remembered. We highly recommend that you specifically save the kits you have been working on manually using the quick command **[YES] + [PLAY MODE]**. Find out more about kits in the section “**10. KITS AND SOUNDS**” on page 26.

Project changes are not automatically written to the +Drive. To store the active working state of the project to a +Drive slot, the project needs to be saved manually. See below on how to load and save projects.

9.1 PROJECT MENU

Projects are managed in the **PROJECT** menu, located in the **GLOBAL SETTINGS** menu. Open the **GLOBAL SETTINGS** menu by pressing **[GLOBAL SETTINGS]**.



Scroll through the list by using **[UP]/[DOWN]** or the **TRACK LEVEL** knob and select **PROJECT**. Open the menu by pressing **[YES]**.



LOAD PROJECT opens a project selection screen where you choose a project to be loaded. Note that the active project will not be saved before loading the new project. This menu can be accessed directly by pressing and holding **[GLOBAL SETTINGS]** for a little while. If you wish to create a new project, select **CREATE NEW** at the very bottom of the list. The new project will be a blank slate.



SAVE PROJECT AS opens a project selection screen where you choose a slot to save the active project to. This menu can be accessed directly by pressing [FUNC] + [GLOBAL SETTINGS].

001	PRESETS
002	ALPHA
003	HERE BE DRAGONS
004	BEATNIK
005	TINKER 2017
006	
007	
008	

MANAGE PROJECTS launches the PROJECT MANAGER menu. Selecting a project in this menu and pressing the [RIGHT] arrow key brings up a list of commands.

001	PRESETS	CLEAR
002	BEFORELO	DELETE
003	KITTY	RENAME
004	HEREHEGO	LOAD FROM
005	PRESS PL	SAVE TO
006	HARDWARE	TOGGLE ↗
007	PERFECT	PURGE ALL
008		

CLEAR resets the project slot to a clean state.

DELETE removes the project from the slot.

RENAME opens a screen where you can rename the project file.

LOAD FROM loads the selected project. This overwrites the active project!

SAVE TO saves the active project to the selected slot.

TOGGLE toggles write protection on and off. Write-protected projects cannot be overwritten, renamed or erased. A write-protected project is shown with a padlock symbol.

INIT NEW initializes an empty file slot with a clean project. This option is only available for empty project slots.

PURGE ALL purges (removes) all Sounds from the Sound pool and all samples that are not used in any pattern in the project from the RAM memory. The Sounds and samples are not removed from the +Drive Sound library. This option is only available when you select the currently loaded project.



- Multiple projects can be selected and deselected by highlighting them and pressing [YES].
- The currently active project is linked to the slot shown with a small arrow in front of the project name.
- A lock symbol indicates the project is write protected.
- Projects can be copied/cleared/pasted.



LOAD FROM in the PROJECT MANAGER overwrites the active project. Be sure to save your project before you load another.

10. KITS AND SOUNDS

Every project has the capacity of 128 different kits. A kit is a collection of 12 drum track Sounds and an FX track and their specific parameter settings. A Sound is composed of synth, sample, filter, effect sends, envelope and LFO settings in any combination. Sounds are assigned to the twelve drum tracks.

Each of the drum tracks contains one Sound. The PARAMETER page settings for each track in a kit can be saved as an individual Sound if so desired. A Sound that has been loaded, from the +Drive or the Sound Pool to a track, becomes a part of the active kit. Any changes made to a track Sound do not affect the stored Sound. It affects and become part of the active kit. A pattern, controlling the playback of the kit, always links to a specific kit (non-exclusively). Any changes to the kit affect other patterns using the same kit. When the Analog Rytm MKII is switched off, only the active kit preserves its changes. Other kits must be saved.

A Kit contains:

- Sound parameter settings for the 12 drum tracks.
- FX track parameter settings.
- LEVEL settings for the drum and FX tracks.
- RETRIG settings.
- General SOUND SETTINGS.
- PERFORMANCE and SCENE mode macros and parameter settings.

A Sound contains:

- Settings for the PARAMETER pages of a drum track.



- The graphics in the top left part of the screen shows the name of the active kit. When you press a [TRK] key and one of the [PADS], this information briefly changes to show the name of the track Sound.
- When you create a brand new pattern, using an existing kit that is already linked to another pattern, we recommend that you save and rename the kit, the first thing you do (see below). Unless, of course, you intend kit changes to affect multiple patterns.

10.1 THE +DRIVE SOUND LIBRARY AND THE SOUND POOL

Sounds can be loaded to a kit from either the +Drive Sound library or the Sound pool of the active project. The +Drive Sound library has the capacity of 4096 Sounds, available to all projects. The Sound pool is a part of a project and can contain up to 128 Sounds. The major benefit of Sounds loaded to the Sound pool is the possibility for them to be Sound locked. This feature is not available for the Sounds in the +Drive Sound library. Read more about Sound locking in the section “11.12.2 SOUND LOCKS” on page 48.

10.2 KIT MENU

In the KIT menu, commands relating to kits are found, including kit save and kit load. Open the menu by pressing [FUNC] + [PLAY MODE]. Use the [UP] and [DOWN] arrow keys to move between the commands. Press [YES] to confirm your selection. Exit the menu by pressing [NO].



10.2.1 RELOAD KIT

Reloads either the active kit, reverting it to its saved status or all kits. Using the [LEFT] and [RIGHT] keys selects whether only the active kit or all kits will be reloaded. [NO] + [KIT] offers a shortcut to reloading the active kit.

10.2.2 LOAD KIT

Opens a menu where one of the up to 128 saved kits can be loaded. The kit list will appear when this menu is accessed. The active kit is shown with inverted graphics. Select the kit you want to load by using the [ARROW] keys or the TRACK LEVEL knob. [LEFT]/[RIGHT] will quickly scroll between the menu

pages. Once a kit has been selected, press [YES] to load it. The loaded kit are linked to the active pattern. If the active kit is loaded, it will be reloaded to the state it was saved in. Kits that are not associated with any pattern are distinguished by a star symbol after the kit name.

01 KIT 1	♦ 09 --	♦	I
02 BOOM BOOM	♦ 10 --	♦	
03 LETHARGIC	11 --	♦	
04 SNARES	♦ 12 --	♦	
05 METALL	♦ 13 --	♦	
06 --	♦ 14 --	♦	
07 --	♦ 15 --	♦	
08 --	♦ 16 --	♦	

10.2.3 SAVE KIT

Saves all the current kit related settings as a kit. When a kit is saved, it will be linked to the active pattern. [YES] + [PLAY MODE] offers a shortcut to this command, saving the kit instantly to the same slot and with the name of the kit unchanged. It is good practice to use the shortcut frequently to ensure kit changes are saved.

When this menu is opened, the kit list will appear. The active kit is shown with inverted graphics. Select the slot to which the kit will be saved by using the [ARROW] keys or the **TRACK LEVEL** knob. Press [YES] to save to the selected slot. The NAMING screen, covered on page 17, will appear.

10.2.4 CLEAR KIT

Clears the content of the currently loaded kit, basically initializing it. When selecting this option a prompt will appear. Press [YES] to clear the kit or [NO] to cancel the operation. Note that no kit information will be permanently lost until the kit is saved to the same kit slot it was loaded from.

10.2.5 TRACK ROUTING KIT

Customizes track routing. The default setting is to use the TRACK ROUTING global settings found in the GLOBAL SETTINGS menu. See section “14.6 AUDIO ROUTING” on page 65.

If you want custom settings for the currently active kit, press [YES] to untick the USE GLOBAL SETTING box and use the [ARROW] keys [UP] and [DOWN] to navigate the menu.



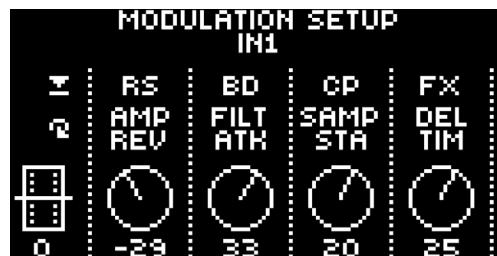
USE GLOBAL SETTING press [YES] if you decide to use GLOBAL settings after all. The <PADS> shows what the current GLOBAL settings are for the drum tracks. <PADS> of a green color send to main. Unlit <PADS> do not.

ROUTE TO MAIN highlight this option to customize which of the 12 tracks will send to the master effects (Distortion and Compressor) and main output. Use the [PADS] to activate/deactivate send from the track of each corresponding pad. <PADS> of a green color send to main. Unlit <PADS> do not. Note that each track still sends to its individual output.

SEND TO FX highlight this option to customize the send FX routing of the 12 tracks. Use the [PADS] to activate/deactivate each corresponding track for sending to the send FX (Delay and Reverb). <PADS> of a yellow color send to FX. Unlit <PADS> do not.

10.2.6 CONTROL IN 1 MOD

Opens the CONTROL IN 1 MOD setup for Control In 1. Basically this is like a performance macro that you can control with CV or an expression pedal connected to the Control In 1 input (labeled EXP/CV IN 1 on the Analog Rytm MKII back panel). The setup for the Control In 1 input can be found in the GLOBAL SETTINGS menu. For more information, please see “14.7 CONTROL” on page 66. This modulation macro is configured the same way as a performance macro.



Up to four track parameters can be assigned to a modulation macro. Parameters can be selected from all drum tracks and the FX track. Press **DATA ENTRY** knobs **A-D** to select the track from which parameters you want to assign to the macro. Select the track parameters that will be assigned by turning **DATA ENTRY** knobs **A-D**. Confirm a selection by clicking the knob or by pressing **[YES]**. **DATA ENTRY** knobs **E-H** are then used to set the depth of the five track parameters. The depth is an offset of the original track parameter value.

By default, the parameter macro knob spans a parameter value range of -128–127. A parameter macro value of 0 will not introduce any changes to the sound.

The bar on the left in the screen shows a graphical representation of the incoming signal.

10.2.7 CONTROL IN 2 MOD

Same functions as CONTROL 1 IN MOD but for CONTROL IN 2.



- Copy, clear and paste operations are available in the LOAD KIT and SAVE KIT menus.
- Use the **TRACK LEVEL** knob to scroll through the LOAD KIT and SAVE KIT menus.
- Once you have assembled a kit you like or changed it to your liking, don't forget to save it using the shortcut **[YES]** + **[PLAY MODE]**.
- An asterisk symbol following the kit name denotes a kit that is not used by any pattern.

10.3 SCENE MODE

Press **[SCNE]** to enter scene mode. A scene is a collection of fixed parameter locks. It enables an instant makeover of how the tracks of the active kit sound, at the touch of a single pad. 12 scenes may be assigned, one for each of the **[PADS]**.

Press one of the **[PADS]** when in scene mode to activate a scene. Only one scene may be active at a time. When active, the pad to which the scene is assigned glows blue. The **<PADS>** of non-empty, inactive scenes glow half-bright blue. Empty scenes have unlit pads. If the pad of the active track contains a scene, the pad is violet colored (a mix of the active track color and the scene color, red and blue).

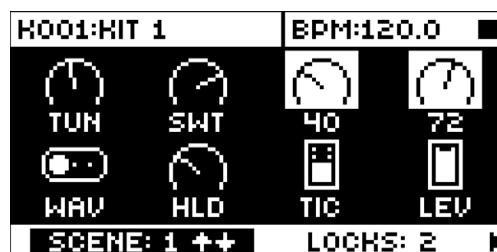
10.3.1 SCENE EDIT

There are 12 assignable scenes available, one for each pad. Make sure SCENE mode is active. Select which scene to edit by pressing one of the **[PADS]**. Then press and hold the **[SCNE]** key for a short while to edit the scene.



When SCENE mode is active, **[FUNC]** + one of the **[PADS]** offers a convenient shortcut to scene edit mode.

When scene edit is active, the bottom of the screen reveals a list showing, from left to right, the scene number, the number of locked parameters, an option to clear the scene and an option to clear all scenes. Use the **[ARROW]** keys **[LEFT]** and **[RIGHT]** to navigate this list.



SCENE shows which scene is being edited. Use **[ARROW]** keys **[UP]** and **[DOWN]** to select another scene.

LOCKS shows the number of parameter locks assigned to the scene. This changes by adding or removing parameter locks (see below).

<**CLEAR**> clears all parameter locks assigned to the scene being edited. Press [**YES**] when this option is highlighted to clear the scene.

<**CLEAR ALL**> clears all parameter locks on all the 12 scenes. Press [**YES**] when this option is highlighted to clear all scenes.

While keeping the scene pad pressed, various parameters can be locked to the scene by turning the **DATA ENTRY** knobs. Any parameter, from any of the 13 tracks, can be modulated and locked to the scene. Choose the drum tracks from which the parameter locks will be assigned by pressing [**TRK**] + [**PADS**]. If parameters from the FX track are to be locked to the scene, press the [**FX**] key. The parameters available for modulation and scene assignation are visible on the screen.

When a scene is edited, the pads of drum tracks containing parameter locks glows half-bright red and flicker. The active track, from which parameter locks are currently set, glows full-bright red. If a scene contains FX track parameter locks, the [**FX**] key flickers while editing the scene. When the scene pad is pressed during edit, parameter locks are shown with inverted graphics and their fixed values (provided the particular track, and the particular parameter page where the locked parameter is located, is active) are also shown.

A total of 48 different parameters may be locked to any of the 12 scenes, in any combination, for each kit. For example, 48 parameter locks may be used for a single scene, two scenes may use 24 parameter locks each, four scenes may use, say, 2, 4, 10 and 32 parameter locks, and so on.

The scene of each pad can be copied, pasted to another pad or cleared using [**FUNC**] + [**RECORD**] / [**STOP**]/[**PLAY**], respectively. SCENE settings are stored to the active kit. Remember to save the kit regularly with [**YES**] + [**PLAY MODE**].

Once the editing is done, simply press the [**SCNE**] key again to exit scene edit mode. The parameter locks you entered will be instantly enabled whenever the scene is activated.

10.4 PERFORMANCE MODE

Enter PERFORMANCE mode by pressing the [**PERF**] key. The PERFORMANCE mode enables you to tweak one or several parameters, chosen from any track, by applying different amounts of pressure to any of the [**PADS**] containing a performance macro. 12 performances may be assigned, one for each of the [**PADS**]. Green color <**PADS**> signal that they contain a performance macro.

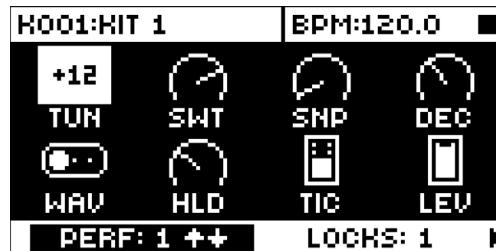


- By gently increasing the amount of pressure applied to a pad containing a performance macro (or quickly pressing, and then gently releasing the applied pressure), all intermediate values of the parameter lock range can be heard while going from one extreme of the modulation depth to the other.
- Press [**FUNC**] + [**QPER**] to mute the PERFORMANCE mode. This temporarily mutes all the changes that have been made to the track parameters by the performance macros. Press [**FUNC**] + [**QPER**] again to unmute the PERFORMANCE mode to let the changes affect the parameters again. The [**QPER**] key is green when PERFORMANCE mode is active and turned off then PERFORMANCE mode is muted.
- As the name implies, the PERFORMANCE mode is a live performance feature. As is the SCENE mode. When recording on the sequencer, PERFORMANCE mode macros and SCENES are not possible to parameter lock.

10.4.1 PERFORMANCE EDIT

Make sure PERFORMANCE mode is active. Press and hold the [**PERF**] key for a short while to enter edit mode.

There are 12 assignable performance macros available, one for each pad. Select which macro to edit by pressing one of the [**PADS**]. When performance edit is active, the bottom of the screen reveals a list showing, from left to right, the performance macro number, the number of locked parameters, an option to clear the macro and an option to clear all macros. Use the [**ARROW**] keys [**LEFT**] and [**RIGHT**] to navigate through this list.



PERF shows which performance macro is edited. Use [ARROW] keys [UP] and [DOWN] to select another performance macro to edit.

LOCKS shows the number of parameter locks assigned to the performance macro. This figure will only change by adding or removing parameter locks (see below).

<CLEAR> clears all parameter locks assigned to the performance macro that you edit. Press [YES] when this option is highlighted to clear the macro.

<CLEAR ALL> clears all parameter locks on all the 12 performance macros. Press [YES] when this option is highlighted to clear all macros.

While keeping the pad pressed, various parameters can be locked to the macro by turning the **DATA ENTRY** knobs. Any parameter, from any of the 13 tracks, can be locked to the macro. Choose the drum tracks from which the parameter locks will be assigned by pressing [TRK] + [PADS]. If parameters from the FX track are to be locked to the macro, press the [FX] key. The parameters available for modulation and macro assignation will be visible on the screen.

When a macro is edited, the pads of drum tracks containing parameter locks will glow half-bright red and flicker. The active track, from which parameter locks are currently set, will glow full-bright green. If a macro contains FX track parameter locks, the [FX] key will flicker while editing. When a pad containing a performance macro is pressed during edit, parameter locks are shown with inverted graphics and their modulation depth values (provided the particular track, and the particular parameter page where the locked parameter is located, is active) are also shown.

A total of 48 different parameters may be locked to any of the 12 performance macros, in any combination, for each kit. For example, 48 parameter locks may be used for a single macro, two macros may use 24 parameter locks each, four macros may use, say, 2, 4, 10 and 32 parameter locks, and so on.



- While the process of editing a performance macro is similar to editing a scene, the parameter locks have a completely different functionality. Whereas scene mode locks are fixed values, performance mode locks are modulation depth settings.
- If, for example, the TUN parameter on the SRC parameter page of the BD track is locked to a value of +24, the performance macro will, when engaged, perform a relative increase of the TUN setting of the track Sound between 0 and +24, depending on the amount of pressure applied to the pad to which the performance macro is assigned. 0 if no pressure is applied, 12 if medium pressure is applied and 24 if maximum pressure is applied.
- If the TUN parameter is locked to a value of -24 instead, no pressure will produce a relative value decrease of 0, medium pressure -12 and maximum pressure -24.
- Note that the offset is relative to the general TUN (or any other) parameter setting: if the general setting is 30, a parameter lock with a modulation depth of +24 is set, and maximum pressure is applied to the pad which contains the performance macro, the resulting value will be +54.

The macro of each pad can be copied, pasted to another pad or cleared using [FUNC] + [RECORD]/[STOP]/[PLAY], respectively. PERFORMANCE mode settings are stored to the active kit. Remember to save the kit regularly with [YES] + [PLAY MODE].

Once the editing is done, simply press the [PERF] key again to exit edit mode. The parameter locks you entered will be activated whenever the pad containing the performance macro is pressed, provided PERFORMANCE mode (but not performance edit) is active. The relative modulation depth of all locked parameters will respond to the amount of pressure applied to the pad.

10.4.2 QUICK PERFORMANCE

Quick performance gives you the possibility to control one or several of your performance macros with the **QUICK PERF AMOUNT** knob without being in PERFORMANCE mode.

1. Press and hold [QPER], and then press one or more [PADS] or [TRIG 1-12] keys to select which performance macros you want to control with the **QUICK PERF AMOUNT** knob. The [PADS] and the [TRIG 1-12] keys correlate to the 12 performance macros you have at your disposal.
2. Release [QPER].

Every time you perform this procedure you remove any earlier assignments.

For more information, please see “10.4.1 PERFORMANCE EDIT” on page 29. Once you have selected which performance macro to control, use the **QUICK PERF AMOUNT** knob to control how much the performance macro will affect the tracks.

10.5 SOUND MENU

In this menu Sounds in the +Drive Sound library or the Sound pool of the active project can be browsed and managed. Other menu options let you clear the track Sound, rename the track Sound or change the settings for the track Sound. Open the menu by pressing [FUNC] + [MUTE]. Use the [UP] and [DOWN] arrow keys to move between the options. Press [YES] to confirm your selection. Exit the menu by pressing [NO].



10.5.1 SOUND BROWSER

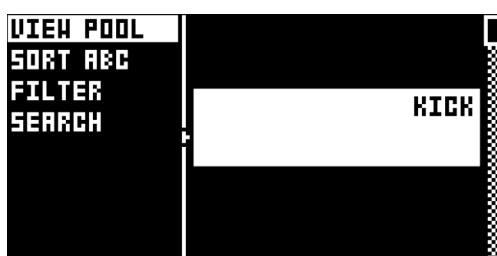
The SOUND BROWSER is for previewing and loading of Sounds. Opening the menu shows a list of all Sounds in either the +Drive Sound library or the Sound pool. Only the Sounds that can be loaded to the active track will be shown. For example, if the CH track is active, only the Sounds using the MACHINES available for the CH (and OH) track is visible. If you wish to browse various Bass Drum Sounds, for instance, first make sure the BD is the active track by pressing [TRK] + the first [PADS] key. Scroll the list by turning the **TRACK LEVEL** knob or by pressing [UP]/[DOWN]. Load a Sound by pressing [YES]. Unlike the SOUND MANAGER menu, it does not have the SOUND OPERATIONS menu. Also, empty Sound slots are not shown here.



You can also double-press [TRK] to open the SOUND BROWSER.



Pressing [LEFT] accesses the SORTING menu. Press [YES] to execute the commands. Press [NO] or the [RIGHT] arrow key to exit the menu.



VIEW POOL lists Sounds available in the Sound pool of the active project. The command is only available when browsing the +Drive Sound library.

VIEW +DRIVE lists Sounds available on the +Drive Sound library. The command is only available when browsing the Sound pool of the active project.

SORT ABC sorts the Sounds in alphabetical order. The command is only available when Sounds are sorted by slot number.

SORT 123 sorts the Sounds by slot number (or +Drive position). The command is only available when Sounds are sorted alphabetically.

FILTER opens a list where Sounds can be arranged according to tags. Select and deselect tags by pressing [YES]. Multiple tags can be selected. Exit the tag list by pressing [NO].

SEARCH performs a text search and list all Sounds with names matching or including the text input. See "6.5 THE NAMING SCREEN" on page 17 on how to enter text.

10.5.2 SOUND MANAGER

The SOUND MANAGER is a more comprehensive version of the SOUND BROWSER. Sounds can be saved, loaded, renamed, tagged et cetera. Opening this menu shows a list of all Sounds found in either the +Drive Sound library or the Sound pool. Unlike the browser, all Sounds will be shown, not just the Sounds that can be used by the active track. The color of the active track pad will show if the Sound can be loaded or not. Violet color means it can. Additionally, when a Sound is highlighted, the <PADS> of all tracks to which the Sound can be loaded will be shown in dim red color. Sounds can be previewed by tapping the pad of the active track, provided that the Sound can be voiced by the track (i.e. the pad color is violet) Scroll the list by turning the **TRACK LEVEL** knob or by pressing [**UP**]/[**DOWN**].

R:001	KLAS	<KICK>
R:002	QUCK	<KICK>
R:003	YAP	<KICK>
R:004	ELEX	<KICK>
R:005	FIIZZ	<KICK>
R:006	TILO	<KICK>
R:007	DODGE	<KICK>
R:008	COMBO	<KICK>

Pressing [**LEFT**] accesses the SORTING menu. The available commands are the same as those found in the SORTING menu of the SOUND BROWSER. Read more in the section "10.5.1 SOUND BROWSER" on page 31.

VIEW POOL	<KICK>
SORT ABC	<KICK>
FILTER	<KICK>
SEARCH	<KICK>
	<KICK>

Pressing [**RIGHT**] accesses the SOUND OPERATIONS menu. The available operations affects the highlighted Sound. Press [YES] to apply the commands to the selected Sound. Press [NO] or the [**LEFT**] arrow key to exit the menu.

R:001	KLAS	LOAD TO TRACK
R:002	QUCK	COPY TO ...
R:003	YAP	STORE TRK SOUND
R:004	ELEX	RENAME
R:005	FIIZZ	EDIT TAGS
R:006	TILO	DELETE
R:007	DODGE	SELECT ALL
R:008	COMBO	DESELECT ALL

LOAD TO TRACK loads the selected Sound to the active track and makes it a part of the active kit.

COPY TO... Copies the selected sounds to one of the following:

- POOL copies the selected Sounds to the first free slots of the active project Sound pool.
- +DRIVE copies the selected Sounds to the first free slots of the +Drive Sound library.
- +BANK (A-P) copies the selected Sounds to the first free slots of a specific bank inside the +Drive.

STORE TRACK SOUND saves the active track Sound to the selected slot. Please note that outside of the SOUND MANAGER, at any time (except when in MUTE mode or SONG EDIT mode), [YES] + [MUTE] offers a shortcut to this operation. You also have the possibility to save the Sound that is generated on a specific trig. Press **[TRIG]** + **[MUTE]** (in GRID RECORDING mode) to save that trig's Sound complete with its parameters locks added.

RENAME renames the selected Sound.

EDIT TAGS opens a menu where Sounds can be tagged. Sounds can have any number of tags, but only the first two will be shown on the Sound list. Apply or remove tags by pressing **[YES]**.

DELETE deletes the Sound.

SELECT ALL selects all Sounds in the list.

SELECT UNUSED selects all Sounds that are not used in any pattern in the project from the Sound pool. The Sounds are not removed from the +Drive Sound library. Then select **DELETE** to remove the selected sounds from the project's Sound pool. The **SELECT UNUSED** command is only available when you browse the Sound pool of the active project.

DESELECT ALL deselects all Sounds in the list.

TOGGLE enables or disables write protection for the selected Sounds. When a Sound is write protected it cannot be overwritten, renamed, tagged or deleted.

SEND SYSEX sends the selected Sounds as SysEx data.



- Sounds in the +Drive Sound library are organized into 16 banks, ranging from A to P. Each bank can contain 256 Sounds. Use the **[TRIG]** keys to view only Sounds located in a specific bank.
- You can preview the currently selected Sound by tapping the pad of the active track. All Sounds available for the active track can be previewed. Please note that if the previewed Sound is sent to the effects, the current effects settings will affect it.
- Several Sounds can be simultaneously affected by the commands available in the SOUND OPERATIONS menu. Select/deselect individual Sounds by highlighting them and pressing **[YES]**.
- Press **[FUNC]** + **[UP]/[DOWN]** for faster scrolling in the Sound list.
- Press **[TRIG]** + **[MUTE]** (in GRID RECORDING mode) to save that trig's Sound complete with its parameters locks added.

10.5.3 CLEAR TRACK SOUND

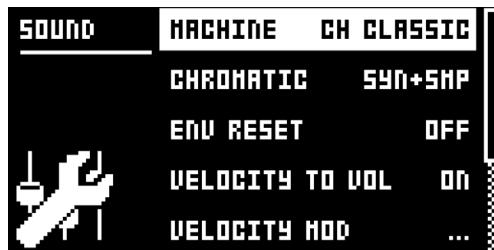
Sets the PARAMETER page parameters of the active track to their default values. When choosing this option, a prompt will appear. Press **[YES]** to reinitialize the parameters or **[NO]** to cancel the operation. Note that no parameter information will be permanently lost until the kit is saved to the same slot it was loaded from.

10.5.4 RENAME TRACK SOUND

Opens a NAMING screen where the Sound of the active track can be renamed.

10.5.5 SOUND SETTINGS

Opens a menu where various overarching Sound settings are found. These settings are stored to the active kit. Use the **[UP]/[DOWN]** arrow keys or the **TRACK LEVEL** knob to scroll through the menu. Use the **[LEFT]/[RIGHT]** arrow keys to change the settings.



MACHINE select the MACHINE with which the active track Sound will be generated. Only the MACHINES available for the active track will be shown. To swiftly change MACHINE, use the shortcut command by quickly pressing the first [PARAMETER] key, SRC, twice. To find out more about MACHINES, see “APPENDIX D: MACHINES” on page 96.

CHROMATIC sets which parts of the Sound CHROMATIC mode, as well as the trig page **NOT** parameter, will affect:

- OFF means the pitch will not be affected at all.
- SYNTH affects the pitch of the Synth part only.
- SAMPLE affects the pitch of the Sample part only.
- SYN+SMP affects the pitch of both Synth and Sample parts.

ENV RESET sets the filter envelope behavior:

- OFF does not reset the envelope for each consecutive trig (it instead lets the envelope start where it currently is in the cycle).
- FILTER resets the envelope for each consecutive trig (default).

VELOCITY TO VOL select how velocity will affect volume when playing the Sound on the [PADS] or with an external MIDI unit.

- OFF means velocity will not affect the volume of the Sound.
- ON means the volume will correspond linearly to velocity.

VELOCITY MOD gives access to a menu where up to four PARAMETER page parameters can be assigned to the velocity mod parameter. Open the menu by pressing [YES]. Use **DATA ENTRY** knobs **A-D** to select parameters from any of the PARAMETER pages. Press [YES] to confirm selection. Use **DATA ENTRY** knobs **E-H** to set the modulation depth for the chosen parameters. Use the **TRACK LEVEL** knob to set the overarching velocity range.

AFTERTOUCH gives access to a menu where up to four PARAMETER page parameters can be assigned to the [PADS] or external MIDI unit aftertouch command. Open the menu by pressing [YES]. Use **DATA ENTRY** knobs **A-D** to select parameters from any of the PARAMETER pages. Press [YES] to confirm selection. Use **DATA ENTRY** knobs **E-H** to set the modulation depth for the chosen parameters. Use the **TRACK LEVEL** knob to set the overarching velocity range.

SMP: displays the full name of the sample loaded to the active track.

LEGACY FX SEND will when checked lower the FX send levels slightly to make Sounds made for an earlier Analog Rytm OS sound as they were intended.



- Copy, clear and paste operations are available in the **SOUND BROWSER** and **SOUND MANAGER**.
- Use the **TRACK LEVEL** knob for faster scrolling in the **SOUND BROWSER** and **SOUND MANAGER**.

10.6 PLAYING A SOUND

Press [PLAY MODE] to use the [PADS] to trigger the drum track Sounds, and then tap any of the [PADS] to play the Sounds of the active kit. The <PADS> will briefly flash when pressed. Each pad is velocity sensitive, so a gentle tap and a decisive stab on the pad will produce drum sounds of different intensities.

Use [FUNC] + [PADS] to trig the Sound at the velocity set on the trig page for each track (the VEL parameter). You can also set the pads to trigger with a fixed velocity. For more information, please see “11.9 FIXED VELOCITY” on page 45.

The [TRIG] keys 1-12 can also be used to play the Sounds of the twelve tracks, also at the velocity set on the trig page for each track.

Press and hold [RTRG], then press and hold any of the [PADS] to continuously retrig the track Sound for as long as the pad is held. Play drum rolls in this manner on one or several of the pads, each with its own assignable retrig settings. Pressure controls retrig velocity. Aftertouch is disabled during retrig. See "11.4 RETRIG MENU" on page 41.

Sounds that are designed for aftertouch play may be played by tapping and then pressing a pad without lifting your finger in between. Settings controlling this can be found in the SOUND menu. For more information, please see "10.5 SOUND MENU" on page 31.

PLAYING A SOUND WITH AN EXTERNAL MIDI UNIT

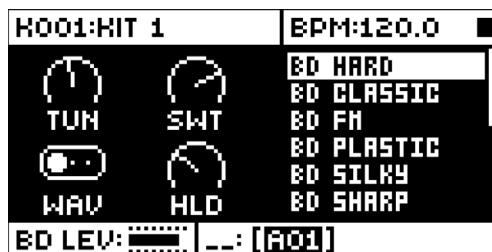
Besides using the [PADS], the Sounds can also be played using an external MIDI controller or keyboard connected to Analog Rytm MKII. Which MIDI tracks the voices respond to are set up in the MIDI CHANNELS menu, covered in the section "14.4.3 CHANNELS" on page 63.

10.7 EDITING A SOUND

Select one of the drum tracks for editing by pressing [TRK] + one of the [PADS]. The information bar on the screen, showing which kit is loaded, will briefly change to show the name of the drum track Sound. When editing, the MACHINE, Sound and sample settings of the track can be changed, and any changes made will be stored as part of the active kit.

Adjust the overall volume level of the active drum track with the **TRACK LEVEL** knob.

The current MACHINE in use will determine which SYNTH parameters will be available for Sound modulation. Press [FUNC] + [SRC] or quickly press the [SRC] key twice to open a menu for MACHINE selection.



Browse through the MACHINE list using the [ARROW] keys [UP] and [DOWN]. Sample the MACHINE currently outlined by tapping the pad of the active track. Select the outlined MACHINE by pressing [YES]. Exit without switching MACHINE by pressing [NO].

Edit a track Sound by adjusting the parameters found on the PARAMETER pages. Access these pages by pressing one of the five [PARAMETER] page keys. Use the **DATA ENTRY** knobs A-H to change the parameters. For a complete description of the functions of the parameters, please see "APPENDIX A: DRUM TRACK PARAMETERS" on page 77.

SRC controls the analog drum synthesis parameters of the MACHINE selected.

SMPL controls the sample selection and settings.

FLTR controls the filter mode, cutoff frequency, and envelope.

AMP controls the amplitude parameters, effect sends, and levels.

LFO controls parameters for the LFO of the active track.

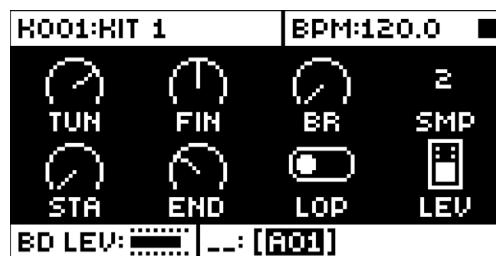
When you want to save a particular Sound with all its current parameter settings, use the quick command [YES] + [MUTE]. Toggle destination, Sound Pool or +Drive, by accessing the left-hand menu, [ARROW] key [LEFT], then press [YES]. Select which slot to save to using the [ARROW] keys [UP] and [DOWN], or the **TRACK LEVEL** knob, and press [YES]. If you select a non-empty slot, the current Sound will overwrite the Sound previously saved to the slot. Name the Sound (see "THE NAMING SCREEN" on page 10) and select a suitable tag, or several tags (KICK, SNARE, RIMSHOT et cetera), using the [ARROW] keys + [YES].

The complete Sound, comprised of all its parameter settings, may be copied to another track by first pressing [TRK] + [RECORD], then selecting the track you want to copy the Sound to using [TRK] + one of the [PADS], and finally pasting by pressing [TRK] + [STOP]. Note that the Sound can only be pasted to a track that is compatible with the Sound.

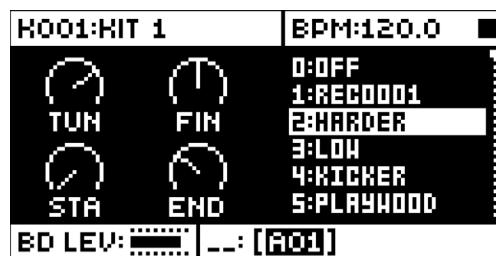
10.8 SELECTING A SAMPLE

Any of the 127 samples in the (RAM) memory may be assigned to a Sound on any of the drum tracks. The samples can be replaced, relocated and otherwise managed in the SAMPLES manager found in the GLOB-

AL MENU. See section “14.2 SAMPLES” on page 58. Select the active drum track by pressing [TRK] + one of the [PADS]. Open the SAMPLE parameter page by pressing the [SMPL] key.



Turn **DATA ENTRY** knob **D** to bring up a list of samples.



Turn the knob counter-clockwise to scroll up the list, clockwise to scroll down the list. Tap the pad of the active track while browsing to listen to the sample currently outlined.

Press **[FUNC]** and **[YES]** to replace a sample in one of the slots with one found in any of the sample directories. To learn more about sample directories, see “GLOBAL MENU” on page 51.

To select an highlighted sample, press **[YES]**, or press **DATA ENTRY** knob D. Press **[NO]** to exit the list without selecting a sample.



Sample selection may also be accessed by pressing **[FUNC]** + **[SMPL]**.

10.9 EDITING THE FX

Select the FX track for editing by pressing the **[FX]** key. The FX track controls Analog Rytm MKII internal send effects (Delay and Reverb) and master effects (Distortion and Compression). Editing the FX track is similar to editing the Sounds of the drum tracks. The PARAMETER pages contain all FX parameters.

There are five PARAMETER pages for the FX track. Access the PARAMETER pages by pressing one of the **[PARAMETER]** keys. Use the **DATA ENTRY** knobs **A-H** to change the parameters. The first two, Delay and Reverb, are send effects: their parameters are set on the FX track, but their incoming signals are set on the DEL and REV send parameters on the AMP page of each drum track. The following two, Distortion and Compressor, are master effects: they condition all sounds with distortion or compression. The last page is the dedicated FX track LFO, with which you can temper any of the parameters on the FX track with a custom low-frequency oscillation along one of seven possible waveforms, enabling - to name but one example - tidal modulation of sound distortion. For complete explanations of the parameters on the FX track, please see “APPENDIX B: FX TRACK PARAMETERS” on page 81.

DELAY controls the character, reverb send and volume of the delay send effect.

REVERB controls the character and volume of the reverb send effect.

DIST controls the amount and character of distortion applied.

COMP controls the behavior, volume and dry/wet mix of sound compression.

LFO controls parameters for the FX track LFO.



- FX and track parameter settings are stored as part of a kit. Don't forget to save the kit and give it a unique name once you have achieved the results you want, or simply press **[YES]** + **[PLAY MODE]** to quickly save the active kit with its name unchanged.

Set the master return level of the Delay and Reverb outputs on the FX track with the **TRACK LEVEL** knob. These send effects also have individual volume parameters.

11. THE SEQUENCER

The sequencer of the Analog Rytm MKII stores beat information in patterns. A pattern controls the playback of the drum tracks, the FX track and various pattern-specific aspects of these. Each of the 8 banks, ranging from A to H, contains 16 patterns, which means 128 patterns are instantly available for each project. All changes made to the patterns are stored automatically. Changes made to the active pattern can be reverted, as long as it is active. Read more in the “PATTERN MENU” on page 38.



All sequencer tracks on the Analog Rytm MKII can also be set to send sequencer data through the MIDI OUT or USB ports to control external, MIDI equipped, gear. Each track sends note on/off and velocity data over MIDI. For more information, please see “11.8 TRIGS SETUP MENU” on page 45.

A pattern contains:

- General trig settings on the TRIG page (default note pitch, velocity et cetera).
- Quantization settings.
- Note trigs for all tracks.
- Lock trigs for all tracks.
- Parameter locks.
- Sound locks.
- Trig mutes.
- Accent trigs.
- Slide trigs.
- Swing trigs & swing amount.
- A kit linked to the pattern.
- Length and time signature for the tracks.

11.1 BASIC PATTERN OPERATIONS

Analog Rytm MKII can seamlessly switch between patterns. This, along with the ability to chain patterns, is a handy feature when improvising live.

11.1.1 SELECTING A PATTERN

Press a [BANK] key. A window will appear on the screen for a short while, displaying “CHOOSE PTN.” Press a [TRIG] key to select a pattern within the chosen bank. For example, to select pattern B05, press [BANK B] and then [TRIG 5].

Patterns containing data are shown with half-bright red [TRIG] keys. The current active pattern is shown with a full-bright red [TRIG] keys.

When you select a pattern containing no data, the kit of the previous pattern will be preliminarily selected, and the kit number will start flashing on the screen (to draw attention to the fact that the kit is not yet decisively linked to the new pattern). Load another kit, if you wish, at this point. When you start editing the pattern or save the kit, the kit will be linked to the pattern, and the kit number will stop flashing on the screen.

When a pattern is playing, and a new pattern is selected, the new pattern position will be shown flashing in the lower left corner of the screen (If default, SEQUENTIAL, pattern mode is active). Once the last step of the pattern has played, the new pattern will start, and the pattern position will cease to flash.



- Patterns can be changed while the sequencer is running.
- Patterns can be changed and queued by sending program change messages.
- After a pattern is selected, and before releasing any key, [RECORD], [PLAY] and [STOP] can be pressed to copy, clear or paste patterns without leaving the active pattern. It is possible to clear and paste multiple patterns at the same time.

11.1.2 PATTERN CONTROL

Pressing [PLAY] will start the playback of a pattern. Pressing [STOP] will stop the playback of all tracks. The sound will be cut off, but effects like Delay will continue to be audible until the delay repeats have faded out. When the sequencer has stopped, quickly press [STOP] + [STOP] to stop playback of all tracks and fade out the send effects. This also sends out an All Sound Off message over MIDI.

When a pattern is playing and [PLAY] is pressed the playback will be paused. Press [PLAY] again to resume the playback.

If a pattern contains more than 16 sequencer steps, the <PATTERN PAGE> LEDs will indicate this. When a pattern is playing, the currently active pattern page is shown with a flashing, full-bright, <PATTERN PAGE> LED.

11.1.3 PAGE PLAYBACK

If your pattern uses multiple pages, you can select which pages you want to play and loop. In normal playback mode, press and hold [PAGE]. The [TRIG 1-4] keys light up. Press [TRIG 1-4] to select which pages you want to play. For example, if you press [TRIG 2] and then [TRIG 4], pages two and four will play and loop while skipping pages one and three. On top of this, you can also select which track you wish to be affected by the page playback selection. While holding [PAGE] press the [PADS] to exclude/include a track to be affected by the playback selection. Unlit [PADS] shows that a specific track is excluded and will instead play back all steps assigned to it. You can also press and hold [PAGE] and then press [FX] to exclude/include the FX track.

Release [PAGE] to leave the PAGE PLAYBACK screen and stay in PAGE PLAYBACK mode.

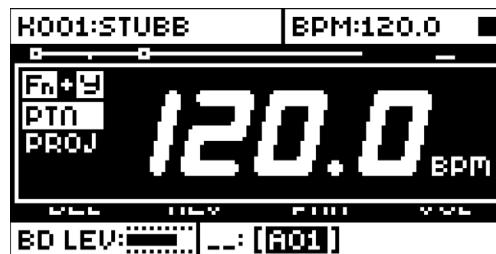
Press and hold [PAGE] and then press [NO] to resume normal playback.



You can also set the page playback in GRID RECORDING mode. Press [PAGE] + [NO]. The [TRIG 1-4] keys light up. While holding for [PAGE] you can press [TRIG 1-4] to select which pages you want to play.

11.1.4 TEMPO

Press the [TEMPO] to open the TEMPO screen where you can set the overall BPM speed.



Use the **TRACK LEVEL** knob to change the tempo setting. The [UP] and [DOWN] key changes the decimal part of the tempo.



Note that you can choose between a project tempo (same tempo for all the patterns in a project) or use a separate tempo for every pattern. Press [FUNC] + [YES] to switch between PROJECT and PATTERN tempo mode.

To tap a tempo setting, hold the [FUNC] key and tap the [TEMPO] key in a steady rhythm. After four consecutive taps, the average tempo of the taps will be calculated. By continuing tapping, the average tempo will keep on updating.

The tempo can be temporarily nudged up or down by 10% by pressing the [LEFT] or [RIGHT] arrow keys. When the key is released, the BPM will revert to the original setting.

When in the TEMPO menu, holding [FUNC] while turning the **TRACK LEVEL** knob will not change the tempo to the selected value until the [FUNC] key is released. While doing this, "PREP." will flash in the bottom left corner of the screen.



Tempo shift is very handy when manually syncing Analog Rytm MKII to a turntable or an external sound source. Note that you do not need to be in the TEMPO menu to perform tempo shifting

11.2 PATTERN MODES

When changing patterns, different modes affecting the way the active pattern will be changed exist. Press [FUNC] + [BANK A-D] to select PATTERN mode. The <PATTERN MODE> LEDs indicate which mode is selected. There are four PATTERN modes.

SEQUENTIAL changes patterns after the currently playing pattern reaches its end. This mode is the default mode.

DIRECT START immediately changes patterns. The new pattern will start playing from the beginning.

DIRECT JUMP immediately changes patterns. The new pattern will start playing from the position where the previous pattern left off.

TEMP JUMP works a little bit differently from the other PATTERN modes. It works like this:

1. Press **[FUNC]** + **[BANK D]** to arm TEMP JUMP PATTERN mode. The Temp Jump LED starts to flash (if the sequencer is running) to indicate that Temp Jump mode is armed.
2. Select a new pattern. The Temp Jump LED is now firmly lit to indicate that Temp Jump mode is active. The pattern changes immediately and the new pattern starts playing from the position where the previous pattern left off. It plays the new pattern once to the end and then return to the pattern that was playing before the change. Once the sequencer has returned to the earlier pattern, then TEMP JUMP mode is no longer active.

You can also use TEMP JUMP mode when you are in CHAIN mode, but then the pattern you change to instead replaces the current pattern in the chain. For example, say that you have a chain set up like this: A01 > A03 > A04 > A02. When the chain is playing, and you are in TEMP JUMP mode, change pattern to A16 while pattern A03 is playing. The pattern will immediately change to A16 and once A16 has ended then the chain will continue to play from pattern A04.

11.3 EDITING A PATTERN

Analog Rytm MKII offers three modes of input when editing or creating a pattern, GRID RECORDING mode, LIVE RECORDING mode, and STEP RECORDING mode. In these modes you can add two types of trigs: note trigs and lock trigs.

11.3.1 TRIG TYPES

There are two types of trigs, note trigs and lock trigs. Note trigs trig notes while lock trigs are used to apply parameter locks without triggering notes. Note trigs are shown with red **[TRIG]** keys and lock trigs are shown with yellow **[TRIG]** keys. Steps not containing any trigs have unlit **[TRIG]** keys. Read more about parameter locks in section “11.12.1 PARAMETER LOCKS” on page 47. The two types of trigs are entered in different ways on the sequencer depending on whether GRID or LIVE recording mode is active.

11.3.2 GRID RECORDING MODE

GRID RECORDING is a method of composing where you use the **[TRIG]** keys to add trigs.

Enter GRID RECORDING mode by pressing the **[RECORD]** key. A lit red **[RECORD]** key indicates GRID RECORDING mode is active. Select the track to which you want to add trigs, by pressing the **[TRK]** key + one of the **[PADS]** (or just by pressing the **[PAD]** if set up so in the SEQUENCER CONFIG menu). Place note trigs on the sequencer by pressing the **[TRIG]** keys 1-16 in the sequence desired. When CHROMATIC mode is active, the pitch value of the note trig will be recorded according to which **[PADS]** key is pressed. To add a lock trig, press **[FUNC]** and **[TRIG]**. Add micro timing (shifting it forward or backward on the time grid) to a note trig by pressing and holding the **[TRIG]** key while pressing **[ARROW]** keys **[LEFT]** or **[RIGHT]**. A micro timing pop-up menu appears, showing the time offset. If you press a **[TRIG]** key that contains a micro timed trig, the **[LEFT]** or **[RIGHT]** keys lights up to indicate the direction of the micro timing.



Set the retrig speed by pressing and holding the **[TRIG]** key while pressing **[ARROW]** keys **[UP]** or **[DOWN]**. Similarly, a pop-up menu will appear on the screen, where various retrig settings can be made. For more information, please see “11.4 RETRIG MENU” on page 41.

If the pattern contains more than 16 steps, select the pattern page you want to edit by pressing the **[PAGE]** key. The active pattern page is shown with a fully lit <PATTERN PAGE> LED.

Press **[PLAY]** to listen to the sequence.



- Press **[TRIG]** + **[YES]** to preview a specific trig. The preview includes any parameter locks you have placed on that trig.
- All trigs of a track can be shifted forwards or backward on the sequencer. While in GRID RECORDING mode, hold down **[FUNC]** while pressing the **[LEFT]** or **[RIGHT]** arrow keys to perform the trig shift.

11.3.3 LIVE RECORDING MODE

LIVE RECORDING mode is the second method of adding trigs to the tracks. In this recording mode, the [PADS] are played in real time to input trigs to the tracks. It is also possible to enter parameter locks in real time. Trigs input in LIVE RECORDING mode will be placed on the sequencer in a micro-timed fashion, which means trigs will be placed to more accurately reflect the input timing of the trigs. This makes LIVE RECORDING mode record note inputs in a more real time and non-quantized way. However if you wish, micro timed trigs can be quantized, which is done in the TRIGS SETUP menu accessed by pressing [FUNC] + [TRIG]. For more information, please see “11.8 TRIGS SETUP MENU” on page 45.

Hold [RECORD] and press [PLAY] to enter LIVE RECORDING mode. The sequencer will start to play, and the [RECORD] key will start to flash. You can now enter trigs to the active track in real time by playing the [PADS]. Key presses on the [PADS] will be recorded as note trigs, and the velocity and duration of the key presses will affect the values of the note trigs. Also, the pitch value of the note trig, if CHROMATIC mode is active, will be recorded. Any changes to the PARAMETER page settings, using the **DATA ENTRY** knobs, will be recorded on the sequencer as parameter locks.

To activate or deactivate quantization of the LIVE RECORDING, press [RECORD], then double-press [PLAY]. Repeat the command to deactivate. Quantization of live recording can also be set in the SEQUENCER CONFIGURATION menu found in the GLOBAL SETTINGS menu.

Press [NO] + one (or several) of the [PADS] to erase a sequence of recorded trigs on a track (or on several tracks) in time with the sequencer, i.e. all steps reached on the pattern playing will be erased, until the keys are released.

To stop both the recording and the playback of the sequencer, press [STOP]. To exit LIVE RECORDING mode while keeping the sequencer playing, press [PLAY]. If LIVE RECORDING mode is active and [RECORD] is pressed, GRID RECORDING mode will be activated.

11.3.4 STEP RECORDING MODE

STEP RECORDING is a quick and straightforward method of placing trigs on the sequencer. In this recording mode, you insert notes by pressing the [PADS] or using an external MIDI controller. The sequencer then captures the note and automatically advances to the next step. There are two different modes available, STANDARD mode and JUMP mode.

STANDARD mode

1. Press [RECORD] + [STOP] to enter STEP RECORDING mode. The [RECORD] key starts to double-blink red. (Press [STOP] twice while keeping the [RECORD] key pressed to toggle between STANDARD and JUMP mode).
2. Press a [TRIG] key to select the active step to where you want to start to add note trigs. The active step is shown with a green [TRIG] key that double-blanks. (If positioned on an earlier placed trig, it inherits the light pattern of that trig). You can also use [LEFT]/[RIGHT] to select the active step or skip steps.
3. Press one or several of the [PADS] simultaneously to add trigs to the corresponding tracks on the active step. The active step then automatically advances to the next step. Press [CHRO] to add trigs to the active track in CHROMATIC mode. Press [TRK] + [PAD] to select active track.
4. To remove a trig on the active track or to add a rest (no trig), position the active step on the trig that you want to remove or add a rest to, and then press [NO]. The active step then automatically advances to the next step.
5. To add a parameter lock to a trig, press and hold a [TRIG] key, and then turn the **DATA ENTRY** knob that controls the parameter you want to lock and set it to the desired value. The graphics become inverted for the locked parameter, and the locked parameter value is displayed. The [TRIG] key of the locked trig blinks red (for note trigs) or yellow (for lock trigs) to indicate that the trig now contains a parameter lock.
6. Press [RECORD] to exit STEP RECORDING mode.

JUMP mode

In JUMP mode, the **LEN** parameter setting on the TRIG PARAMETER page controls the note length of the trigs you place, and advances the active step the same length. A **LEN** value of 1/16 adds a sixteenth note and advances the sequencer one step. 1/8 adds an eighth note and advances the sequencer two steps. 1/4 adds a quarter note and advances the sequencer four steps and so on. The **LEN** parameter is also parameter locked on every trig you place. If you add trigs from multiple tracks simultaneously the cursor will progress according to the **LEN** setting of the first track played.



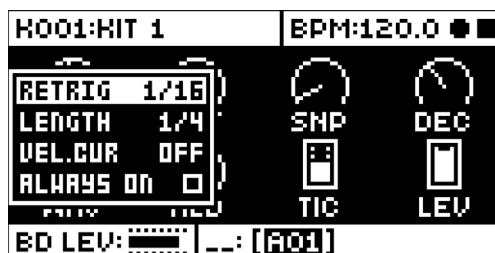
- The [TRIG] keys display the trigs placed on the active track.
- Press [TRIG] + [YES] to preview a specific trig on the active track. The preview includes any parameter locks you have placed on that trig.
- If you press and hold a [PAD], and then press one or several other [PADS] it will add trigs on multiple tracks on the same sequencer step.
- You can press [PLAY] to listen to the sequence while you are programming it. Press [STOP] to stop the sequencer and stay in STEP RECORDING mode.
- If you use an external MIDI controller, you must set it to send MIDI data on the defined AUTO CHANNEL. For more information, please see “14.4.3 CHANNELS” on page 63.
- If you use an external MIDI controller, the trig’s VEL (velocity) value is determined by the velocity sent from these and is parameter locked (Only on trigs that already contains locked velocity data). But, if you press and hold [FUNC] while inputting notes from an external MIDI controller, the velocity is fixed and determined by the VEL parameter setting.



- If you press and hold [YES] while you place a trig with the [PADS] or an external MIDI controller, the trig length is locked to the time you press the [PADS] or the external MIDI controller.
- If you add a new note trig on a previously placed note trig, any parameter locks previously placed on that trig remain as they were.

11.4 RETRIG MENU

When the [RTRG] key is pressed and held, the retrig menu for the active track will appear on the left side of the screen. In this menu, a host of retrig actions can be set. Each of the twelve drum tracks can have its own set of retrig settings. The retrig settings are stored to the active kit.



Use the [ARROW] keys [UP] and [DOWN] to highlight one of the retrig actions (there are more than the four visible on the screen). Change values using the [ARROW] keys [LEFT] and [RIGHT]. The values can also be set using the **TRACK LEVEL** knob. The retrig actions available in this menu are:

RETRIG Sets the retrig rate (1/1, 1/2, 1/3, 1/4, 1/5, 1/6, 1/8, 1/10, 1/12, 1/16, 1/20, 1/24, 1/32, 1/40, 1/48, 1/64 or 1/80). 1/16 is the nominal retrig rate, one trig per step. 1/32 corresponds to two trigs per step and so on. To trig triplets, for example, set the retrig rate to 1/12 (or 1/24).

LENGTH Sets the duration of the retrig velocity curve in fractions of, or rational or integer multiples of, a step (0,125 - INF). 1/16 is the nominal length of one step. This setting affects the behavior of the velocity curve (see directly below), by defining the boundaries of its envelope.

VEL. CUR Sets the velocity curve fade out/fade in of the retrig (-128 to 127). -128 corresponds to a complete fade out during the set length, -64 fades out to half the velocity during the set length, 0 equals a flat velocity curve with no fade, 64 fades into half velocity during the set length and 127 fades in completely to full velocity during the set length.

ALWAYS ON Sets retrig lock ON/OFF. When on, the retrig will activate whenever the pad of the active track is pressed without the need to press [RTRG] first.

Retrigs can be recorded on the sequencer in GRID RECORDING mode as well as in LIVE RECORDING mode. Trigless trigs are inserted to record pad pressure changes.

Retrigs can be customized on any of the sequencer steps. Press a [TRIG] key, then press the [RTRG] key or the [ARROW] keys [UP] or [DOWN]. This will bring up a pop-up menu on the screen showing four retrig actions.



As long as the [TRIG] key is pressed, the pop-up menu will remain visible. In order to activate/deactivate the retrig, press the [RTRG] key, or turn **DATA ENTRY** knob A. To set the retrig rate, press the [ARROW] keys [UP] and [DOWN] or turn **DATA ENTRY** knob E. Change the length of the retrig velocity curve using **DATA ENTRY** knob D. The velocity curve of the retrig is set using **DATA ENTRY** knob H. The knob works in a bipolar fashion, spanning the range -128 to 127. Negative velocity values fade out the retrig to the set amount, positive values fade it in. The retrig settings in this menu can also be accessed from the RETRIG menu. However, retrig settings placed on a specific trig on the sequencer via the pop-up menu will override the general retrig settings for the active track.

11.5 TRACK MENU

Settings and options for the active track are found in this menu. Open the menu by pressing [FUNC] + [CHRO]. Browse the list using the [UP]/[DOWN] arrow keys or the **TRACK LEVEL** knob. Select by pressing [YES]. Change the track that will be affected by pressing the [TRK] key + one of the [PADS].



TRIGS SETUP will take you to the TRIGS SETUP menu for the active track. See section “11.8 TRIGS SETUP MENU” on page 45.

PAD SCALE opens the PAD SETUP menu. The **PAD SCALE** parameter lets you set the active track's pad scale. This setting governs which notes are playable on the [PADS] in CHROMATIC mode to allow only notes in the set scale. All the [PADS] trigger a note. **[PAD 1]** plays the lowest note of the selected octave, root note and scale. The notes are then played upwards through the scale to **[PAD 12]**. When a scale contains less than eight notes in an octave, the “unlit” [PADS] on a lower row will play the same notes as the first lit [PADS] on the row above. For a list of all selectable pad scales, please see “APPENDIX E: PAD SCALES” on page 110. **ROOT NOTE** sets the root note for the chosen scale. **PER PATTERN** lets you set if the pad scale settings should apply to all the tracks in the pattern or just the active track. For more information, please see “7.1.3 CHROMATIC MODE” on page 19, and “APPENDIX E: PAD SCALES” on page 110.

RELOAD TRACK will reload the active track. Since tracks are a part of patterns which are automatically saved, it will either be reloaded to its original auto-saved state or to a specifically saved state which can be determined by utilizing the **SAVE TRACK** command. Press [NO] + [CHRO] for a shortcut to the **RELOAD TRACK** command.

SAVE TRACK will save changes made to the active track. This is a special feature available in addition to the general, automatic, saving of patterns which occur when patterns are changed. The feature is useful in situations where an individual track is being worked on, the results are desirable, and you want to keep on working with the track while having the ability to revert it to a specifically saved state. The **SAVE TRACK** command makes this possible. When reloading the track, it will not be reloaded to its original, pattern auto-saved, state, but to the manually saved state. Press [YES] + [CHRO] for a shortcut to the **SAVE TRACK** command.

11.6 PATTERN MENU

In the PATTERN menu patterns can be saved and reloaded. Open the menu by pressing [FUNC] + [SCNE]. Select between the available commands by using the [UP]/[DOWN] arrow keys. Confirm selections with [YES].



RELOAD PATTERN will reload the active pattern. It will either be reloaded to its original auto-saved state or to a specifically saved state which can be determined by utilizing the **SAVE PATTERN** command.

Press **[NO]** + **[SCNE]** for a shortcut to the **RELOAD PATTERN** command.

SAVE PATTERN will save changes made to the active pattern. This is a special feature available in addition to the general, automatic, saving of patterns which occur when patterns are changed. The feature is useful in situations where a pattern is being worked on, the results are desirable, and you want to keep on working with the pattern while having the ability to revert to a specifically saved state. The **SAVE PATTERN** command makes this possible. When reloading the pattern, it will not be reloaded to its original, auto-saved, state, but to the manually saved state. Press **[YES]** + **[SCNE]** for a shortcut to the **SAVE PATTERN** command.



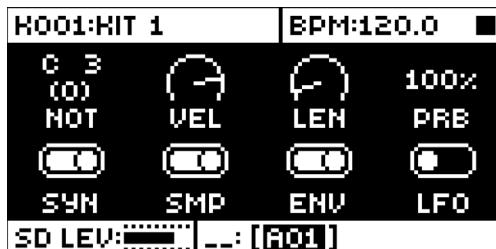
The **RELOAD PATTERN** command is great when improvising live. Any changes made to the active pattern, like adding bass line notes or similar, can immediately be undone.

11.7 TRIG MENU

This menu has two pages. The first page lets you set what the notes triggered by the sequencer will do. The second page is dedicated to the euclidean sequencer mode.

11.7.1 TRIG MENU PAGE 1

Set the actions for when a note is triggered in the TRIG menu. Press the **[TRIG]** key once to access the menu. Change settings using the **DATA ENTRY** knobs. These general settings affect note trigs placed on the sequencer. On any step of the pattern, trigs may be locked to other settings by first pressing and holding a **[TRIG]** key, then changing the settings. Setting SYN and SMP to zero on a note trig turns it into a lock trig. Note that the TRIG settings are stored along with the active pattern, not to the active kit.



NOT sets the pitch of the note when triggered, ranging from -24 to 24. When LIVE RECORDING and playing in CHROMATIC mode, the pitch of the **[PADS]** played will override this setting.

VEL sets the velocity at which the note trig on the sequencer is triggered, 1 to 127. This velocity is used when triggering with **[FUNC]** + **[PADS]** or with the **[TRIG]** keys or with the pads in FIXED VELOCITY mode and the fixed velocity set to AUTO. In LIVE RECORDING mode, the velocity at which the **[PADS]** are tapped will override this setting.

LEN sets the length of the note trig. Again, in LIVE RECORDING mode, the duration of pressing the **[PADS]** overrides this general setting.

PRB Trig Probability sets the probability that the trigs on the track plays or not. The probability outcome is re-evaluated every time a trig is set to play. The default setting is 100%, meaning that all the trigs on the track plays every time. (0%-100%)

This parameter changes temporarily to display and control **TRC** (Trig Condition) when you add a conditional lock. **TRC** sets the Trig Condition with which a set of conditional rules can be applied to any trig, using a parameter lock. For more information, please see "11.12.3 CONDITIONAL LOCKS" on page 48.



If you have placed a conditional lock on a trig in the sequencer, the trig condition overrides the Trig Probability setting. For example, if you set PRB to 70% and a FILL trig condition on a trig, that trig will only (and always) play when the sequencer is in FILL mode. For more information, please see “11.12.3 CONDITIONAL LOCKS” on page 48

SYN controls if the synth part of the Sound will be triggered.

SMP controls if the sample part of the Sound will be triggered.

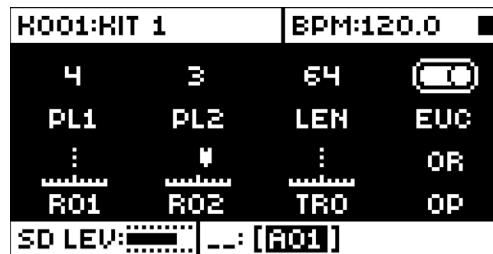
ENV controls if the filter envelope will be triggered.

LFO controls if the LFO will be triggered.

11.7.2 TRIG MENU PAGE 2 (EUCLIDEAN SEQUENCER)

The Euclidean sequencer mode uses two separate pulse generators to generate events (trigs) that are placed as evenly spread out over the sequencer track as possible. In addition to this you can also set a Boolean logic operator to combine or subtract the trigs from the two pulse generators in different ways.

When you turn on Euclidean mode for a track, the **[REC]** button will turn purple, indicating the mode is active. Any trigs placed on the sequencer before activating the Euclidean mode will be hidden while in this mode, but they'll reappear when you turn the mode off again. If you want to convert an Euclidean sequence into regular sequencer trigs, just press and hold **[FUNC]** while turning the Euclidean mode off. Any earlier placed trigs, while not in Euclidean mode, will be removed. While in Euclidean mode, it is not possible to add note trigs manually to the sequencer. However, you can still do parameter locking on the already generated trigs.



PL1 Pulse generator 1 sets the number of pulses (trigs) placed on the sequencer by this generator.

PL2 Pulse generator 2 sets the number of pulses (trigs) placed on the sequencer by this generator.

LEN Track length sets how many steps the track will have. This parameter is only available in ADVANCED SCALE mode. For more information, please see “11.11 SCALE MENU” on page 46.

EUC Euclidean mode switches the Euclidean sequencer mode on or off.

R01 Rotation generator 1 rotates the trigs placed by generator 1 forward or backwards on the track.

R02 Rotation generator 2 rotates the trigs placed by generator 2 forward or backwards on the track.

TRO Track rotation rotates the trigs placed by both generator 1 and generator 2 forward or backwards on the track.

OP Boolean operator lets you add or subtract the trigs generated from the two pulse generators in different ways based on mathematical logical expressions.

OR all trigs from both generator 1 or 2 are placed the track.

XOR trigs from both generator 1 or 2 are placed on the track unless they are added to the same sequencer step.

AND only trigs added to the same sequencer step by generator 1 and 2 are placed on the track.

SUB trigs from generator 1 are placed on the track unless generator 2 adds a trig on the same step as generator 1.



- If you place any trigs in normal sequencer mode, when you switch to Euclidean mode, these trigs will be distributed according to the settings.
- In Euclidean mode, please note that if you press any already placed trigs, they will remain in regular sequencer mode when you switch Euclidean mode off.

11.8 TRIGS SETUP MENU

Access the menu by pressing [FUNC] + [TRIG]. Navigate the menu using the [UP]/[DOWN] arrow keys or the **TRACK LEVEL** knob. Change settings with the [LEFT]/[RIGHT] arrow keys or any of the **DATA ENTRY** knobs.



GLOBAL QUANTIZE will affect all micro-timed trigs of all tracks. The higher the quantize value, the more all micro-timed trigs will be quantized. Range 0-127.

TRK QUANTIZE will affect all micro-timed trigs of the active track. The higher the quantize value, the more all micro-timed trigs will be quantized. Range 0-127.

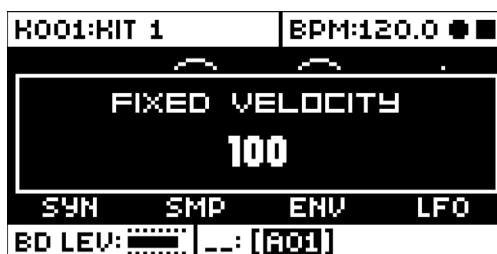
TRK SEND MIDI will, when checked, send the tracks note on/off (NOT, LEN) and VEL, sequencer data to the Analog Rytm MKII's MIDI OUT for control of external MIDI devices. The MIDI data is sent on the track's MIDI channel that is set in the CHANNELS menu. For more information, please see "14.4.3 CHANNELS" on page 63.



- If TRK SEND MIDI is checked, the track sends the sequencer data both externally over MIDI and internally to the tracks sound.
- Only the sequencer data for note on/off (NOT, LEN) and VEL parameters are sent over MIDI.

11.9 FIXED VELOCITY

Press [FIX] to enable the FIXED VELOCITY mode for the pads and set them to trig with a fixed velocity. Press [FUNC] + [FIX] to access the menu where you can adjust the fixed velocity amount.



Set the fixed velocity amount, by turning the **TRACK LEVEL** knob or by pressing [ARROW] keys [UP] or [DOWN]. The default setting is 100. The AUTO setting sets the fixed velocity to the default velocity as specified by the VEL parameter in the TRIG menu. For more information, please see "11.7 TRIG MENU" on page 43.

11.10 CLICK TRACK

The CLICK TRACK menu controls the internal metronome of Analog Rytm MKII. Open the menu by pressing [FUNC] + [RTRG]. Use the [UP]/[DOWN] arrow keys or the **TRACK LEVEL** knob to scroll through the list of settings. Press [LEFT]/[RIGHT] or any of the **DATA ENTRY** knobs to change the highlighted setting.



ACTIVE activates/deactivates the metronome. It is also possible, outside of this menu, to keep **[FUNC] + [RTRG]** pressed for a second to toggle the metronome click on and off.

TIME SIG. NUM controls the note measure of the metronome time signature.

TIME SIG. DEN controls the beat measure of the metronome.

PREROLL controls for how many bars the metronome will sound before the sequencer starts playing. This setting is only relevant when **LIVE RECORDING** mode is initiated.

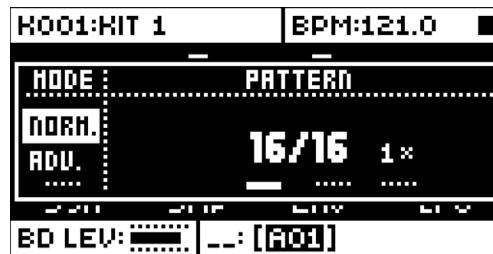
VOLUME controls the volume of the click.

11.11 SCALE MENU

The length and timing of the pattern can be changed on this screen. Two modes exist in the **SCALE** menu. In **NORMAL** mode all tracks share the same length. In **ADVANCED** mode each track can have different lengths. Access the **SCALE SETUP** menu by pressing **[FUNC] + [PAGE]**. Use the **[LEFT]** and **[RIGHT]** arrow keys to select between the available settings. Use the **[UP]** and **[DOWN]** keys to adjust the different settings and to select between the two modes.

11.11.1 NORMAL MODE

This is the default mode. In this mode, all tracks of the pattern share the same length and time signature. This screen will appear when the **NORMAL** setting is active.



The TRACK column sets the step length and time signature scale of the track. It works just like setting the pattern length and scale in NORMAL mode. The settings will only affect the active track. Press the [TRK] + [PADS] to select the track whose settings will be edited.

The MASTER column is only available in ADVANCED mode. Here the master length, the master change length and the general time signature of the pattern are set.

LEN controls the amount of steps the pattern will play before all tracks are restarted. An INF setting will make the tracks of the pattern loop infinitely, without ever being restarted. Note that this setting also affects for how long the active pattern will play before a chained pattern starts playing. This can be overridden by the **CHNG** parameter.

CHNG controls for how long the active pattern will play before a cued or chained pattern will begin to play. This setting is important when for example LEN is set to INF. If no CHNG setting is made, the pattern will play infinitely, and the next pattern will thus not be cued. By default a cued pattern change happens at the end of the pattern (**CHNG** set to OFF)

MASTER SCALE is the rightmost setting. It sets the general time signature of the pattern.



If INF is selected, the active pattern will play infinitely, making it impossible to change to another pattern (when SEQUENTIAL pattern play mode is used).



Press [FUNC] + [UP]/[DOWN] to set the lengths in increments of 16.

11.12 SEQUENCER FEATURES

11.12.1 PARAMETER LOCKS

Parameter locks enable all trigs to have their unique parameter values. The note trigs of a drum track can have, for example, different pitch, amp or filter settings. All parameters found on the PARAMETER pages are possible to parameter lock, and parameter locks can be applied to all types of tracks. Additionally, all settings on the TRIG page may be locked (see “TRIG MENU” on page 38). For an overview of all parameters on the PARAMETER pages, check out “APPENDIX A: DRUM TRACK PARAMETERS” on page 77.

To apply parameter locks in GRID RECORDING mode, press and hold the [TRIG] key of a trig. Adjust the parameters you want to lock using the **DATA ENTRY** knobs. The graphics in the screen will become inverted for the locked parameter and the locked parameter value will be displayed. The [TRIG] key of the locked trig will begin to flash rapidly, indicating the trig now contains a parameter lock. Remove a single parameter lock by holding [TRIG] + pressing the **DATA ENTRY** knob of the locked parameter. By removing a note trig and entering it again, all parameter locks will be erased from the trig.

In CHROMATIC mode, a note pitch parameter lock will be shown with a red color pad when you press and hold the [TRIG] key containing such a lock.

In LIVE RECORDING mode, turning a **DATA ENTRY** knob, or playing the [PADS] in CHROMATIC mode, will input parameter locks to the active track. Note trigs will be locked accordingly, and lock trigs containing the locks will be placed on the sequencer steps not containing note trigs.

To remove all the parameter locks of the active track while LIVE RECORDING mode is active and the sequencer is running, press and hold [FUNC] + [NO]. All steps reached on the pattern playing will be erased. Sound locks will not be erased.

To remove specific parameter locks in real time, while LIVE RECORDING mode is active and the sequencer is running, press and hold [NO] and then press the **DATA ENTRY** knob corresponding to the parameter that will be removed.

To erase the recorded trigs on a specific track (or on several tracks) while LIVE RECORDING mode is active and the sequencer is running, press and hold [NO] + one (or several) of the [PADS]. All steps reached on the pattern playing will be erased. Sound locks will not be erased.



- Up to 72 different parameters can be locked in a pattern. A parameter counts as one (1) locked parameter no matter how many trigs that lock it. If for example the cutoff parameter of the filter is locked on every sequencer step, there are still 71 other parameters that can be locked.
- In GRID RECORDING mode, if you press and hold a trig that contains parameter locks, the [PARAMETER] page keys lights up to show where parameters with parameter locks applied resides.

11.12.2 SOUND LOCKS

All drum Sounds in the Sound pool of the active project can be changed per sequencer step. Press and hold a note trig and turn the **TRACK LEVEL** knob. The Sound pool list will appear. Scroll the list using the **TRACK LEVEL** knob, select the Sound you want to assign to the note trig and then release the [TRIG] key. The [TRIG] key will start to flash. Press and hold the [TRIG] key of the note trig to show the assigned Sound.



Remember, all Sounds may not be loaded to all tracks. If a Sound in the list is incompatible with the active track, it may not be sound locked. When browsing the Sound pool, Sounds that are incompatible with the active track are shown with a flashing (!) symbol on the screen. As are empty Sound pool slots.



The first position in the Sound pool list, titled **TRACK SOUND**, is the default selection. It will play the corresponding track Sound of the active kit.

11.12.3 CONDITIONAL LOCKS

On the TRIG PARAMETERS page, there is a parameter called **TRC** (Trig Condition) with which a set of conditional rules can be applied to any trig, using a parameter lock. You access this parameter by pressing and holding a trig. The **TRC** parameter temporarily replaces the **PROB** parameter while you keep the trig key pressed. Each setting is a logical condition that determines whether a trig set on a track in the sequencer is triggered or not. If the condition is true, then the trig becomes active and affect the track. If the condition is false, the trig is ignored. You must first place a note trig or lock trig on the sequencer step to where you want to apply a conditional lock.

The sequencer needs to be in FILL mode to activate the conditional lock called FILL. For more information, please see “11.12.4 FILL MODE” on page 49.

You can set the following trig conditions:

X% is a probability condition. There is an X% chance that the trig will be active.

FILL is true (activates the trig) when FILL mode is active (see above).

FILL is true when FILL is false. A trig with this trig condition is active when you are not in FILL mode.

PRE is true if the most recently evaluated trig condition on the same track was true. (**PRE** and **PRE** conditions are ignored and not evaluated.)

PRE is true when PRE is false. A trig with this trig condition is active if the most recently evaluated trig condition on the same track was not true. (**PRE** and **PRE** conditions are ignored and not evaluated.)

Example 1: Trig 1, 50% = **True** > Trig 2, **PRE** = **False** > Trig 3, **PRE** = **False** > Trig 4, **PRE** = **True**

Example 2: Trig 1, 50% = **False** > Trig 2, **PRE** = **True** > Trig 3, **PRE** = **True** > Trig 4, **PRE** = **False**

NEI is true if the most recently evaluated trig condition on the neighbor track was true. (**PRE** and **PRE** conditions on the neighbor track are ignored and not evaluated.) The neighbor track is the track before the active track. For example, track 3 is the neighbor track of track 4. NEI and NEI conditional trigs on track 4 evaluate the conditional trigs placed on track 3. The NEI condition is false if no conditional trigs exist on the neighbor track.

NEI is true when NEI is false. A trig with this trig condition is active if the most recently evaluated trig condition on the neighbor track was not true. (**PRE** and **PRE** conditions on the neighbor track are ignored and not evaluated.)

1ST is true the first time the pattern plays (when looped).

1ST is true when 1ST is false. A trig with this trig condition is always active apart from the first time the pattern plays (when looped).

A:B **A** sets how many times the pattern (or track, if the track length is shorter than the pattern length) plays before the trig condition is true. **B** sets how many times the pattern (or track, if the track length is shorter than the pattern length) plays before the count is reset and starts over again. This cycle then repeats until you stop the sequencer.

For example:

With the setting 1:2, the trig condition is true the first time the pattern plays and then the third, the fifth, and so on.

With the setting 2:2, the trig condition is true the second time the pattern plays and then the fourth, the sixth, and so on.

With the setting 2:4, the trig condition is true the second time the pattern plays and then the sixth, the tenth, and so on.

With the setting 4:7 the trig condition is true the fourth time the pattern plays and then the eleventh, the eighteenth, and so on.



- Conditional parameter locks are a great way to add variety to a pattern. To set up a grid of mutually exclusive or conclusive note trigs across any of the synth tracks, and throwing some probability locks in there as well is a neat way to make the most minimal of compositions come alive with randomness.
- Note that random or arbitrary variety is not the only way of using conditional trigs. They may also be used, for example, to have two different melodic or percussive sequences on the same track, one of which is activated only when FILL mode is active.

11.12.4 FILL MODE

FILL mode can be used to create a temporary variation, such as a drum fill, in your pattern.

Press [FUNC] + [FILL] to cue FILL mode for one pattern cycle. [FILL] starts to flash to indicate that FILL mode is cued. FILL mode will become active ([FILL] shines with a steady light) when the pattern loops, and remain active until the pattern loops again. You can also activate FILL mode at any time, and for any duration, by pressing and holding the [FILL] key when the pattern is playing (GRID RECORDING mode cannot be active). The FILL mode is active for as long as the key is held.

Press and hold [FUNC] and double-press [FILL] to latch FILL mode. Press [FILL] again to unlatch FILL mode. The [FILL] key lights up blue when FILL mode is latched on.

11.12.5 TRIG MUTE

The TRIG MUTE menu allows you to add mute masks on a sequencer pattern. Each track can have its own trig mute trigs. Open the menu by pressing [FUNC] + [BANK E]. When you open the TRIG MUTE menu, the [TRIG] keys with previously placed note trigs lights up light green and trigs with added trig mute lights up with a darker green.

When this menu is active, place or remove trig mute trigs by pressing the [TRIG] keys. If a trig mute trig is placed on the same sequencer step as a note trig, the note trig will be muted.



If you wish to edit the step property on all tracks simultaneously, not just the active track, press and hold [FUNC] key and then enter the trigs.

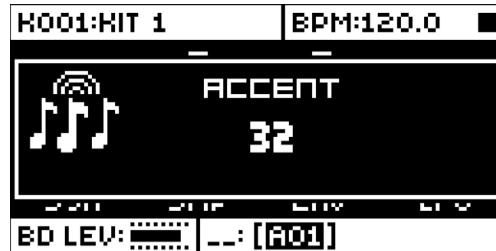


- Trig mutes can be quickly added to note trigs or lock trigs. Keep the note trig or lock trig pressed and press [BANK E]. A trig mute trig will automatically be placed on the same sequencer step as the note trig/lock trig.
- Press a note trig/lock trig to quickly see if a trig mute trig is placed on the same sequencer step as the trig. If that is the case, the [BANK E] key will light up.
- Trig mutes are good for experimenting with the feel of tracks when playing live. The last eight steps of a bass line track could, for example, be muted to build suspense.

11.12.6 ACCENT

Adding accent trigs is useful for quickly changing the velocity for chosen steps of a track. Accent level is a destination for modulation, which means it can be affected by, for example, LFOs. Press [FUNC] + [BANK F] to open the ACCENT menu. When you open the ACCENT menu, the [TRIG] keys with previously placed note trigs lights up light magenta and trigs with added accent lights up with a darker magenta.

When this menu is active, place or remove accent trigs by pressing the [TRIG] keys. If an accent trig is placed on the same sequencer step as a note trig, the note trig will be accentuated.



Select the track that will be affected by pressing the corresponding [TRK] key. Select the accent value by turning the **TRACK LEVEL** knob. The higher the value, the more accentuation will be added to accent trigs. If you wish to edit the step property on all tracks simultaneously, not just the active track, press and hold [FUNC] key and then enter the trigs.

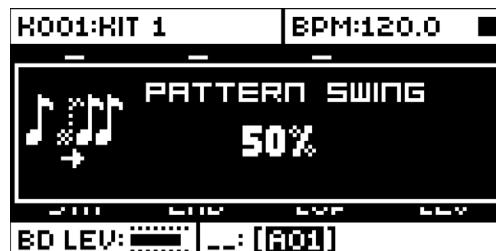


- A note trig can be quickly accented. Keep the note trig pressed and press [BANK F]. An accent trig will automatically be placed on the same sequencer step as the note trig.
- Press a note trig/lock trig to quickly see if an accent trig is placed on the same sequencer step as the trig. If that is the case, the [BANK F] key will light up.

11.12.7 SWING

Adjust the swing setting of the pattern, to employ a propulsive, rhythmic groove. Access this menu by pressing [FUNC] + [BANK G]. When you open the SWING menu, the [TRIG] keys with previously placed note trigs lights up light yellow and trigs with added swing lights up with a darker yellow.

When this menu is active, place or remove swing trigs by pressing the [TRIG] keys. If a swing trig is placed on the same sequencer step as a note trig, the note trig will be affected by swing.



Set the SWING ratio to 51-80%, by turning the **TRACK LEVEL** knob or by pressing [ARROW] keys [UP] or [DOWN]. The default setting is equal spacing, 50%. Customize the swing pattern, shown by lit [TRIG] keys, using the [TRIG] keys.

11.12.8 PARAMETER SLIDE

The PARAMETER SLIDE menu makes it possible for the parameter values of two separate note trigs or lock trigs of a track to slide between each other. Open the menu by pressing [FUNC] + [BANK H]. When you open the PARAMETER SLIDE menu, the [TRIG] keys with previously placed note trigs lights up light blue and trigs with added parameter slide lights up with a darker blue.

When this menu is active, place or remove parameter slide trigs by pressing the [TRIG] keys. If a parameter slide trig is placed on the same sequencer step as a note trig, the note trig will have a parameter slide. If you wish to edit the step property on all tracks simultaneously, not just the active track, press and hold [FUNC] key and then enter the trigs.



For a parameter value to slide between two trigs, it needs to be locked on one of the trigs. A locked parameter value will slide to the unlocked value and vice versa. To make the parameter value slide, place a slide trig on the same sequencer step as the trig whose parameters you want to slide. The speed of the

slide is relative to the current tempo, and the slide is completed when the next trig is reached. Several parameter values can slide at the same time.



- Parameter slides can be quickly added to note trigs or lock trigs. Keep the note trig or lock trig pressed and press [BANK H]. A parameter slide trig will automatically be placed on the same sequencer step as the note trig/lock trig.
- Press a note trig/lock trig to quickly see if a parameter slide trig is placed on the same sequencer step as the trig. If that is the case, the [BANK H] key will light up.

11.12.9 COPY, PASTE, AND CLEAR OPERATIONS

Patterns, track pages, tracks, and trigs can be copied, pasted and cleared.

The active pattern can be copied to either another location in the same bank or to a location in another bank. To perform a pattern copy operation, GRID RECORDING mode must be inactivated. Copy the pattern by pressing [FUNC] + [RECORD]. Select another pattern and paste the copied pattern to this location by pressing [FUNC] + [STOP]. The operation can be undone by pressing [FUNC] + [STOP] again. Clear a pattern by pressing [FUNC] + [PLAY]. Undo the operation by repeating the key presses.

After selecting a pattern, and before releasing any key, [RECORD], [PLAY] and [STOP] can be pressed to copy, clear or paste patterns.

Individual sequencer tracks can be copied, pasted and cleared in the same way as patterns. To do so, GRID RECORDING mode needs to be active.

A single track page may also be copied, pasted and cleared. It is similar to copying/pasting/clearing a track, but will only affect the active track page. GRID RECORDING mode needs to be active. Select the track page of choice by pressing the [PAGE] key. Copy by pressing [PAGE] + [RECORD]. Select a new track page and press [PAGE] + [STOP] to paste. Undo by pressing [PAGE] + [STOP] again. Press [PAGE] + [PLAY] to clear the active track page. Undo the operation by repeating the key presses.

Trigs, complete with all parameter lock settings, can be copied, pasted and cleared as well. GRID RECORDING mode needs to be active to access this functionality.

1. Press and hold one or several trigs and press [RECORD] to perform the copy operation.
2. Press and hold the [TRIG] key to where you want to paste your trig(s), and then press [STOP] to paste the trig(s). When pasting multiple trigs, the copied trigs are placed in the same relation to each other as they had when they were copied. The destination trig acts as the starting point for the sequence of copied trigs.
3. Clear trig locks by holding one or more trigs and press [PLAY].

11.12.10 QUICK SAVE AND RELOAD COMMANDS

Kits, Sounds, tracks, patterns, and songs can instantly be saved and reloaded. When reloading, settings will revert to their saved state.

- To quick save a kit, press [YES] + [PLAY MODE]. This command is the same as the SAVE KIT command found in the KIT menu, see “10.2 KIT MENU” on page 26.
- To quick save the track Sound of the active track, press [YES] + [MUTE]. This command is the same as the STORE TRACK SOUND command found in the SOUND MANAGER menu, see “10.5.2 SOUND MANAGER” on page 32.
- To quick save a track, press [YES] + [CHRO]. The operation is the same as the SAVE TRACK command, see “11.5 TRACK MENU” on page 42.
- To quick save the active pattern, press [YES] + [SCNE]. The operation is the same as the SAVE PATTERN command, see “11.6 PATTERN MENU” on page 42. This is useful to create a restore point before you start a session of live tweaking that might not turn out the way you want.
- To quick save a song, press [YES] + [PERF]. The command is the same as the SAVE command found in the SONG menu, see “12.2.4 SONG MENU” on page 55.
- To quick reload a kit, press [NO] + [PLAY MODE]. This command is the same as the RELOAD KIT command found in the KIT menu, see “10.2 KIT MENU” on page 26. This is useful in a live situation after a kit has been subject to improvised changes.
- To quick reload the track Sound of the active track, press [NO] + [MUTE]. This is the same as kit reload, but only on the active track (not all tracks).
- To quick reload a track, press [NO] + [CHRO]. The operation is the same as the RELOAD TRACK command, see “11.5 TRACK MENU” on page 42.

- To quick reload the active pattern, press **[NO]** + **[SCNE]**. The operation is the same as the RELOAD PATTERN command, see “11.6 PATTERN MENU” on page 42. Only useful until another pattern is selected, as an undo operation after live changes.
- To quick reload a song, press **[NO]** + **[PERF]**. The command is the same as the RELOAD command found in the SONG menu, see “12.2.4 SONG MENU” on page 55.

12. CHAINS AND SONGS

Chains are sequences that consist of one or more patterns. Chains are used to form songs.

256 pattern entries are available to the 64 chains. For example, one chain can consist of 256 patterns or two chains can consist of 128 patterns each.

One song is always active and worked on. Songs contain two main forms of entries, song rows, and a scratch pad row. The active song row is visible in the bottom left part of the LCD. If a scratch pad row is active, the graphics will show “_:_”. The scratch pad row is by default placed after all song rows.

Each song row contains a chain. These entries are saved together with the song. The scratch pad row also contains a chain or a pattern and is also saved as part of the song. The purpose of the scratch pad row is to enable experimentation with chains and patterns without affecting already programmed song rows.

12.1 CHAINS

If the active song row or scratch pad row contains a chain, all patterns of the chain will be played when activating the CHAIN mode by pressing [CHAIN MODE] . When deactivating the mode, and SONG mode is not active, the currently active pattern will be played over and over. The active pattern, and any other patterns in the chain are visible at the bottom of the screen. The active pattern is shown with inverted color.

There are two ways to create chains: Detailed chain mode and Quick chain mode.

12.1.1 DETAILED MODE

CHAIN mode must be active if you want to create chains in detailed mode. Create chains in detailed mode by pressing [CHAIN MODE] + [LEFT]/[RIGHT] to move the chain cursor. It can either be placed before a pattern, on a pattern or after a pattern. If the cursor is placed before a pattern and a new pattern is selected by pressing [BANK] + [TRIG], the selected pattern will be inserted before the pattern located after the cursor. If the cursor is highlighting a pattern and a new pattern is selected, the highlighted pattern will be replaced. When activating CHAIN mode, the patterns in the chain will be played in sequence. The chain will be looped once the final pattern of the chain has played.

12.1.2 QUICK MODE

To create chains in quick mode, press [BANK] and then press the [TRIG] key for the pattern you want the chain to start with. As long as you keep the first [TRIG] key pressed, subsequent [TRIG] keys pressed will add patterns to the chain. In quick mode, it is only possible to chain patterns from the same bank. Please note that the previous chain will be erased when using quick mode. PATTERN mode must be set to SEQUENTIAL if you wish to create chains in quick mode.

Pressing [CHAIN MODE] + [NO] will, depending on the location of the chain cursor, either erase the pattern located before the cursor or the one highlighted by it.

Pressing [FUNC] + [CHAIN MODE] will create a new, blank, scratch pad row. The scratch pad row will be placed at the very bottom of the song row list (which can be seen when opening the SONG EDIT menu). The content of the previous scratch pad row will be added as a new song row following the last song row. See SONG EDIT MENU on how to relocate song rows (including the scratch pad row) within the song.



CHAIN mode is ideal when improvising live. When CHAIN mode is deactivated and only the currently active pattern is looping, create a chain and then activate CHAIN mode. At any time, exit CHAIN mode to loop one pattern only. Add and remove patterns to create a completely new chain and activate CHAIN mode again. By creating new chains through pressing [FUNC] + [CHAIN MODE], improvised songs can quickly be created.

12.2 SONGS

Songs are essentially patterns and chains structured to form a longer sequence. To enter SONG mode, press the [SONG MODE] key. The [SONG MODE] key will light up, indicating SONG mode is active. The active song will start to play, row by row. If the active song row is the scratch pad row (in its bottom-of-the-stack default position) it will play through its chain of patterns once, then stop. If the scratch pad row has been moved within the song, it will play the following song row. The song row playing is shown in the lower left corner of the screen.

12.2.1 SONG EDIT MENU

Songs are created in the SONG EDIT menu, which is accessed by pressing [FUNC] + [SONG MODE].



Songs are played row by row, starting from the top and moving towards the bottom. If a song row contains a chain, all patterns in the chain will play before the song play position moves to the next row. The song play position is shown with inverted pattern number graphics. In the top right corner of the screen, the BPM and the amount of played bars and beats is shown.

To navigate between song rows as well as patterns assigned to the song rows, use the [ARROW] keys. When the song cursor highlights a pattern position, the pattern number becomes enclosed by a square. When the song cursor is placed before or after a pattern, it will form a thin line.

To start playing a Song from the beginning, double-press [STOP]. The song play position will automatically be moved to the first pattern of the first song row. Songs can, however, start playing from any pattern position. Highlight a pattern position by moving the song cursor using the [ARROW] keys. Press [YES] to select this position. The graphics will become inverted, indicating this is the song play position. Press [PLAY] to start playing the Song from this position.



Copy, paste, and clear commands can be executed on the song rows.

12.2.2 ADDING SONG ROWS AND ASSIGNING PATTERNS AND CHAINS

Press [FUNC] + [YES] to add a song row. The new song row will be inserted below the row on which the cursor is, and the pattern A01 will automatically be assigned to the new row. To assign another pattern to the song row, use the [ARROW] keys to move the song cursor so the pattern assigned to the row becomes highlighted and then press a [BANK] key + a [TRIG] key. In general, the pattern assigning procedure is the same as when selecting a pattern, covered in the section “11.1.1 SELECTING A PATTERN” on page 37.

To add a chain to a song row, select a song row and press the [RIGHT] arrow key. The song cursor will move from the pattern position and form a thin, standing line. Press a [BANK] key + a [TRIG] key to select the pattern that will be added to the chain.

Remove a pattern in a chain by highlighting it with the song cursor and pressing [FUNC] + [NO].

If a song row contains a chain, individual patterns can be rearranged in the chain. Select the pattern by highlighting it with the song cursor and press [FUNC] + [LEFT]/[RIGHT].

Move a song row up or down in the song by moving the song cursor to the song row and pressing [FUNC] + [UP]/[DOWN].

Erase a song row, one pattern at a time, by pressing [FUNC] + [NO] repeatedly.

12.2.3 ADDING REPEATS AND MUTES

Various extra information can be entered for song rows and the pattern or patterns assigned to the song rows.

Repeat a song row a chosen number of times by moving to the leftmost position of the song row with the cursor. Turn **DATA ENTRY** knob A to select how many times the song row will be repeated.



You can selectively mute the sequencers tracks of any pattern while in song edit mode. First, make sure MUTE mode is on. If not, press [MUTE] and make sure the [MUTE] key is fully lit. Then, in the song editor, place the cursor on the pattern you wish to mute tracks on using the [ARROW] keys and press [YES]. Press and hold the [SONG MODE] key + press the [PADS] of the drum tracks you wish to mute.



The mute graphics on the bottom right of the screen will show the muted tracks with a (-) symbol. Unmuted tracks are shown as squares. To mute tracks of another pattern in the song, simply move the cursor to that pattern using the [ARROW] keys and press [YES]. Song mutes are pattern specific. Different patterns can have different song muted tracks. Note that it is the pattern at a specific position in the song which will be affected: if for example, pattern A01 is used in multiple places in the song and the top left instance of it is track muted, all other instances of pattern A01 will remain unchanged. To mute the tracks of another pattern position, simply place the cursor on top of it, press [YES] and add mutes as instructed above. In addition to being shown on the screen, muted tracks in a song are also shown with unlit <PADS> when a pattern is highlighted. Unmuted tracks are shown with green-yellow color <PADS>.



When a song contains programmed mutes, the [MUTE] key and the [SONG MODE] and [CHAIN MODE] keys will be dimly lit, whether any of these modes are active or not. This feature is intended to help show that there are active song mutes in one of the patterns. Additionally, whenever a pattern containing song mutes is selected, and MUTE mode is active, the <PADS> sporting programmed mutes will exhibit a dim green color (unless the song muted tracks are already muted in regular MUTE mode, in which case the <PADS> will simply be unlit).



Even outside of SONG EDIT, song mutes may be instantly added to any track of the active pattern in a chain or song. Just activate MUTE mode by pressing the [MUTE] key. Then, as in SONG EDIT, press and hold [SONG MODE] and tap the [PADS] of the tracks you wish to mute.

12.2.4 SONG MENU

In the SONG menu, songs can be saved, loaded renamed et cetera. Access the menu by pressing [FUNC] + [PERF].



RELOAD will reload the active song. It will be restored to its saved version. Press [NO] + [SONG] for a shortcut to this command.

LOAD will open a menu where saved songs can be loaded. The active song is shown with inverted graphics.

SAVE will save the active song to one of the 16 song slots. The active song is shown with inverted graphics. Press [YES] + [SONG] for a shortcut to this command.

CLEAR will clear the active song from all content.

EDIT will open the EDIT menu. It is the same menu as accessed by pressing [FUNC] + [SONG MODE]. See page 47 for more info about this menu.

RENAME will open a menu where the active song can be renamed.

13. SAMPLING

Analog Rytm MKII is also a competent and accessible sampler. It can sample audio from external sources via the AUDIO IN inputs, and it can also sample audio internally from the Analog Rytm MKII itself. The maximum sampling time is 33 seconds.

13.1 SAMPLING MENU

The SAMPLING menu offers settings that control the different aspects of sampling.

Press [SAMPLING]  to access this menu. Use the **DATA ENTRY** knobs to change the parameters.



13.1.1 REC

Press [FUNC] + [YES] to start sampling. Press [YES] to stop sampling.

13.1.2 ARM

Press [YES] to arm the sampler. The sampler is now in arm mode and it will start sampling when the incoming audio exceeds the threshold level. See below. (Press [SAMPLING] + [NO] to cancel.)

13.1.3 RLEN

Record Length sets the length of the sampling. With a setting of 1-128 steps, the sampling length is decided by the time that it takes the sequencer to advance the set number of steps at the current BPM. With the MAX setting, the sampling continues until max sampling time (33 seconds) is reached or until you press [YES] to stop sampling.



With a BPM set lower than 59, recording the complete 128 steps is not possible because it will take longer than the maximum sampling time. If the device cannot record the entire set length, this is shown by two exclamation marks next to the sample memory time on the screen.

13.1.4 THR

If you have selected to arm the sampler, the sampling begins when the incoming audio signal exceeds the threshold setting. Set the threshold high enough so that it is not triggered by background noise, but low enough that you capture all of the signal.

13.1.5 SRC

Source selects between different audio sources to sample from.

- **AUD L+R** sets the input source to sample external audio through the AUDIO IN L+R inputs. The audio is summed together to mono.
- **AUD L** sets the input source to AUDIO IN L.
- **AUD R** sets the input source to AUDIO IN R.
- **BD, SD, RS/CP, BT, LT, MT/HT, CH/OH, CY/CB** sets the input source to the internal audio from the separate drum tracks.
- **MAIN** sets the input source to the internal MAIN L+R channels. The audio is summed together to mono.
- **USB L+R** sets the input source to sample external audio (from both left and right channel) through the USB input. The audio is summed together to mono.
- **USB L** sets the input source to sample external audio from only the left channel of the incoming audio from the USB input.
- **USB R** sets the input source to sample external audio from only the right channel of the incoming audio from the USB input.

13.1.6 MON

Selects the option to monitor the incoming audio through the Analog Rytm MKII or not.



Please note that in most cases you always monitor the internal audio and this parameter is then not available when you chose the separate drum tracks or MAIN as input sources. However, if your sample source is an individual track that you have routed not to send audio to the MAIN OUT, then the MON parameter is available. For more information, please see "14.6 AUDIO ROUTING" on page 65.

13.2 SAMPLING WITH THE ANALOG RYTM MKII

1. If you use an external audio source, connect it to the Analog Rytm MKII.
2. Press [SAMPLING] to access the SAMPLING menu and then use **DATA ENTRY** knob G to set **SOURCE** to your preferred audio input source.
3. Keep an eye on the audio input meter and play the audio source and make sure that the volume of the audio source is as strong as possible, but without clipping or distorting. If needed, set **MON** to YES to monitor the incoming audio through the Analog Rytm MKII.
4. Again, with an eye on the audio input meter, use **DATA ENTRY** knob F to set **THR** just above the indicated background noise of the audio source (when it is not playing).
5. Press [YES] to arm the sampler and then play the sound source. When the incoming audio signal exceeds the set threshold level, sampling will start.
6. Press [YES] when you want to stop sampling. The Analog Rytm MKII then automatically normalizes the sample.
7. Use the **DATA ENTRY** knobs A and C to set the parameters **TRIM START** and **TRIM END** to trim the sample to the desired length. You can use the **DATA ENTRY** knobs B and D to zoom in and out to make it easier to see where to trim the sample. Press [FUNC] + [YES] to preview the sample. Press [YES] to trim the sample. After you have trimmed the sample, you can press [NO] to untrim the sample if you are not happy with the result.



8. Press [YES] to save the sample.
 9. Name the sample and press [YES] again to confirm the save.
 10. Press one of the [PADS] to select the track to where you want to assign the sample. Press [NO] if you don't want to assign the sample to a track.
- Press [FUNC] + [NO] if you wish to discard the sample.
- Press [NO] to close the SAMPLING menu.

13.3 DIRECT SAMPLING

You can also perform sampling without using the SAMPLING menu. This is achieved by a set of key press combinations. The sampler will use the **SRC** and **THR** settings that were last used.

1. Press [SAMPLING] + [YES] to arm the sampler. The [SAMPLING] key turns yellow. You can also start direct sampling without arming the sampler first. Press [FUNC] + [SAMPLING] to manually start sampling.
2. When the incoming audio signal exceeds the set threshold level (or you manually start direct sampling), the sampling starts, and the [SAMPLING] key turns red.
3. Press [FUNC] + [SAMPLING] to stop sampling. The [SAMPLING] key first turns dim red while normalizing the sample, then green when it is done.

Press [SAMPLING] + [NO] to cancel at any stage of the Direct Sampling process.

14. GLOBAL SETTINGS MENU

The GLOBAL SETTINGS ☰ menu offers settings that affect Analog Rytm MKII on a global level. Global sequencer, MIDI, and track routing settings are made here. Up to four Global slots are available, each with its individual settings.

Access the menu by pressing [GLOBAL SETTINGS]. Scroll the list by using [UP]/[DOWN] or the **TRACK LEVEL** knob. Open a highlighted menu by pressing [YES].

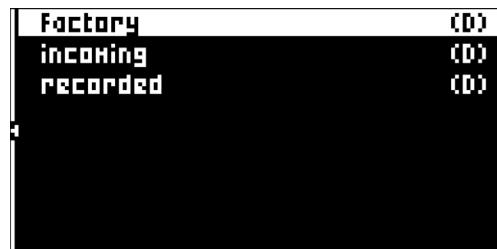


14.1 PROJECT

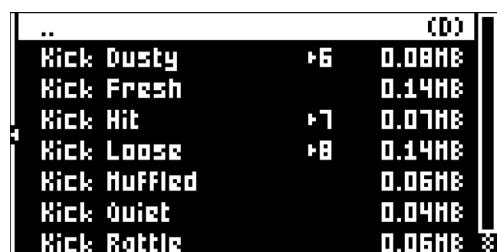
This is where you manage the projects. This menu is described in the section “9. PROJECTS” on page 24.

14.2 SAMPLES

Manage your samples here. On the main screen, seen below, you can access one of three main directories, FACTORY, INCOMING, or recorded. In the FACTORY directory, several preset samples can be found in one of the ten subdirectories. The INCOMING directory, is the default destination for samples sent to the Analog Rytm MKII +Drive storage via the C6 utility software. The RECORDED directory is the default destination for samples that is sampled with the Analog Rytm MKII. Press [YES] to open a directory.



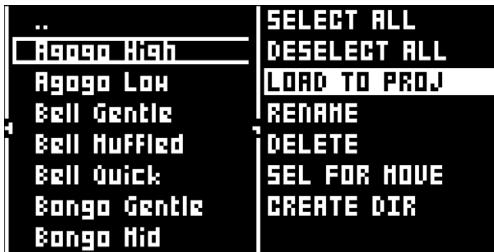
To open a subdirectory, simply highlight it using the [ARROW] keys and press [YES]. To exit a directory and back one step up in the directory hierarchy, select the item labeled “..” at the very top of the screen and press [YES]. Do this repeatedly to return to the top of the directory hierarchy. You can also press [FUNC] + [RIGHT] to open a directory and [FUNC] + [LEFT] to exit a directory and back one step up in the hierarchy. To discern directories from sample files, all directories, including the directory exit row, “..”, are labeled with a (D) at the end of the row. When browsing a directory in the +Drive, a sample assigned to one of the 127 sample slots of the active project has its slot number shown after its name, as seen below.



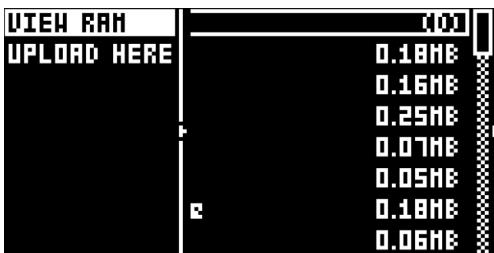
14.2.1 LOADING, UNLOADING AND REPLACING A SAMPLE

The following is an example of how to load one or several of the preset samples to the active project.

First, open the FACTORY directory. Second, open the PERCUSSION directory. Highlight the first sample, “Agogo High” and press [YES] to tick it. Browse the list and tick a few other samples. Any sample may be previewed (played back by the voice of the active track) by first highlighting it and then pressing [FUNC] + [YES]. Circa, ten seconds of the sample will be previewed. Third, press the [RIGHT] arrow key. A menu will appear on the right side of the screen.



Select LOAD TO PROJ and press [YES]. The samples you selected (ticked) will now appear in the first available empty slots out of the 127 user sample slots of the active project. To view the samples currently in the RAM of the active project, press the [LEFT] arrow key twice. This will bring up the left side menu.



Select VIEW RAM and press [YES]. A list will appear, showing all 127 user sample slots. A circle at the right end of the row means that the sample is currently unused in the active project.



On this screen, the 127 samples may be unloaded individually or collectively to empty the slots. Scroll the list using the [ARROW] keys [UP]/[DOWN] or the *TRACK LEVEL* knob. Press [YES] to tick individual samples, or bring up the right-hand menu by pressing [RIGHT] and choose SELECT ALL. On the right-hand menu, select UNLOAD to empty the slots of the ticked samples.



Any sample in the RAM may be individually replaced. Simply highlight the slot containing the sample you wish to replace, open the right-hand menu by pressing [RIGHT] and select REPLACE. Browse the directories of the +Drive, locate the desired sample and press [YES] to place it in the previously highlighted sample slot. If you wish to go back to browsing the +Drive storage directories, press [LEFT] twice and select VIEW +DRIVE.

14.2.2 REMOVING UNUSED SAMPLES FROM RAM

You can use this feature to remove all samples that are not used in any pattern in the project from the RAM memory. The samples are not removed from the +Drive.

1. Press [GLOBAL SETTINGS], and then open the SAMPLES menu.
2. Press the [LEFT] arrow key. A menu will appear on the right side of the screen. Select VIEW RAM and press [YES].

3. Press the [RIGHT] arrow key. A menu will appear on the right side of the screen. Select SELECT UNUSED, and then press [YES].
4. Select UNLOAD. A warning popup will appear asking “UNLOAD X SAMPLES? CONFIRM? Y/N”. Press [YES] to remove all unused samples.

14.2.3 TRANSFERRING SAMPLES FROM A COMPUTER TO ANALOG RYTM MKII

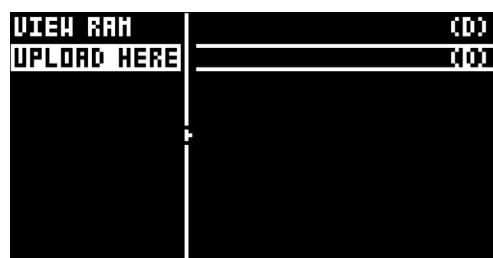
1. Connect the Analog Rytm MKII to the computer via USB.
2. Open the Elektron Transfer software (Available on the Elektron website) on your computer.
3. On the Transfer CONNECTIONS page, set the MIDI IN and OUT ports to your Analog Rytm MKII.
4. In Transfer, click the EXPLORE tab to open the EXPLORE page.
5. On the top right side, in the drop-down menu, select “Samples”.
6. On the top left side in the drop-down menu, make sure “My Computer” is selected.
7. Under “My Computer” navigate to the files or folders you want to transfer.
8. Drag and drop the files or folders to your preferred location on your device. Transfer automatically converts all audio files to 16 bit, 48 kHz, mono audio files, the Analog Rytm MKII’s native audio format.

14.2.4 CREATING A NEW DESTINATION DIRECTORY

Analog Rytm MKII still supports transfer of samples via MIDI Sample Dump Standard (SDS) and Extended SDS using the C6 utility software. The default target directory of samples using this method, if no other is set, is called INCOMING in the +Drive storage of the Analog Rytm MKII.

This procedure is only for when you use the Elektron C6 software transfer tool. If you use Elektron Transfer you create a new destination directory in the Analog Rytm MKII directly from Elektron Transfer.

On the main screen when you view the samples in the +Drive, press [ARROW] key [RIGHT] to access the right side menu. Select CREATE DIR to create a new directory by pressing [YES]. A naming screen will appear. See section “6.5 THE NAMING SCREEN” on page 17. Give your new destination directory an appropriate name. Once the new directory has appeared on the main screen, open it by pressing [YES]. In the initially empty directory, press [ARROW] key [LEFT] to open the left side menu. Highlight UPLOAD HERE and press [YES].



Consequently, samples sent from a computer will be written into the new destination directory. Note that any new or existing directory can be set to be the destination directory in a similar manner, accessing the left side menu, except for the FACTORY directory which is write-protected. Any directory (again, except the FACTORY directory) can be deleted or renamed by highlighting it, accessing the right-hand menu and selecting DELETE DIR or RENAME.

14.2.5 TRANSFERRING SAMPLES TO A COMPUTER FROM ANALOG RYTM MKII

1. Connect Analog Rytm MKII to the computer via USB.
2. Open the Elektron Transfer software (Available on the Elektron website) on your computer.
3. On the Transfer CONNECTIONS page, set the MIDI IN and OUT ports to your Analog Rytm MKII.
4. In Transfer, click EXPLORE to open the EXPLORE page.
5. On the EXPLORE page on the right side under ANALOG RYTM, navigate to the samples you want to transfer
6. Drag and drop the samples to your preferred folder under MY COMPUTER.



- Make sure you have the latest version of the Elektron Transfer software installed on your computer. You can download the free Transfer software and the Transfer User Manual from the Support section of the Elektron website.
- If MIDI+USB is selected in the INPUT FROM and/or OUTPUT TO settings on the PORT CONFIG menu, MIDI data transfers will limit the USB speed. When sending or receiving large chunks of data, make sure you use only the USB setting.

14.3 GLOBAL SLOT

Selects which of the four Global slots to use. Select the active slot by using the [LEFT]/[RIGHT] arrow keys. Press [YES] to confirm the selection. All changes made to a Global slot are automatically saved. A slot stores the current configuration of the sequencer, MIDI and track routing settings. All changes made to a Global slot are automatically saved.

14.4 MIDI CONFIG

In this menu, various sub-menus dealing with the MIDI functionality of Analog Rytm MKII are found.



14.4.1 SYNC

Controls how Analog Rytm MKII receives and sends MIDI clock and transport commands. Change settings by using the [LEFT]/[RIGHT] arrow keys or the [YES] key.



CLOCK RECEIVE will when active make Analog Rytm MKII respond to MIDI clock sent from external devices.

CLOCK SEND will when active make Analog Rytm MKII transmit MIDI clock.

TRANSPORT RECEIVE will when active make Analog Rytm MKII respond to system real-time messages like play, stop, continue and song position pointer.

TRANSPORT SEND will when active make Analog Rytm MKII send out system real-time messages like play, stop, continue and song position pointer.

PRG CH RECEIVE will when active make Analog Rytm MKII respond to incoming program change messages, which is useful when wanting to select patterns externally. The MIDI channel that will listen to incoming program change messages is set in the MIDI CHANNELS menu. For more information, please see “14.4.3 CHANNELS” on page 63.

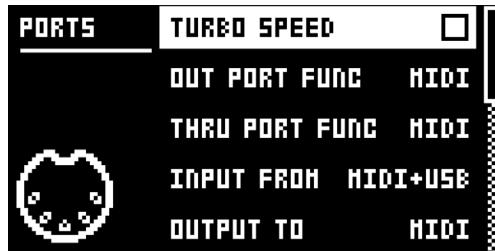
PRG CH SEND will when active send program change messages when patterns are changed. The MIDI channel that will send program change messages is set in the MIDI CHANNELS menu, covered on page 56.



If both **CLOCK RECEIVE** and **TRANSPORT RECEIVE** are activated, the Analog Rytm MKII will wait for MIDI clock after receiving start or continue messages for 16 seconds before considering external sync lost. This, for example, allows for preroll in sequencers not starting clock until preroll is completed. If only **TRANSPORT RECEIVE** is enabled the machine will start as soon as possible after receiving start or continue.

14.4.2 PORT CONFIG

MIDI port related settings are found in this menu. Use the [LEFT]/[RIGHT] arrow keys to change settings.



TURBO SPEED press [YES] to start the turbo speed negotiation. Speed is chosen automatically. Please note that you must use a MIDI interface that supports the Turbo-MIDI protocol.

OUT PORT FUNCTIONALITY selects what type of signal the MIDI OUT port will send.

- MIDI makes it possible for the port to send out MIDI data.
- DIN 24 will make the port send DIN 24 sync pulses. No MIDI data is sent on the port when this option is selected.
- DIN 48 will make the port send DIN 48 sync pulses. No MIDI data is sent on the port when this option is selected.

THRU PORT FUNCTIONALITY selects what type of signal the MIDI THRU port will send. The settings are the same as for OUT PORT FUNCTIONALITY.

INPUT FROM selects the source Analog Rytm MKII will receive MIDI data from.

- DISABLED will make Analog Rytm MKII disregard any incoming MIDI data.
- MIDI will make Analog Rytm MKII listen only to MIDI data sent to the MIDI IN port.
- USB will make Analog Rytm MKII listen only to MIDI data sent to the USB port.
- MIDI+USB will make Analog Rytm MKII listen to MIDI data sent to both the MIDI IN and USB ports.

OUTPUT TO selects the destination to which Analog Rytm MKII will send MIDI data.

- DISABLED will stop Analog Rytm MKII from sending out any MIDI data.
- MIDI will make Analog Rytm MKII send MIDI data to the MIDI OUT port only.
- USB will make Analog Rytm MKII send MIDI data to the USB port only.
- MIDI+USB will make Analog Rytm MKII send MIDI data to both the MIDI OUT and USB ports.



If MIDI+USB is selected in the OUTPUT TO settings, MIDI data will limit the USB speed.
When sending large chunks of data, make sure you only use the USB setting.

OUTPUT CH selects whether the **[PADS]** and the knobs will send data on the auto channel or the track channel.

PARAM OUTPUT selects what type of MIDI messages the **DATA ENTRY** knobs will send. For information about which CC/NRPN parameters that will be sent, please see "APPENDIX C: MIDI" on page 85.

- NRPN will make the knobs send out NRPN MIDI messages.
- CC will make the knobs send out CC MIDI messages.

ENCODER DEST controls whether the **DATA ENTRY** and **TRACK LEVEL** knobs will send MIDI data or not. When set to INT, no MIDI data will be sent. When set to INT + EXT, MIDI will be sent internally as well as externally.

PAD DEST controls whether the **[PADS]** will send MIDI data or not. When set to INT, no MIDI data will be sent. When set to INT + EXT, MIDI will be sent internally as well as externally. When set to EXT, MIDI will only be sent externally.

PRESSURE DEST controls whether varying pressure applied to the **[PADS]** will send MIDI data or not. When set to INT, no MIDI data will be sent. When set to INT + EXT, MIDI will be sent internally as well as externally. When set to EXT, MIDI will only be sent externally.

MUTE DEST controls whether activating/deactivating mutes will send MIDI data or not. When set to INT, no MIDI data will be sent. When set to INT + EXT, MIDI will be sent internally as well as externally. When set to EXT, MIDI will only be sent externally.

RECEIVE NOTES will when active, make it possible to play Analog Rytm MKII using an external MIDI keyboard.

RECEIVE CC/NRPN will when active make it possible to control Analog Rytm MKII parameters from an external MIDI device sending CC/NRPN data.

14.4.3 CHANNELS

This menu handles the MIDI channel configuration.



TRACK 1-12, FX selects MIDI channel for the tracks that controls the drum and FX tracks. An OFF setting will make the track disregard any incoming MIDI messages.

PERF CHANNEL selects the MIDI channel the knobs will send MIDI data on when PERFORMANCE mode is active.

AUTO CHANNEL selects the MIDI channel that will give access to the currently active track. If an external MIDI keyboard connected to Analog Rytm MKII sends MIDI data on this channel, the keyboard will control the active track. This is useful when for example quickly changing between the active drum tracks to play different Sounds.

PROGRAM CH IN CH selects the MIDI channel that will listen for incoming program change messages. An AUTO setting will use the AUTO channel. Enable Analog Rytm MKII to respond to program change messages in the MIDI SYNC menu. For more information, please see “14.4.1 SYNC” on page 61.

PROGRAM CH OUT CH selects the MIDI channel that will send program change messages when changing patterns. An AUTO setting will use the AUTO channel. Enable Analog Rytm MKII to send program change messages in the MIDI SYNC menu. For more information, please see “14.4.1 SYNC” on page 61.

14.5 SYSEX DUMP

In the SYSEX DUMP menu, kits, Sounds, patterns, songs and global slots can be sent and received. Note that Sample transfer is handled exclusively via the SAMPLES menu (see above). Select a menu option using [UP]/[DOWN] or the **TRACK LEVEL** knob. Press [YES] to open the highlighted menu selection.



When receiving or sending SysEx data, the MIDI ports or the USB port of Analog Rytm MKII must be connected to the external sending/receiving device.



If the external device is a computer, we recommend using our free SysEx utility C6, which can be downloaded from the Elektron website.

14.5.1 SYSEX SEND

Here kits, Sounds, patterns, songs and global slots can be sent to an external device via the MIDI OUT port or the USB port of Analog Rytm MKII.

ALL	WHOLE PROJECT
KIT	ALL SOUNDS
SOUND	ALL KITS
PATTERN	ALL PATTERNS
PATTERN+KIT	ALL SONGS
SONG	ALL GLOBALS
GLOBAL	ALL SETTINGS

The column to the left selects what will be backed up. Select the column using the [LEFT] arrow key. Use the [UP]/[DOWN] keys or the **TRACK LEVEL** knob to scroll through the column. The SysEx data send alternatives located in the column to the right will change depending on the selection made in the left column. Press the [RIGHT] arrow key to access this column. Use the [UP]/[DOWN] keys or the **TRACK LEVEL** knob to select what will be sent. Press [YES] to initiate the SysEx send procedure.

ALL offers the possibility to do complete backups of various data.

- WHOLE PROJECT sends all kits, Sounds (not including samples), patterns, songs and global slots + settings to the receiving device. i.e. the complete project.
- ALL SOUNDS sends all Sounds (not including samples) to the receiving device.
- ALL KITS sends all kits to the receiving device.
- ALL PATTERNS sends all patterns to the receiving device.
- ALL SONGS sends all songs to the receiving device.
- ALL GLOBALS sends all global slots to the receiving device.
- ALL SETTINGS sends all settings to the receiving device.

KIT sends the selected kit to the receiving device. An asterisk at the end of the kit name indicates the kit is not linked to any pattern.

SOUND sends the selected Sound to the receiving device.

PATTERN sends the selected pattern to the receiving device. To the right of the pattern slot, the name of the kit linked to the pattern is visible. An asterisk indicates that the pattern is not linked to a kit.

PATTERN + KIT sends the selected pattern plus its associated kit to the receiving device.

SONG sends the selected Song to the receiving device.

GLOBAL sends the selected Global slot to the receiving device.



- Please note that samples can not be transferred via a SysEx dump. You should use Elektron's Transfer program to transfer samples to and from a computer.
- Before initiating a SysEx send, first, make sure the receiving device is listening for data to be sent. If C6 is used, always check that none of the objects are broken.

14.5.2 SYSEX RECEIVE

Here kits, Sounds, patterns, songs and global slots can be received from an external device via the MIDI IN port or the USB port of Analog Rytm MKII.

ANYTHING	THEME: IN
KIT	
SOUND POOL	
+DRIVE SOUND	
PATTERN	
SONG	
GLOBAL	

The column to the left selects what will be received. Select the column using the [LEFT] arrow key. Use the [UP]/[DOWN] keys or the **TRACK LEVEL** knob to scroll through the column. The SysEx data receive alternatives located in the column to the right will change depending on the selection made in the left column. Press the [RIGHT] arrow key to access this column. Use the [UP]/[DOWN] keys or the **TRACK LEVEL** knob to select what will be received. Press [YES] to initiate the SysEx receive procedure. Analog Rytm MKII will start listening to incoming data. Press [NO] to stop listening.

ANYTHING will listen to and receive any viable SysEx data sent.

KIT will exclusively listen to and receive kit data.

- **ACTIVE KIT** will when receiving kit SysEx data replace currently active kit with the received kit.

- **KIT 01-128** will store a received kit to the selected kit slot. An asterisk at the end of the kit name indicates the kit is not linked to any pattern.

SOUND POOL will store a received Sound to the selected slot of the Sound Pool of the active project.

+DRIVE SOUND will store a received Sound to the selected slot of the +Drive Sound library. The option **ANYWHERE** will place the Sound in the first free slot available. To the right of the bank indication, the number of free slots can be seen.

PATTERN will store a received pattern to the selected pattern slot. To the right of the pattern slot, the name of the kit linked to the pattern is visible. An asterisk indicates the pattern is not linked to a kit.

SONG will store a received song to the selected song slot.

GLOBAL will store a received global to the selected global slot.



- Initiate the SysEx send from the sending device after Analog Rytm MKII has started listening to incoming data.
- When receiving to a specific list position, any subsequent data will be received on the next position, or positions, in the list.
- Analog Rytm MKII can receive SysEx data at any time, regardless of the currently active menu. The data will be loaded into the position specified when it was saved, or to the first free slot if unspecified.

14.6 AUDIO ROUTING

In this menu, you can customize track routing and the routing of audio to and from a class compliant audio device. Use **[ARROW]** keys **[UP]** and **[DOWN]** to navigate the menu.



ROUTE TO MAIN highlight this option to customize which of the 12 tracks will send to the main output. Use the **[PADS]** to activate/deactivate send from the track of each corresponding pad. <PADS> of a green color send to main. Unlit <PADS> do not. Note that each track will still send to its individual output.

SEND TO FX highlight this option to customize the FX routing of the 12 tracks. Use the **[PADS]** to activate/deactivate each corresponding track for routing through the FX. <PADS> of a yellow color route to FX. Unlit <PADS> do not.

USB IN sets where the incoming audio from the class compliant device is routed to in the Analog Rytm MKII's signal path. This parameter is only available when **USB CONFIG** is set to USB AUDIO/MIDI. For more information, please see "14.8.2 USB CONFIG" on page 68.

PRE-FX the incoming audio is routed in before the Analog Rytm MKII's effects and will be affected by those and then be sent at the main outputs. The audio is also routed to the sampler.

POST-FX the incoming audio is routed in after the Analog Rytm MKII's effects and will not be affected by those. The audio is then sent at the main outputs. The audio is also routed to the sampler.

TRACK 1-12, L:1-12/R:1-12 Press a **[PAD]** twice to select a single track as a destination. The selected track's **[PAD]** (or **[PADS]** if you selected a track that shares its voice with another track) lights up white. The incoming audio is summed to mono and routed to the selected track and is affected by the tracks parameters (such as filter, envelope).

Press first one **[PAD]** and then another to select two separate tracks as destinations. The selected tracks' **[PADS]** lights up blue for left channel and red for right channel. The incoming audio's left and right signal is then sent to separate tracks and is affected by the tracks' parameters.

The audio is also routed to the sampler.

SAMPLER ONLY the incoming audio is only routed to the Analog Rytm MKII's sampler and not to any track or to the main out.



To be able to hear and process the incoming audio sent to one (or two) of the Analog Rytm MKII's tracks, you must place a note trig on the selected track(s) and start the sequencer. This is needed to trigger and open the track's envelope and let the audio through. For continuous processing, set the trig's LEN parameter to INF.

USB OUT sets from where in the Analog Rytm MKII's signal path, the outgoing audio is routed to the class compliant device. This parameter is only available when **USB CONFIG** is set to USB AUDIO/MIDI. For more information, please see "14.8.2 USB CONFIG" on page 68.

MAIN OUT the outgoing audio is routed from the Analog Rytm MKII's main out at the end of the signal path.

TRACK 1-12, L:1-12/R:1-12 Press a [PAD] twice to select a single track as a source. The selected track's [PAD] (or [PADS]) if you selected a track that shares its voice with another track) lights up white.

Press first one [PAD] and then another to select two separate tracks as sources. The selected tracks' [PADS] lights up blue for left channel and red for right channel. The audio from the tracks is routed out and sent separately on left and right channel.

AUDIO IN the outgoing audio is routed straight from the Analog Rytm MKII's audio inputs to the class compliant device.

OFF no audio is sent to the class compliant device.

USB TO MAIN [dB] sets the amount of amplification of the sound that is streamed over USB to the Analog Rytm MKII's main out when used with a class compliant audio device. (0 dB→+18 dB) This parameter is only available when **USB CONFIG** is set to USB AUDIO/MIDI. For more information, please see "14.8.2 USB CONFIG" on page 68.



The possibility of routing audio routing to and from a class compliant device opens up several exciting possibilities. For example you can send the audio from TRACK 1 to a class compliant device, let it process the audio and then send the processed audio back to the Analog RYTM MKII's main outs. To achieve this, use these settings:

- **TO MAIN** = disable TRACK 1
 - **TO FX** = disable TRACK 1
 - **USB IN** = POST-FX
 - **USB OUT** = TRACK 1
 - In the class compliant device, route the incoming audio to a FX plugin and then route the processed audio to its output.
-
- Some of the ANALOG RYTMS MKII's tracks (3/4, 7/8, 9/10, 11/12) share the same voice and can not be chosen as separate inputs/outputs for L/R audio configurations simultaneously. I.e. you can not choose track 3 for left channel and track 4 for right channel.
 - Please note that the chosen settings for USB IN and USB OUT and settings made in the class compliant device's applications can cause an audio feedback loop resulting in extreme audio levels.

14.7 CONTROL

In this menu, you can customize the settings for the control inputs and also set some preferences for the sequencer behavior. Use [ARROW] keys [UP] and [DOWN] to navigate the menu

14.7.1 CONTROL INPUT 1

This menu item accesses the settings for the Control In 1 input (labeled EXP/CV IN 1 on the Analog Rytm MKII back panel). You can use this input to plug in different modulation sources. The modulation destinations are set in the CONTROL IN 1 MOD menu in the KIT menu. For more information, please see "10.2.6 CONTROL IN 1 MOD" on page 27.

**MODE**

Sets the port mode to adjust to different kinds of input signals. There are three modes: CV (Control Voltage), EXPR (Expression Pedal), and OFF.

CV ZERO LEVEL (Available when MODE is set to CV.)

Sets the Volt level at which CV modulation amount is zero. A control input level equal to this setting corresponds to zero modulation. (-5.50 V–+5.50 V).

CV MAX LEVEL (Available when MODE is set to CV.)

Sets the Volt level at which CV modulation amount is max. A control input level equal to this setting corresponds to full modulation. (-5.50 V–+5.50 V).

EXPRESSION LEARN (Available when MODE is set to EXPR.)

Sets the highest and lowest limit of the control input level. When in this setting, connect the Expression pedal to CONTROL IN A/B. Press YES and then move the expression pedal first to max and then to min position. Press YES to save settings.

REVERSE DIRECTION (Available when MODE is set to EXPR.)

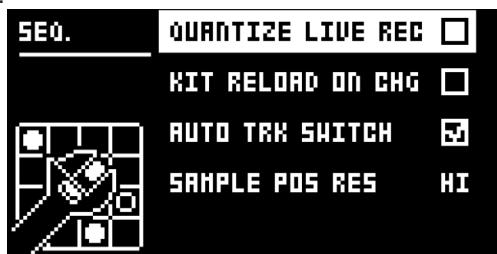
Reverses the direction of how the Expression pedal sends control input signals.

14.7.2 CONTROL INPUT 2

The available settings are the same as for **CONTROL INPUT 1**.

14.7.3 SEQUENCER CONFIG

Here settings relating to the sequencer can be found. Change settings by using the [LEFT]/[RIGHT] arrow keys or the [YES] key.



QUANTIZE LIVE REC will when checked, quantize notes entered in LIVE RECORDING mode to complete sequencer steps. When the setting is deactivated, live recorded notes will, where applicable, be affected by micro timing. Read more about micro timing and quantization in section “11.8 TRIGS SETUP MENU” on page 45.

KIT RELOAD ON CHG will when checked cause kits to reload to their saved state automatically as soon as a new kit becomes active. This is useful if you, for example, play live, have tweaked a kit extensively and want it to return to its saved state automatically next time it becomes active again.

AUTO TRK SWITCH will when checked, change the active track to the track whose [PAD] or [TRIG] key you last pressed. This lets you change the active track without having to use the [FUNC] key.

SAMPLE POS RES lets you select if the **STA** and **END** parameters on the SMPL page should be highres or lowres. Change the setting by pressing the [YES] key. Highres gives you a more precise control over the sample region you wish to play. Lowres makes it easier to work with pre-made sample chains and slices.

14.8 SYSTEM

The System menu contains LED INTENSITY, USB CONFIG, OS UPGRADE, FORMAT +DRIVE, STORAGE and CALIBRATION options for the Analog Rytm MKII.

14.8.1 LED INTENSITY

Sets the brightness of the key LEDs and screen. Use the [LEFT]/[RIGHT] keys to change the setting (LOW, MID, MAX).

14.8.2 USB CONFIG

Here you find several settings related to Overbridge and USB audio. Selecting one mode disables the other two modes.



OVERBRIDGE enables Overbridge functionality. For more information, please see “6.6 OVERBRIDGE” on page 17.

USB MIDI select this option if you wish to send and receive MIDI over USB.

USB AUDIO/MIDI sets the Analog Rytm MKII to send and receive audio and MIDI over USB. Select this option if you want to use the Analog Rytm MKII together with a class compliant USB audio host. For more information, please “6.7 CLASS COMPLIANT DEVICE” on page 18 and “14.6 AUDIO ROUTING” on page 65.

14.8.3 OS UPGRADE

Use this menu option is used when you want to upgrade the Analog Rytm MKII OS. To send the OS syx file, use our free Elektron Transfer software. The OS syx file and Elektron Transfer can be downloaded from the Elektron website.

For the transfer to be possible, the device sending the OS syx file must be connected to the USB port of Analog Rytm MKII.

Please note that the Analog Rytm MKII will not appear as an icon on your computer desktop.

1. Connect the Elektron device to the computer via USB.
2. Open the Transfer application on your computer.
3. On the Transfer CONNECTIONS page, set the MIDI IN and MIDI OUT ports to your Elektron device.
4. On the Transfer DROP page, drag and drop the OS file. The OS file is then automatically transferred to the Elektron device and the OS update initiates. A progress bar is visible on device screen when receiving the OS.
5. On your device. Press [YES] to confirm the OS update.

When the process is successfully completed, the OS is updated and the unit reboots.

14.8.4 FORMAT +DRIVE

You can erase all content of the +Drive. Once you have made your choices using the [LEFT] or [RIGHT] arrow keys and confirmed by pressing [YES], a prompt will appear asking if the formatting procedure should be executed. Press [YES] to proceed with the formatting.

PROJECTS+SOUNDS Erases all projects and Sounds. Tick/untick this box by pressing the [LEFT] or [RIGHT] arrow keys.

SAMPLES Erases all samples. Tick/untick this box by pressing the [LEFT] or [RIGHT] arrow keys.

14.8.5 STORAGE

Here you get an overview of what is stored in the RAM and the +Drive and how much memory that is available. Other than the number of Projects, Sounds, and Samples, and you also see the amount of sample time used and remaining. On the right, you see the memory usage of the RAM and the +Drive.

STORAGE	RAM	*DRIVE
PROJECTS: 4		
SOUNDS: 136		
SAMPLES: 120	35%	11%
SAMPLE TIME:	FREE:	FREE:
04:19/11:39	41MB	846MB

14.8.6 CALIBRATION

After selecting one of the options, a popup window asking to confirm the calibration will appear. Press [YES] to proceed with the calibration. Please note that during calibration there may be loud and unpleasant sounds on the individual outs. Disconnect these during calibration. The calibration routine takes quite a while to complete.

RUN CALIBRATION Calibrates the oscillators for the BD, SD, and RS/CP voices using the current operating temperature. It is used to improve the tuning of the analog oscillators when operating the device in an environment where the temperature is outside of the normal operating range (~20–25C).

Before calibrating your unit, leave it on for a few hours to stabilize the internal temperature.

FACTORY RESTORE Restores the calibration data to the same state as it was when it was calibrated during production.

WARMUP CALIBRATION Starts a calibration routine for the oscillators and filters. This option is only available if you upgrade to OS 1.70 or later or have not performed a Warmup calibration before. Before calibrating your unit, make sure it has been turned off for at least 20 minutes so it has reached room temperature. Please note that this calibration takes several hours and continues even if the screen saver turns on. Waking the device from the screen saver does not halt the calibration process.

15. STARTUP MENU

To access this menu, hold down the [FUNC] key while powering up Analog Rytm MKII. From here you can perform a variety of tasks. To choose the different alternatives, press the corresponding [TRIG] key.

15.1 TEST MODE

To enter this mode, press the [TRIG 1] key.



Warning: For testing purposes, a short loud beep is heard through all outputs of the unit.

If you have any trouble with your Analog Rytm MKII and suspect it may be due to a hardware problem, perform this self-test. No errors should be reported as shown below. If that is not the case, contact Elektron support or the retailer that you bought Analog Rytm MKII from. The [UP] and [DOWN] keys can be used to scroll through the test log.

15.2 EMPTY RESET

To perform this operation, press the [TRIG 2] key. All kits, patterns, Sounds and songs will be erased. The +Drive remains intact.

15.3 FACTORY RESET

When performing a factory reset on the Analog Rytm MKII, it will overwrite and re-initialize the active RAM project (including all pattern, kit, sound pool and global data). The +Drive project slot 1 will be overwritten and re-initialized with factory preset patterns, kits, Sounds and settings. Sound bank A will be overwritten with the factory Sounds.

If you wish to keep the active project, remember to save it to a +Drive project slot higher than 1 before you perform a factory reset. To perform a factory reset, press the [TRIG 3] key.

15.4 OS UPGRADE

Initiate the OS upgrade by pressing the [TRIG 5] key. Use this menu option if you for some reason cant upgrade the Analog Rytm MKII OS using the standard procedure in the SYSTEM menu. To send the OS file, use our free Elektron Transfer software. The Elektron Transfer can be downloaded from the Elektron website.

1. Download the Analog Rytm MKII OS file from the Elektron website.
2. Connect the Analog Rytm MKII's MIDI IN port to the MIDI OUT port of the computer's MIDI interface.
3. Hold down the [FUNC] key while powering on Analog Rytm MKII. This takes you to the STARTUP menu.
4. Press the [TRIG 4] key to enter OS UPGRADE mode.
5. Open the Transfer application on your computer. On the Transfer CONNECTION page, click "go to the SYSEX TRANSFER page".
6. On the SYSEX TRANSFER page, click "OS Upgrade via device startup menu", and then follow the on-screen instructions.

When the update is done, the Analog Rytm MKII will reboot.



USB MIDI transfer is not possible when upgrading the OS from the STARTUP menu.

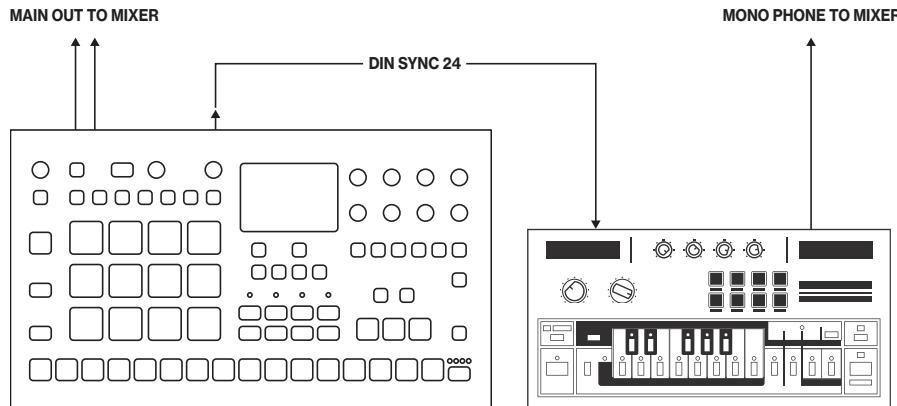
15.5 EXIT

Press the [TRIG 5] key to exit the STARTUP menu.

16. SETUP EXAMPLES

The Analog Rytm MKII likes to play with other machines. Whether it uses its ability to sync and play with legacy machines, plays its part among other Elektron machines or plays with incoming audio: Analog Rytm MKII gets along with other gear. Three examples are shown here.

16.1 ANALOG RYTM MKII WITH A MONOPHONIC BASS MACHINE



The DIN sync capabilities of the Analog Rytm MKII allows you to use gear from times gone by.

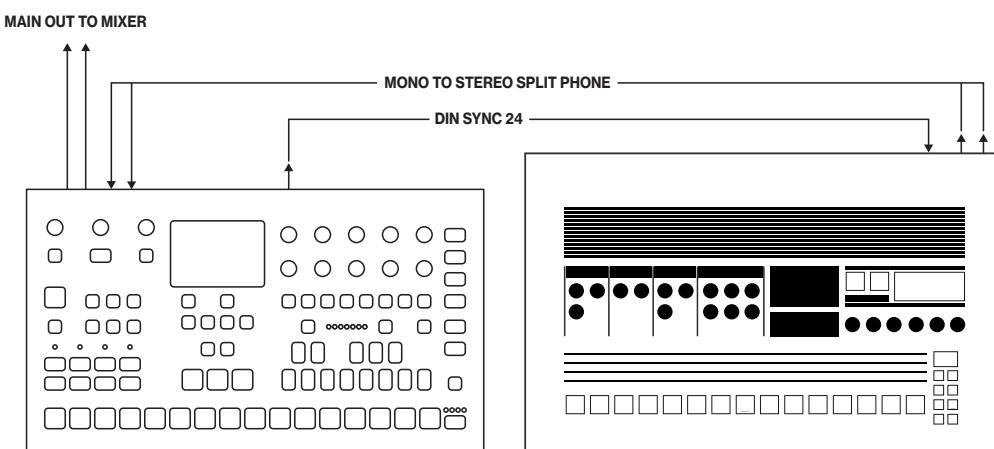
In this example, a legacy monophonic bass machine is used alongside the Analog Rytm MKII. The bass machine bassline is started, stopped and tempo controlled with the Analog Rytm MKII.

1. Prepare a bassline pattern on the bass machine.
2. Connect the output of the bass machine to the mixer using a standard phone cable.
3. Connect the Analog Rytm MKII outputs to the mixer using standard phone cables.
4. Connect the MIDI Out of the Analog Rytm MKII to the SYNC IN of the bass machine.
5. In the GLOBAL SETTINGS > MIDI PORT CONFIGURATION menu of the Analog Rytm MKII, set **OUT PORT FUNC** to DIN24



6. Prepare a rhythm on the Analog Rytm MKII.

16.2 ANALOG RYTM MKII WITH A STEREOPHONIC DRUM MACHINE

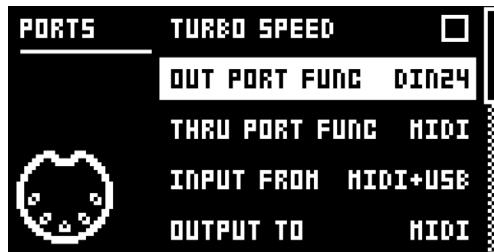


16. SETUP EXAMPLES

Use the Analog Rytm MKII compressor when you incorporate sounds from external instruments in your composition.

The following example shows how an old drum machine is hooked up to the Analog Rytm MKII. The stereo output from the drum machine can be compressed to fit in nicely, and its patterns started, stopped and tempo controlled, using the Analog Rytm MKII.

1. Prepare a rhythm pattern on your heritage drum machine.
2. Connect the stereo outputs of the drum machine to the inputs of the Analog Rytm MKII using a mono to stereo split phone cord.
3. Connect the MIDI Out of the Analog Rytm MKII to the SYNC of the drum machine.
4. In the GLOBAL SETTINGS > MIDI PORT CONFIGURATION menu of the Analog Rytm MKII, set OUT PORT FUNC to DIN24.

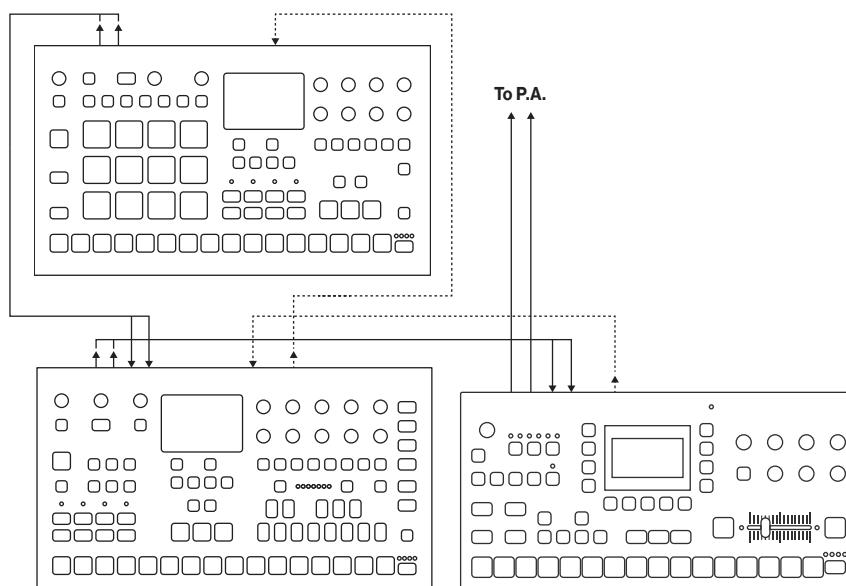


5. Start the rhythm on the drum machine and access the COMPRESSOR of the Analog Rytm MKII by pressing the [FX] key, then the [AMP] key. Set the parameters according to taste.



6. Prepare a rhythm on the Analog Rytm MKII.

16.3 ANALOG RYTM MKII WITH OTHER ELEKTRON GEAR



Analog Rytm MKII works very well together with other Elektron devices. Here, it is used together with an Octatrack MKII and an Analog Four MKII.

In this example, the Analog Rytm MKII creates the beats. The Analog Four MKII is used for bass and synth sounds. The Octatrack MKII plays back loops and samples the audio from the Analog Rytm MKII and the Analog Four MKII.

1. Connect the Analog Rytm MKII main outputs to the Analog Four MKII inputs, the Analog Four MKII main outputs to one of the input pairs of the Octatrack MKII, and the main outputs of the Octatrack MKII to the PA.
2. Make sure the Analog machines are MIDI slaved to the Octatrack MKII using two standard MIDI cables.
3. In GLOBAL SETTINGS > MIDI CONFIG > SYNC menu on the Analog Rytm MKII, ensure that **CLOCK RECEIVE**, and **PROG CH RECEIVE** is active.



4. In GLOBAL SETTINGS > MIDI CONFIG > PORT CONFIG menu on the Analog Rytm MKII, set **INPUT FROM** to MIDI or MIDI+USB.



5. Use the internal effects of the Analog Four MKII on the incoming signal from the Analog Rytm MKII. Make a performance macro on the Analog Four MKII that controls the desired FX parameters.

16.4 ANALOG RYTM MKII WITH A CLASS COMPLIANT DEVICE

The Analog Rytm MKII supports class compliant audio and MIDI over USB and it opens up a vast array of possibilities of interaction with other class compliant devices such as computer, smart phones and tablets. In this example, the class compliant device is used as an insert effect for Analog Rytm MKII's track 1.

1. Connect the Analog Rytm MKII with the class compliant device over USB.
2. In the USB CONFIG menu, select USB AUDIO/MIDI.
3. In the AUDIO ROUTING menu, make the following settings:
 - **TO MAIN** = disable TRACK 1
 - **TO FX** = disable TRACK 1
 - **USB IN** = POST-FX
 - **USB OUT** = TRACK 1
4. In the class compliant device, route the incoming audio to a FX plugin and then route the processed audio to its output and select the Analog Rytm MKII as the destination for the processed audio.
5. Play audio on track 1 on the Analog Rytm MKII. The tracks internal audio is not heard, but the processed audio from the class compliant device is now present at the main output of the Analog Rytm MKII.

17. USEFUL KEY COMBINATIONS (QUICK KEYS)

Use the key combinations below to quickly perform certain tasks.

GENERAL

[FUNC] + [RECORD] will perform a copy command. Action depends on the currently active page or mode.

[FUNC] + [PLAY] will perform a clear command. Action depends on the currently active page or mode.

[FUNC] + [STOP] will perform a paste command. Action depends on the content that was copied.

NAMING

[FUNC] + [ARROW] (on the NAMING screen) to choose a letter.

[FUNC] + [NO] (on the NAMING screen) to erase a letter.

ASSIGN SYNTH / SAMPLE

Double-press [SRC] to access MACHINE (Synth engine) selection.

[FUNC] + [SMPL] to access SAMPLE selection (from the 127 samples of the active Kit).

When SAMPLE selection is open, pick a slot and press [FUNC] + [YES] to access +Drive samples.

SAVING AND RELOADING

[YES] + [PLAY MODE] will save Kit.

[NO] + [PLAY MODE] will reload Kit.

[YES] + [MUTE] will save Sound.

[TRIG] + [MUTE] (in GRID RECORDING mode) will save that trigs Sound complete with its parameter locks added.

[NO] + [MUTE] will reload Sound.

[YES] + [SCNE] will save Pattern.

[NO] + [SCNE] will reload Pattern.

[YES] + [CHRO] will save Track.

[NO] + [CHRO] will reload Track.

[YES] + [PERF] will save Song.

[NO] + [PERF] will reload Song.

[PARAMETER] key + [NO] will reload the parameters on a specific parameter page to their last saved state.

[FX] + [NO] will reload the parameters on all of the FX track's parameter pages to their last saved state.

NAVIGATING

[FUNC] + [RIGHT] (In the SAMPLES menu) opens a directory.

[FUNC] + [LEFT] (In the SAMPLES menu) exits a directory and backs one step up in the directory hierarchy.

MENU ACCESS

[GLOBAL SETTINGS] to open the GLOBAL SETTINGS menu.

[FUNC] + [PLAY MODE] to open the KIT menu.

[FUNC] + [MUTE] to open the SOUND menu.

Double-press [TRK] to open the SOUND BROWSER.

SEQUENCER SETTINGS

[FUNC] + [TEMPO] to tap tempo.

[FUNC] + [RTRG] to access the CLICK TRACK settings.

[FUNC] + [TRIG] to access the quantize settings in the TRIGS SETUP menu..

[FUNC] + [PAGE] to access the pattern / track SCALE settings.

MUTES AND SOLO

[FUNC] + [PADS] will mute/unmute one or several Tracks (activate by releasing [FUNC]).

[RTRG] + [PADS] to solo enable Track (multiple Tracks may be solo:ed).

SEQUENCER RECORDING

[RECORD] + [PLAY] to start LIVE RECORDING.

[RECORD] + double-press [PLAY] will activate/deactivate QUANTIZE LIVE RECORDING.

[NO] + one of the [PADS] during LIVE RECORDING to clear the trigs from a sequencer track.

CLEAR TRACK / CLEAR PATTERN

[FUNC] + [PLAY] (while in GRID RECORDING mode) to clear active Track.

[FUNC] + [PLAY] (while in no mode or LIVE RECORDING mode) to clear Pattern.

SHIFTING TRIGS AROUND

[FUNC] + [LEFT/RIGHT] to move all trigs a whole step, left or right.

[TRIG] + [LEFT/RIGHT] to nudge a single trig a fractional step left or right.

[TRIG] + [UP/DOWN] to activate RETRIG and set retrig rate (while in GRID RECORDING mode).

CHAIN EDITING

[FUNC] + [CHAIN] to create new scratch pad row.

[CHAIN] + [LEFT/RIGHT] to move chain cursor.

[CHAIN] + [NO] to remove Pattern from the chain before cursor (or selected).

[BANK A-H] and then [TRIG 1-16] to enter a new Pattern into the chain (positioned where the cursor is at).

DIRECT SAMPLING

[SAMPLING] + [YES] arms the sampler.

[FUNC] + [SAMPLING] starts the sampling.

[FUNC] + [SAMPLING] stops the sampling.

[SAMPLING] + [NO] cancels at any stage in the Direct Sampling process.

RANDOMIZE PARAMETERS

[PARAMETER] key + [YES] to randomize all parameters on a specific parameter page.

[PARAMETER] key + [NO] to reset the PARAMETER page to its last saved state.

SAMPLE/SOUND/TRIG PREVIEW

[FUNC] + [YES] (In the SAMPLES menu) previews the highlighted sample.

[FUNC] + [YES] (In the SOUND BROWSER/SOUND MANAGER) previews the highlighted Sound.

[TRIG] + [YES] (In GRID- and STEP RECORDING mode) previews the selected trig.

18. TECHNICAL INFORMATION

SPECIFICATIONS

ELECTRICAL SPECIFICATIONS

Impedance balanced audio outputs:

Main outputs level: +15 dBu

Output impedance: 440 Ω unbalanced

Individual outputs:

Output level: +15 dBu

Output Impedance: 440 Ω

Headphones output:

Headphones out level: +15 dBu

Output impedance: 55 Ω

Unbalanced external inputs:

Input level: +15 dBu maximum

Audio input impedance: 9 kΩ

Balanced audio inputs:

Input level: +15 dBu maximum

Audio input impedance: 19 kΩ

Digital S/N ratio: 110 dB (20–20,000 Hz)

Control inputs

Input level on tip: -5 V–+5 V. Supplies +5 V on ring

Accepts CV and Expression pedals

Unit power consumption: 14 W typical, 20 W maximum.

Recommended power supply: PSU-3/b/c,
12 V DC, 2A

HARDWARE

128 × 64 pixel OLED screen

MIDI In/Out/Thru with DIN Sync out

2 × 1/4" impedance balanced audio out jacks

1 × 1/4" stereo headphone jack

8 × 1/4" impedance balanced individual track output jacks

2 × 1/4" balanced audio in jacks

2 × 1/4" ext in jacks

2 × 1/4" CV/Expression inputs

48 kHz, 24-bit D/A, and A/D converters

Flash-EEPROM upgradable OS

Electrically isolated USB 2.0 port

PHYSICAL SPECIFICATIONS

Aluminum enclosure

Dimensions: W385 × D225 × H82 mm (15.2 × 8.85 × 3.3") including knobs, jacks, and feet

Weight: approximately 2.4 kg (5.3 lbs)

19. CREDITS AND CONTACT INFORMATION

CREDITS

PRODUCT DESIGN AND DEVELOPMENT

Oscar Albinsson

Johannes Algelind

Ali Alper Çakır

Oscar Dragén

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APPENDIX A: DRUM TRACK PARAMETERS

This appendix lists the parameters on the PARAMETER pages for the drum tracks and explains them. With one exception, each page contains the same parameters on all drum tracks. The exception is the SRC page, where parameters will vary depending on the active MACHINE.

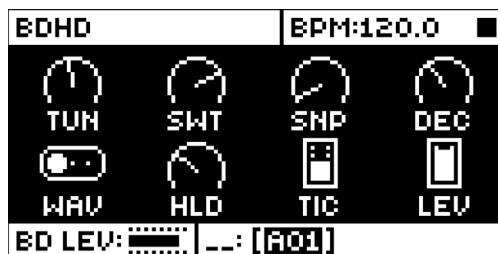


- You can randomize the parameter settings on a specific PARAMETER page of a track. Press [PARAMETER] key + [YES] to randomize all parameters on that page. Every time you press this key combination, the parameters randomize in a new way.
- Press [PARAMETER] key + [NO] to reset the PARAMETER page to its last saved state.
- The parameters on the TRIG page can not be randomized.

A.1 SRC

Controls the (analog and digital) sound synthesis. The default parameters for the BD track with the BDHD machine are shown here. For the SRC pages of other machines, see “APPENDIX D: MACHINES” on page 96.

SYNTH (BDHD)



TUN (Tune) sets the pitch of the voltage controlled oscillator in chromatic semitones.

SWT (Sweep Time) sets the pitch sweep time. Low values result in a short sweep, while high values result in a long sweep.

SNP (Snap Amount) sets the amount of snap, an immediate pitch sweep at the start of the sound attack phase. Use together with TIC to shape the transient sound components.

DEC (Decay) sets the length of the decay phase. Low values mean a steep, quick decay while high values produce a more gentle slope and a sound of longer duration.

WAV (Waveform) sets the voltage controlled oscillator waveform to sine, asymmetric sine or triangle. The three waveforms, in that order, produce sounds with increasing amounts of overtone content.

HLD (Hold) sets the length of the hold phase before the decay phase kicks in. Low values correspond to short hold time, high values correspond to longer hold time. Use to shape the body of the drum sound.

TIC (Tick Level) sets the level of the transient tick sound. Use together with SNP to shape the composite transient sound.

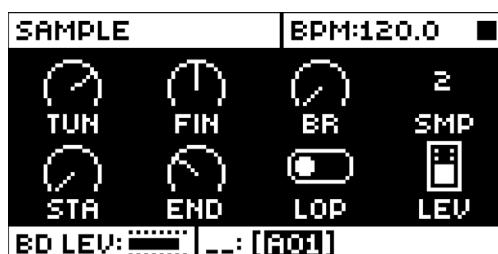
LEV (Level) sets the volume of the SYNTH sound.

A.2 SMPL PAGE 1

The parameters on this page control the playback of the samples. A project has 127 sample slots. Within each kit, these samples may be dynamically allocated, modulated and customized.

Press [SMPL] to access this parameter page and to toggle between SMPL PAGE 1 and SMPL PAGE 2.

SAMPLE PAGE 1



TUN (Tune) sets the pitch of the sample in equivalents of chromatic semitones. To move faster, press the knob while turning it. The knob works in a bipolar fashion, with 0, north, leaving the pitch unchanged. Range (-24–+24), equivalent to four octaves.

FIN (Fine Tune) fine tunes the pitch of the sample. This parameter is an offset from the TUN parameter. The knob works in a bipolar fashion. The whole range (-64–+63) spans one semitone down and one semitone up.

BR (Bit Reduction) increasing the value of this parameter decreases the resolution of the sample, making it more grainy. Use when you want the sound of your drum sample to punch dirty like the sound effects of classic coin-op fighting games.

SMP (Sample Slot) turn this knob to browse the list of up to 127 samples loaded into the project. Turn the knob clockwise to scroll down the list, counter-clockwise to scroll up. The first position, OFF, plays no sample at all.

STA (Start) sets the starting point for the playback of the sample. The extreme values of the range (0–120) are the very beginning and the very end of the sample, respectively. This is a codependent parameter and must be set together with END. **[FUNC]** + turning the data entry knob results in that the parameter value snaps to integers. Pressing the data entry knob while turning changes the parameter in steps of eight.

END (End) sets the end point for the playback of the sample. The extreme values of the range (0–120) are the very beginning and the very end of the sample, respectively. If the value of END is lower than the value of STA, the sample will be played back backward. **[FUNC]** + turning the data entry knob results in that the parameter value snaps to integers. Pressing the data entry knob while turning changes the parameter in steps of eight.

LOP (Loop) when OFF, the sample will be played back once every time it is triggered. When ON, the sample will loop continuously for the length of the trig (set with LEN on the TRIG page), confined by the AMP page envelope parameter settings HLD and DEC.

LEV (Level) sets the volume of the sample.

A.3 SMPL PAGE 2

Same parameters as on SMPL page 1 but with a graphical representation of the parameters and a view of the sample waveform.

Press **[SMPL]** to access this parameter page and to toggle between SMPL PAGE 1 and SMPL PAGE 2.

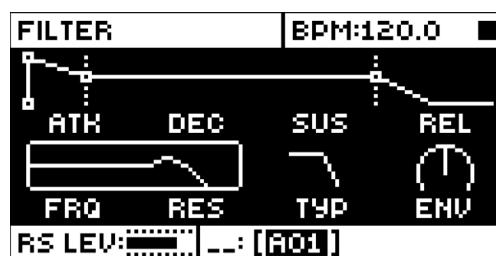
SAMPLE PAGE 2



A.4 FLTR

On the FILTER page you will find all parameters that control the analog multimode filter and its associated envelope.

FILTER



ATK (Attack) sets the length of the attack phase of the filter envelope.

DEC (Decay) sets the length of the decay of the filter envelope.

SUS (Sustain Level) sets the sustain level of the filter envelope.

REL (Release) sets the length of the release phase of the filter envelope.

FRQ (Frequency) sets the cutoff frequency of the multimode filter.

RES (Resonance) sets the resonance behavior of the filter. Resonance introduces a peak in the spectrum at the cutoff frequency. With the Bandstop filter type, there is a notch instead of a peak. The notch will be at its widest at the lowest Resonance setting.

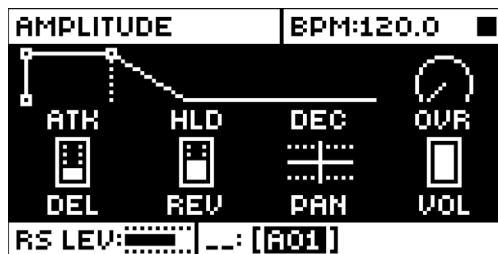
TYP (Filter Type) selects the filter type. Seven types are available: 2-pole Lowpass, 1-pole Lowpass, Bandpass, 1-pole Highpass, 2-pole Highpass, Bandstop, and Peak. Technically all of them are resonant 2-pole filters, but the 1-pole types have a flatter spectrum like simple 1-pole filters and are convenient for equalizer duties.

ENV (Envelope Depth) sets the depth of modulation within the filter envelope. The knob is bipolar, meaning that both negative and positive modulation depth is available.

A.5 AMP

The AMP page controls parameters for the amplitude envelope, overdrive, effects sends, panning and volume.

AMP



ATK (Attack) sets the length of the attack phase of the amp envelope.

HLD (Hold) sets the length of the hold phase of the amp envelope before the decay phase kicks in. Range (AUTO, 1-127). The AUTO setting means the hold phase is determined by the time the pad of the drum track is physically pressed. Values in the range (1-127) fix the hold phase, from very short times at the left extreme to increasingly long times to the right, regardless of how long the pad is pressed.

DEC (Decay) sets the length of the decay phase of the amp envelope.

OVR (Overdrive) sets the overdrive (gain increase boost of the amp), located before the multimode filter in the signal path.

DEL (Delay Send) sets the amount of the Sound that will be sent through to the Delay effect (see "APPENDIX B: FX TRACK PARAMETERS" on page 81).

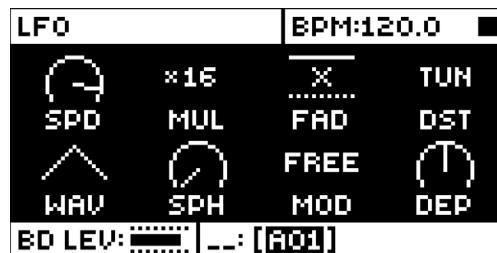
REV (Reverb Send) sets the amount of the Sound that will be sent through to the Reverb effect (see Appendix B).

PAN (Pan) positions the Sound in the stereo field. The knob function is bipolar with 0 being the perfectly balanced midpoint, -64 sending all sound to the left channel and +63 sending all sound to the right.

VOL (Volume) sets the volume of amplification of the Sound. This parameter is independent of the overall track level.

A.6 LFO

The LFO can be used to interfere creatively with any parameter found on the SRC, SMPL, FLTR and AMP pages. Customize the low-frequency oscillator behavior, orientation, and depth on this page.

LFO

SPD (Speed) sets the speed of the LFO. For the LFO to be synced to straight beats, try settings of 8, 16 or 32. The knob is bi-polar. The LFO cycle can be played backward by using negative values.

MUL (Multiplier) multiplies the SPD parameter by the set factor. (x) multiplies the current tempo, (dot) syncs the LFO to 120 BPM regardless of the tempo. 24 settings: (12 tempo synced, 12 free).

FAD (Fade In/Out) makes it possible to fade in/fade out the LFO modulation. The knob is bipolar. Positive values give a fade-out, negative values give a fade-in. A mid position (0) will result in no fade in/fade out.

DST (Destination) selects the destination for the LFO. A list will appear when you turn the knob. Choose a parameter from any of the parameter pages. Turn the knob clockwise to go down the list, counter-clockwise to go up. Preview how the LFO modulation will affect the sound by highlighting a destination. Confirm a selection by pressing [YES].

WAV (Waveform) sets the LFO waveform. There are seven waveforms: Triangle, Sine, Square, Sawtooth, Exponential, Ramp and Random.

SPH (Start Phase) sets the LFO cycle start position when it is triggered. Range (0-127). 0 is the start of a complete wave cycle and 127 is the end point. 64 is the dead center. If **WAV** is set to RND then the **SPH** parameter will instead add slew to the transitions in the waveform.

MOD (Trig Mode) sets how the LFO will act when a note is triggered. Five settings exist.

- **FREE** is the default free-running mode. It makes the LFO run continuously, never restarting or stopping.
- **TRIG** makes the LFO restart when a note is triggered.
- **HOLD** makes the LFO run free in the background, but when a note is triggered the LFO output level is latched and held still until the next note is triggered.
- **ONE** The LFO starts when a note is triggered, then runs to the end of the waveform and then stops. This makes the LFO function similar to an envelope.
- **HALF** The LFO starts when a note is triggered, then runs to the middle of the waveform and then stops.

DEP (Depth) sets the depth and polar orientation of the LFO modulation. Both negative (inverted) and positive modulation depth is possible. Positive values start the oscillation toward the crest phase of the wave, negative values start toward the trough phase of the wave. A dead center setting, 0, equals no modulation depth at all.

APPENDIX B: FX TRACK PARAMETERS

In this appendix, the parameters of the FX track are shown and explained, one page at a time.

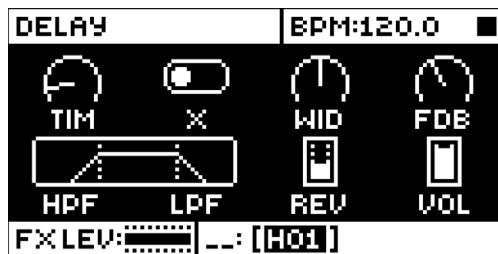


Press [FX] + [NO] to reset the parameters on all parameters pages for the FX track to their last saved state.

B.1 DELAY

The Delay send effect takes a duplicate of the input signal, delays it in time and then rejoins it with the original signal. Customize the delay parameters on this page.

DELAY



TIM (Delay Time) sets the delay time. It is relative to the current BPM and is measured in 128th notes. For instance, a setting of 32 equals a one beat delay (four sixteenth notes).

X (Pingpong) sets the delay signal to alternate across the stereo field. There are two settings:

- 0 (off) if you wish to manually set the position of the delay signal in the stereo field instead. Do so using the **WID** parameter.
- 1 (on) makes the delay signal alternate between left and right pan positions. The **WID** parameter controls the amount of panning.

WID (Stereo Width) sets the delay signal pan width across the stereo field. The knob is bipolar.

FDB (Feedback) sets the amount of delay output signal to feed back into the input of the delay. With higher parameter settings, infinite and/or swelling delays are possible to achieve. Please be aware that high feedback can lead to a very loud signal, and that the **DOV** parameter on the DISTORTION page can further increase the harshness of the feedback.

HPF (HP Filter) sets the cutoff frequency of the delay highpass filter.

LPF (LP Filter) sets the cutoff frequency of the delay lowpass filter.

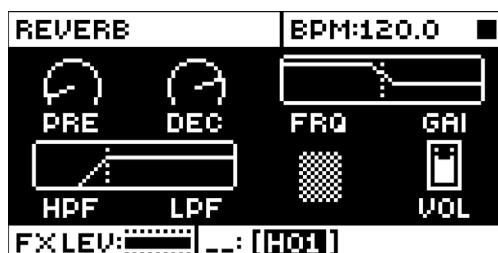
REV (Reverb Send) sets the amount of Delay output signal to be sent to the Reverb.

VOL (Mix Volume) adjusts the volume of the Delay output signal. The output is routed either before or after the Distortion and Compressor effects, depending on the setting of the **DEL** parameter on the DISTORTION page.

B.2 REVERB

The Reverb send effect controls the persistence, and ambient characteristics, of the sound reverberations. It can simulate many different sonic locations, from great spaces to small confinements.

REVERB



PRE (Pre-delay) sets the pre-delay time of the Reverb.

DEC (Decay) sets the length of the decay phase of the reverberated signal, essentially setting the size of the acoustic space.

FRQ (Shelving Frequency) sets the shelving filter frequency. Together with the GAI parameter, it can be used to dampen the reverberated signal above a chosen frequency, making the reverberation sound more clear or more muffled.

GAI (Shelving Gain) affects the damping of the reverberated signal above the shelving frequency set by the FRQ parameter. At max value, the treble is included in the reverberations; lowering the value and gradually dampens it.

HPF (HP Filter) sets the cutoff frequency of the reverb high-pass filter.

LPF (LP Filter) sets the cutoff frequency of the reverb low-pass filter.

VOL (Mix Volume) sets the volume of the Reverb output signal. The output is routed either before or after the Distortion and Compressor effects, depending on the setting of the REV parameter on the DISTORTION page.

B.3 DISTORTION

The distortion master effect pronounces the peaks of the signal and distorts them. Additionally, the sound may be offset in its entirety on this page and subjected to non-symmetrical distortion. This page also controls the overdrive of the Delay effect, as well as the routing of the Delay and Reverb effect returns.

DIST



AMT (Distortion Amount) sets the amount of distortion applied to the signal.

SYM (Distortion Symmetry) offsets the whole signal (in the y-direction, if visualized as a wave cycle on a 2D graph) either up (positive values) or down (negative values) before applying distortion. This makes asymmetric distortion of the signal possible, fringing only the crests or the troughs of the wave.

DOV (Delay Overdrive) sets the overdrive of the Delay effect, for a warm, dynamic distortion of the signal. Set this in conjunction with the FDB parameter on the DELAY page to produce anything from a tinge of shear to a very aggressive four-pound barrage of overtones.

DEL (Delay Dist/Comp) sets the Delay effect to return before (PRE), or after (POST) the signal is subject to distortion and compression. The default setting is before.

REV (Reverb Dist/Comp) sets the Reverb effect to return before (PRE), or after (POST) the signal is subject to distortion and compression. The default setting is after.

B.4 COMPRESSOR

The Compressor master effect compresses the dynamic range of the signal by reducing the volume of loud sounds relative to the quiet sounds. There are eight parameters with which the compressor is customized on this page.

COMP



THR (Threshold) sets the threshold of the compressor. A lower threshold means a larger portion of the signal will be subject to compression.

ATK (Attack) sets the time of the compressor attack phase, i.e., how quickly the compressor responds to loud peaks. The time of the attack phase is set in milliseconds. (0.03–30)

REL (Release) sets the time of the compressor release phase, i.e., how long it takes for the compression to recover in quieter moments. The time is set in seconds. Range (0.1–2, A1 or A2). A1 and A2 are two types of auto release phases, (A2) being slightly longer than (A1).

MUP (Makeup Gain) sets the makeup gain of the compressor output, to compensate for the reduced signal levels caused by compression.

RAT (Compression Ratio) There are four different compression ratios, 1:2, 1:4, 1:8 and MAX. Higher ratios result in greater compression of the signal.

SEQ (Sidechain EQ) filters the signal before it is analyzed by the compressor in one of the following ways:

- **OFF** lets the sidechain signal remain unchanged.
- **LPF** lowpass filters the signal before analysis, making the compressor react mostly to the bass. Use this setting for a characteristic pumping compressor sound.
- **HPF** passes the signal through a highpass filter before it is analyzed, making the compressor react less to the bass. Use this setting to avoid pumping.
- **HIT** results in a balanced equalization of the sidechain signal, making the compressor react similarly to all frequencies of the signal.

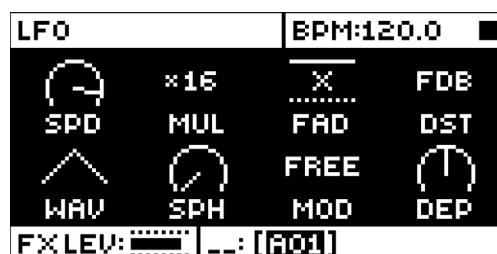
MIX (Dry/Wet Mix) sets the mix of the uncompressed signal and the compressor output signal. The left extreme setting results in a completely uncompressed signal. The extreme right setting lets only the compressed signal pass through. All values in between mix the uncompressed signal with the compressed signal, also known as parallel compression. A definitive Motown compression effect may be achieved at moderate MIX settings combined with high RAT and low MUP settings. (0–127)

VOL (Volume) sets the volume of the output signal.

B.5 FX LFO

The FX track LFO page parameters are shown and explained below.

LFO



SPD (Speed) sets the speed of the LFO. For the LFO to be synced to straight beats, try settings of 8, 16 or 32. The knob is bi-polar. The LFO cycle can be played backward by using negative values.

MUL (Multiplier) multiplies the SPD parameter by the set factor. (x) multiplies the current tempo, (dot) syncs the LFO to 120 BPM regardless of the tempo. 24 settings: (12 tempo synced, 12 free).

FAD (Fade In/Out) makes it possible to fade in/fade out the LFO modulation. The knob is bipolar. Positive values give a fade-out, negative values give a fade-in. A mid position (0) will result in no fade in/fade out.

DST (Destination) selects the destination for the LFO. A list will appear when you turn the knob. Choose a parameter from any of the parameter pages. Turn the knob clockwise to go down the list, counter-clockwise to go up. Preview how the LFO modulation will affect the sound by highlighting a destination. Confirm a selection by pressing [YES].

WAV (Waveform) sets the LFO waveform. There are seven waveforms: Triangle, Sine, Square, Sawtooth, Exponential, Ramp, and Random.

SPH (Start Phase) sets the wave phase where the LFO will start when it is triggered. (0–127) 0 is the start of a complete wave cycle, and 127 is the end point. 64 is the dead center. If **WAV** is set to RND then the **SPH** parameter will instead add slew to the transitions in the waveform.

MOD (Trig Mode) sets how the LFO will act when a note is triggered. Five settings exist.

- **FREE** is the default free-running mode. It makes the LFO run continuously, never restarting or stopping.
- **TRIG** makes the LFO restart when a note is triggered.
- **HOLD** makes the LFO run free in the background, but when a note is triggered the LFO output level is latched and held still until the next note is triggered.
- **ONE** The LFO starts when a note is triggered, then runs to the end of the waveform and then stops. This makes the LFO function similar to an envelope.
- **HALF** The LFO starts when a note is triggered, then runs to the middle of the waveform and then stops.

DEP (Depth) sets the depth and polar orientation of the LFO modulation. Both negative (inverted) and positive modulation depth is possible. Positive values start the oscillation toward the crest phase of the wave. Negative values start toward the trough phase of the wave. A dead center setting, 0, equals no modulation depth at all.

APPENDIX C: MIDI

This appendix lists the CC and NRPN specification for the Analog Rytm MKII.

C.1 GENERAL TRIG PARAMETERS

TRIG PARAMETERS				
Parameter	CC MSB	CC LSB	NRPN MSB	NRPN LSB
Note	3		3	0
Velocity	4		3	1
Length	5		3	2
Synth Trig	11		3	3
Sample Trig	12		3	4
ENV Trig	13		3	5
LFO TRIG	14		3	6

C.2 EUCLIDEAN SEQUENCER PARAMETERS

EUCLIDEAN PARAMETERS				
Parameter	CC MSB	CC LSB	NRPN MSB	NRPN LSB
Pulse Generator 1	86		3	8
Pulse Generator 2	87		3	9
Euclidean on/off	117		3	14
Rotation Generator 1	89		3	11
Rotation Generator 2	90		3	12
Track Rotation	91		3	13
Boolean Operator	88		3	10

C.3 GENERAL KIT PARAMETERS

COMMON				
Parameter	CC MSB	CC LSB	NRPN MSB	NRPN LSB
Track Level	95		1	100
Track Mute (seq. mute)	94		1	101
Track Solo (seq. mute)	93		1	102
Track Machine Type	15		1	103
Active Scene	92		1	104

C.4 PERFORMANCE PARAMETERS

PERFORMANCE				
Parameter	CC MSB	CC LSB	NRPN MSB	NRPN LSB
Performance Parameter 1	35		0	0
Performance Parameter 2	36		0	1
Performance Parameter 3	37		0	2
Performance Parameter 4	39		0	3
Performance Parameter 5	40		0	4
Performance Parameter 6	41		0	5
Performance Parameter 7	42		0	6
Performance Parameter 8	43		0	7
Performance Parameter 9	44		0	8
Performance Parameter 10	45		0	9

PERFORMANCE				
Parameter	CC MSB	CC LSB	NRPN MSB	NRPN LSB
Performance Parameter 11	46		0	10
Performance Parameter 12	47		0	11

C.5 GENERAL SYNTH PARAMETERS

Note that the order of the SYNTH parameters below will sometimes differ from the order of the parameters shown on the SRC page of the RYTM. See the section MACHINE PARAMETERS below for a more detailed list.

SYNTH				
Parameter	CC MSB	CC LSB	NRPN MSB	NRPN LSB
Synth Parameter 1	16		1	0
Synth Parameter 2	17		1	1
Synth Parameter 3	18		1	2
Synth Parameter 4	19		1	3
Synth Parameter 5	20		1	4
Synth Parameter 6	21		1	5
Synth Parameter 7	22		1	6
Synth Parameter 8	23		1	7

SAMPLE				
Parameter	CC MSB	CC LSB	NRPN MSB	NRPN LSB
Sample Tune	24		1	8
Sample Fine tune	25		1	9
Sample Bit Reduction	26		1	10
Sample Slot	27		1	11
Sample Start	28		1	12
Sample End	29		1	13
Sample Loop	30		1	14
Sample Level	31		1	15

FILTER				
Parameter	CC MSB	CC LSB	NRPN MSB	NRPN LSB
Filter Attack Time	70		1	16
Filter Decay Time	71		1	17
Filter Sustain Level	72		1	18
Filter Release Time	73		1	19
Filter Frequency	74		1	20
Filter Resonance	75		1	21
Filter Mode	76		1	22
Filter Env Depth	77		1	23

AMP				
Parameter	CC MSB	CC LSB	NRPN MSB	NRPN LSB
Amp Attack Time	78		1	24
Amp Hold Time	79		1	25

AMP				
Parameter	CC MSB	CC LSB	NRPN MSB	NRPN LSB
Amp Decay Time	80		1	26
Amp Overdrive	81		1	27
Amp Delay Send	82		1	28
Amp Reverb Send	83		1	29
Amp Pan	10		1	30
Amp Volume	7		1	31

C.6 LFO PARAMETERS

Note that the LFO depth is a high-resolution parameter, with CC LSB value.

LFO				
Parameter	CC MSB	CC LSB	NRPN MSB	NRPN LSB
LFO Speed	102		1	32
LFO Multiplier	103		1	33
LFO Fade In/Out	104		1	34
LFO Destination	105		1	35
LFO Waveform	106		1	36
LFO Start Phase	107		1	37
LFO Trig Mode	108		1	38
LFO Depth	109	118	1	39

C.7 FX PARAMETERS

DELAY				
Parameter	CC MSB	CC LSB	NRPN MSB	NRPN LSB
Delay Time	16		2	0
Delay Pingpong	17		2	1
Delay Stereo Width	18		2	2
Delay Feedback	19		2	3
Delay Highpass Filter	20		2	4
Delay Lowpass Filter	21		2	5
Delay Reverb Send	22		2	6
Delay Mix Volume	23		2	7

REVERB				
Parameter	CC MSB	CC LSB	NRPN MSB	NRPN LSB
Reverb Predelay	24		2	8
Reverb Decay Time	25		2	9
Reverb Shelving Freq	26		2	10
Reverb Shelving Gain	27		2	11
Reverb Highpass Filter	28		2	12
Reverb Lowpass Filter	29		2	13
Reverb Mix Volume	31		2	15

DISTORTION				
Parameter	CC MSB	CC LSB	NRPN MSB	NRPN LSB
Dist Amount	70		2	16
Dist Symmetry	71		2	17
Delay Overdrive	72		2	18
Delay Dist/Comp Routing (pre/post)	76		2	22
Reverb Dist/Comp Routing (pre/post)	77		2	23

COMPRESSOR				
Parameter	CC MSB	CC LSB	NRPN MSB	NRPN LSB
Compressor Threshold	78		2	24
Compressor Attack Time	79		2	25
Compressor Release Time	80		2	26
Compressor Makeup Gain	81		2	27
Compressor Ratio	82		2	28
Compressor Sidechain EQ	83		2	29
Compressor Dry/Wet Mix	84		2	30
Compressor Output Volume	85		2	31

C.8 MACHINE PARAMETERS

The following shows the SYNTH parameters per MACHINE type.

BD PLASTIC				
Parameter	CC MSB	CC LSB	NRPN MSB	NRPN LSB
Level	16		1	0
Tune	17		1	1
Decay Time	18		1	2
Sweep Depth	19		1	3
Sweep Time	20		1	4
Hold Time	21		1	5
VCO Click	22		1	6
Dust Level	23		1	7

BD SHARP				
Parameter	CC MSB	CC LSB	NRPN MSB	NRPN LSB
Level	16		1	0
Tune	17		1	1
Decay	18		1	2
Sweep Depth	19		1	3
Sweep Time	20		1	4
Hold Time	21		1	5
Tick Level	22		1	6
Waveform	23		1	7

BD HARD

Parameter	CC MSB	CC LSB	NRPN MSB	NRPN LSB
Level	16		1	0
Tune	17		1	1
Decay	18		1	2
Hold	19		1	3
Sweep Time	20		1	4
Sweep Depth	21		1	5
Waveform	22		1	6
Transient Tick	23		1	7

BD CLASSIC

Parameter	CC MSB	CC LSB	NRPN MSB	NRPN LSB
Level	16		1	0
Tune	17		1	1
Decay	18		1	2
Hold	19		1	3
Sweep Time	20		1	4
Sweep Depth	21		1	5
Waveform	22		1	6
Transient Tick	23		1	7

BD FM

Parameter	CC MSB	CC LSB	NRPN MSB	NRPN LSB
Level	16		1	0
Tune	17		1	1
Decay	18		1	2
FM Amount	19		1	3
Sweep Time	20		1	4
FM Sweep Time	21		1	5
FM Decay Time	22		1	6
FM Tune	23		1	7

BD SILKY

Parameter	CC MSB	CC LSB	NRPN MSB	NRPN LSB
Level	16		1	0
Tune	17		1	1
Decay	18		1	2
Sweep Depth	19		1	3
Sweep Time	20		1	4
Hold	21		1	5
VCO Click	22		1	6
Dust Level	23		1	7

BD ACOUSTIC				
Parameter	CC MSB	CC LSB	NRPN MSB	NRPN LSB
Level	16		1	0
Tune	17		1	1
Decay	18		1	2
Sweep Depth	19		1	3
Sweep Time	20		1	4
Hold Time	21		1	5
Impact	22		1	6
Waveform	23		1	7

SD NATURAL				
Parameter	CC MSB	CC LSB	NRPN MSB	NRPN LSB
Level	16		1	0
Tune	17		1	1
Body Decay	18		1	2
Noise Decay	19		1	3
Noise LPF	20		1	4
Noise Balance	21		1	5
Noise Resonance	22		1	6
Noise HPF	23		1	7

SD HARD				
Parameter	CC MSB	CC LSB	NRPN MSB	NRPN LSB
Level	16		1	0
Tune	17		1	1
Decay	18		1	2
Sweep Depth	19		1	3
Tick Level	20		1	4
Noise Decay	21		1	5
Noise Level	22		1	6
Sweep Time	23		1	7

SD CLASSIC				
Parameter	CC MSB	CC LSB	NRPN MSB	NRPN LSB
Level	16		1	0
Tune	17		1	1
Decay	18		1	2
Detune	19		1	3
Snap Amount	20		1	4
Noise Decay	21		1	5
Noise Level	22		1	6
Osc Balance	23		1	7

SD FM				
Parameter	CC MSB	CC LSB	NRPN MSB	NRPN LSB
Level	16		1	0
Tune	17		1	1
Decay	18		1	2
FM Tune	19		1	3
FM Decay Time	20		1	4
Noise Decay	21		1	5
Noise Level	22		1	6
FM Amount	23		1	7

SD ACOUSTIC				
Parameter	CC MSB	CC LSB	NRPN MSB	NRPN LSB
Level	16		1	0
Tune	17		1	1
Decay	18		1	2
Noise Decay	19		1	3
Hold Time	20		1	4
Noise Level	21		1	5
Impact	22		1	6
Sweep Depth	23		1	7

RS HARD				
Parameter	CC MSB	CC LSB	NRPN MSB	NRPN LSB
Level	16		1	0
Tune	17		1	1
Decay	18		1	2
Sweep Depth	19		1	3
Tick Level	20		1	4
Noise Level	21		1	5
Symmetry	22		1	6
Sweep Time	23		1	7

RS CLASSIC				
Parameter	CC MSB	CC LSB	NRPN MSB	NRPN LSB
Level	16		1	0
Tune Osc 1	17		1	1
Decay	18		1	2
Osc Balance	19		1	3
Tune Osc 2	20		1	4
Symmetry	21		1	5
Noise Level	22		1	6
Tick Level	23		1	7

CP CLASSIC				
Parameter	CC MSB	CC LSB	NRPN MSB	NRPN LSB
Level	16		1	0
Noise Tone	17		1	1
Noise Decay	18		1	2
Clap Number	19		1	3
Clap Rate	20		1	4
Noise Level	21		1	5
Random Claps	22		1	6
Clap Decay	23		1	7

SY DUAL VCO				
Parameter	CC MSB	CC LSB	NRPN MSB	NRPN LSB
Level	16			
Osc 1 Tune	17			
Osc 1 Decay	18			
Balance	19			
Osc 2 Detune	20			
Osc Config	21			
Osc 2 Decay	22			
Bend	23			

SY CHIP				
Parameter	CC MSB	CC LSB	NRPN MSB	NRPN LSB
Level	16			
Tune	17			
Decay	18			
Waveform	19			
Speed	20			
Offset 2	21			
Offset 3	22			
Offset 4	23			

SY RAW				
Parameter	CC MSB	CC LSB	NRPN MSB	NRPN LSB
Level	16			
Tune	17			
Decay	18			
Noise Level	19			
Osc 2 Detune	20			
Waveform 1	21			
Waveform 2	22			
Balance	23			

BT CLASSIC				
Parameter	CC MSB	CC LSB	NRPN MSB	NRPN LSB
Level	16		1	0
Tune	17		1	1
Decay	18		1	2
Sweep Depth	19		1	3
Noise Level	20		1	4
Snap Type	21		1	5

LT, MT, HT CLASSIC				
Parameter	CC MSB	CC LSB	NRPN MSB	NRPN LSB
Level	16		1	0
Tune	17		1	1
Decay	18		1	2
Sweep Depth	19		1	3
Sweep Time	20		1	4
Noise Decay	21		1	5
Noise Level	22		1	6
Noise Tone	23		1	7

CH CLASSIC				
Parameter	CC MSB	CC LSB	NRPN MSB	NRPN LSB
Level	16		1	0
Tune	17		1	1
Decay	18		1	2
Color	19		1	3

CH METALLIC				
Parameter	CC MSB	CC LSB	NRPN MSB	NRPN LSB
Level	16		1	0
Tune	17		1	1
Decay Time	18		1	2

OH CLASSIC				
Parameter	CC MSB	CC LSB	NRPN MSB	NRPN LSB
Level	16		1	0
Tune	17		1	1
Decay	18		1	2
Color	19		1	3

OH METALLIC				
Parameter	CC MSB	CC LSB	NRPN MSB	NRPN LSB
Level	16		1	0
Tune	17		1	1
Decay Time	18		1	2

HH BASIC				
Parameter	CC MSB	CC LSB	NRPN MSB	NRPN LSB
Level	16		1	0
Tune	17		1	1
Decay Time	18		1	2
Tone	19		1	3
Transient Decay	20		1	4
Osc Reset	21		1	5

HH LAB				
Parameter	CC MSB	CC LSB	NRPN MSB	NRPN LSB
Level	16		1	0
Tune 1	17		1	1
Decay Time	18		1	2
Tune 2	19		1	3
Tune 3	20		1	3
Tune 4	21		1	3
Tune 5	22		1	4
Tune 6	23		1	5

CY METALLIC				
Parameter	CC MSB	CC LSB	NRPN MSB	NRPN LSB
Level	16		1	0
Tune	17		1	1
Decay Time	18		1	2
Tone	19		1	3
Transient Decay	20		1	4

CY CLASSIC				
Parameter	CC MSB	CC LSB	NRPN MSB	NRPN LSB
Level	16		1	0
Tune	17		1	1
Decay	18		1	2
Color	19		1	3
Tone	20		1	4

CY RIDE				
Parameter	CC MSB	CC LSB	NRPN MSB	NRPN LSB
Level	16		1	0
Tune	17		1	1
Tail Decay	18		1	2
Hit Decay	19		1	3
Cymbal Type	20		1	4
Component 1	21		1	5
Component 2	22		1	6
Component 3	23		1	7

CB CLASSIC & METALLIC				
Parameter	CC MSB	CC LSB	NRPN MSB	NRPN LSB
Level	16		1	0
Tune	17		1	1
Decay Time	18		1	2
Detune	19		1	3

UT NOISE				
Parameter	CC MSB	CC LSB	NRPN MSB	NRPN LSB
Level	16		1	0
LP Frequency	17		1	1
Decay	18		1	2
Sweep Depth	19		1	3
Sweep Time	20		1	4
LP Resonance	21		1	5
HP Frequency	22		1	6
Attack	23		1	7

UT IMPULSE				
Parameter	CC MSB	CC LSB	NRPN MSB	NRPN LSB
Level	16		1	0
Attack	17		1	1
Decay	18		1	2
Polarity	19		1	3

C.8 MIDI NOTE TRIGGERS

Some functions of the Analog Rytm MKII can be triggered by sending MIDI note values from an external MIDI device.

Note that the tracks needs to be set to their default channels 1–12 to be triggered by C0–B0. For more information, please see “8.6 MIDI NOTES” on page 22.

NOTE	FUNCTION
C0(0)	Triggers Sound Track 1
C#0 (1)	Triggers Sound Track 2
D0 (2)	Triggers Sound Track 3
D#0 (3)	Triggers Sound Track 4
E0 (4)	Triggers Sound Track 5
F0 (5)	Triggers Sound Track 6
F#0 (6)	Triggers Sound Track 7
G0 (7)	Triggers Sound Track 8
G#0 (8)	Triggers Sound Track 9
A0 (9)	Triggers Sound Track 10
A#0 (10)	Triggers Sound Track 11
B0 (11)	Triggers Sound Track 12
C1 (12) – B4 (59)	Triggers the active track chromatically

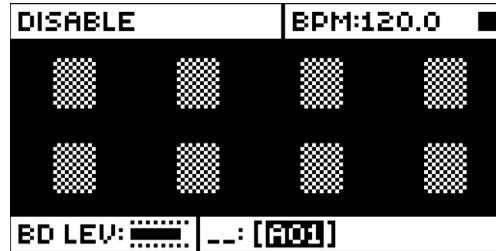
APPENDIX D: MACHINES

This appendix lists the parameters on the SRC page of the drum tracks. The parameters available are determined by the MACHINE that are selected. There are several MACHINES to choose from. For more information, please see "8.2 MACHINES" on page 21.

The MACHINES below can be used on all tracks: BD, SD, RS, CP, BT, LT, MT, HT, CH, OH, CY and CB.

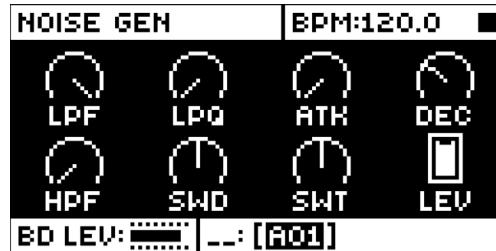
D.1 ALL

DISABLE (MACHINE DISABLED)



There are no parameters on the SRC page when it is disabled. Select DISABLE, then save, to be able to make a sample-based Sound accessible, for loading and Sound Locking, on any of the 12 Tracks.

UT NOISE (WHITE NOISE GENERATOR)



LPF (LP Filter) sets the lowpass filter cutoff frequency.

LPQ (LP Resonance) sets the amount of resonance around the cutoff frequency of the LP Filter. Zero value quenches resonance altogether.

ATK (Attack) sets the length of the attack phase.

DEC (Decay) sets the length of the decay phase.

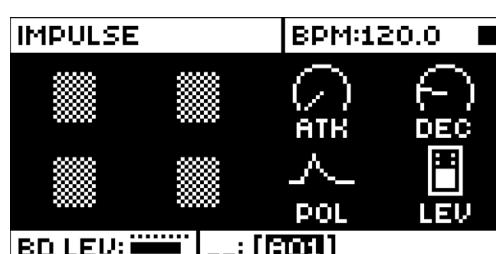
HPF (HP Filter) sets the highpass filter cutoff frequency.

SWD (Sweep Depth) sets the depth of the LP Filter sweep. Negative as well as positive sweeps are possible.

SWT (Sweep Time) sets the length of the sweep from the depth set by SWD. Low values result in snappy sweeps, high values result in longer sweeps.

LEV (Level) sets the overall sound volume of the machine.

UT IMPULSE (POSITIVE/NEGATIVE POLARITY IMPULSE)



ATK (Attack) sets the length of the attack phase.

DEC (Decay) sets the length of the decay phase.

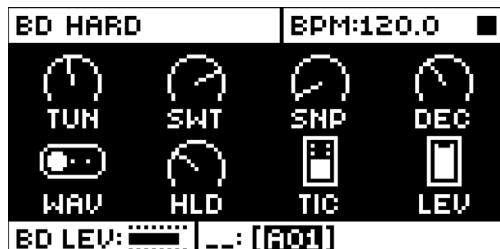
POL (Polarity) sets the polarity, positive or negative. (POS, NEG)

LEV (Level) sets the overall sound volume of the machine.

The MACHINES below can be used on the BD, SD, RS and CP tracks.

D.2 BASS DRUM

BD HARD



TUN (Tune) sets the pitch (in semi-tones) of the oscillator.

SWT (Sweep Time) sets the pitch sweep time. The depth of the sweep is fixed.

SNP (Snap Amount) sets the snap transient level.

DEC (Decay) sets the length of the decay phase.

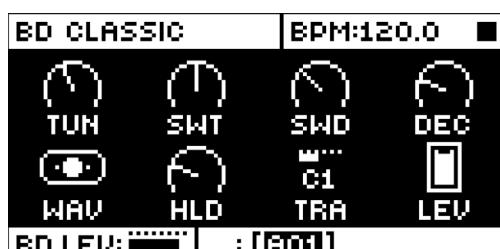
WAV (Waveform) sets the oscillator waveform to sine, asymmetric sine or triangle.

HLD (Hold Time) sets the hold time, the time before the decay phase starts.

TIC (Tick Level) sets the level of the transient tick.

LEV (Level) sets the overall sound volume of the machine.

BD CLASSIC



TUN (Tune) sets the pitch (in semi-tones) of the oscillator.

SWT (Sweep Time) sets the pitch sweep time. Low values result in a short sweep.

SWD (Sweep Depth) sets the depth of the pitch sweep.

DEC (Decay) sets the length of the decay phase.

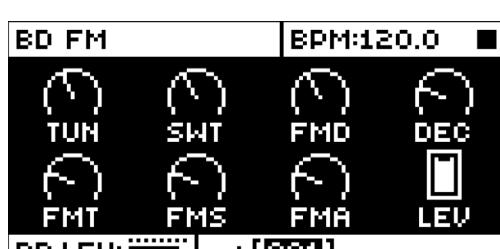
WAV (Waveform) sets the oscillator waveform to sine, asymmetric sine or triangle.

HLD (Hold Time) sets the hold time, the time before the decay phase starts.

TRA (Transient) sets the tick or noise transient sound and its level.

LEV (Level) sets the overall sound volume of the machine.

BD FM



TUN (Tune) sets the pitch (in semitones) of the first (modulated) oscillator.

SWT (Sweep Time) sets the pitch sweep time of the first (modulated) oscillator.

FMD (FM Decay) sets the length of the decay phase of the second (modulating) oscillator and, consequently, the decay time of the FM effect.

DEC (Decay) sets the length of the decay phase of the first (modulated) oscillator and, consequently, the whole drum sound.

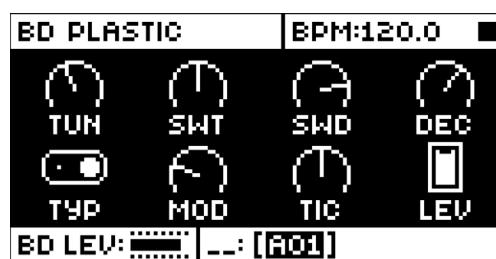
FMT (FM Tune) sets the pitch of the second (modulating) oscillator.

FMS (FM Sweep Time) sets the pitch sweep time of the second (modulating) oscillator.

FMA (FM Amount) sets the amount of frequency modulation the second oscillator subjects the first to.

LEV (Level) sets the overall sound volume of the machine.

BD PLASTIC



TUN (Tune) sets the pitch (in semitones) of the two interacting oscillators.

SWT (Sweep Time) sets the pitch sweep time of the two interacting oscillators.

SWD (Sweep Depth) sets the depth of the pitch sweep.

DEC (Decay) sets the length of the decay phase.

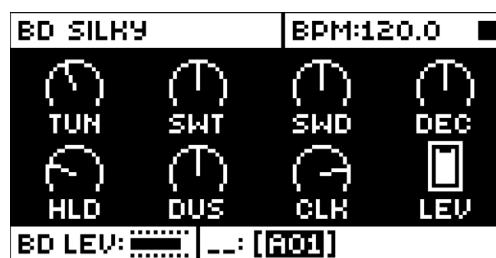
TYP (Modulation Type) The first (A) is linear Frequency Modulation between the oscillators. The second (B) is FM combined with ring modulation.

MOD (Modulation Level) sets modulation depth. Both types of modulation (A, B) produce distinctive harmonics and the plastic buoyancy for which this drum model is so aptly named.

TIC (Tick Level) sets the level of the transient tick.

LEV (Level) sets the overall sound volume of the machine.

BD SILKY



TUN (Tune) sets the pitch (in semitones) of the oscillator.

SWT (Sweep Time) sets the pitch sweep time.

SWD (Sweep Depth) sets the depth of the pitch sweep.

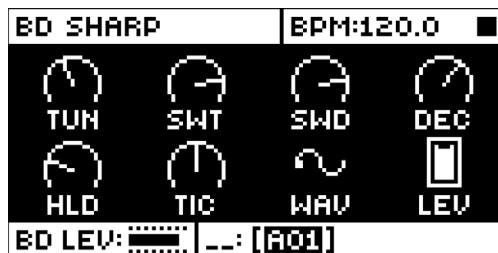
DEC (Decay) sets the length of the decay phase.

HLD (Hold Time) sets the length of the hold phase.

DUS (Dust Level) sets the level of subtle tape-like static.

CLK (VCO Click) sets the soft, oscillator-generated click level.

LEV (Level) sets the overall sound volume of the machine.

BD SHARP

TUN (Tune) sets the pitch (in semitones) of the oscillator.

SWT (Sweep Time) sets the pitch sweep time.

SWD (Sweep Depth) sets the depth of the pitch sweep.

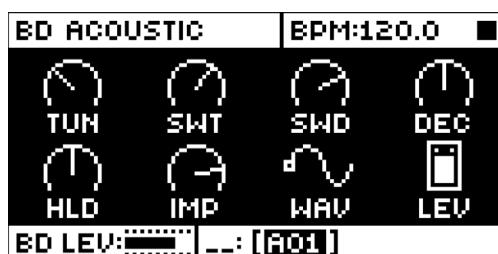
DEC (Decay) sets the length of the decay phase.

HLD (Hold Time) sets the length of the hold phase.

TIC (Tick Level) sets the level of transient tick.

WAV (Waveform) sets the waveform. There are six waveforms to choose from (Sine, Asymmetric Sine, Triangle, Sinetooth, Sawtooth, and Square), and there is a choice between letting the oscillator run freely, or have it reset each time the synth is triggered (wave graphics showed with an anchor point on the LCD).

LEV (Level) sets the overall sound volume of the machine.

BD ACOUSTIC

TUN (Tune) sets the pitch (in semi-tones) of the oscillator.

SWT (Sweep Time) sets the pitch sweep time.

SWD (Sweep Depth) sets the depth of the pitch sweep.

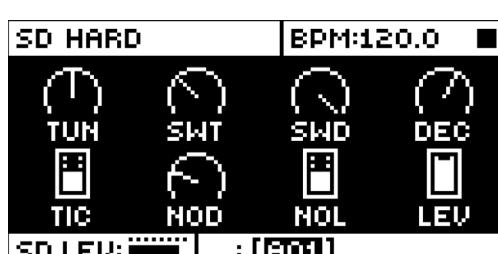
DEC (Decay) sets the length of the decay phase.

HLD (Hold Time) sets the length of the hold phase.

IMP (Impact) sets the level of the digital transient. The transient consists of a mix of PCM and noise.

WAV (Waveform) sets the waveform. There are six waveforms to choose from (Sine, Asymmetric Sine, Triangle, Sinetooth, Sawtooth, and Square), and there is a choice between letting the oscillator run freely, or have it reset each time the synth is triggered (wave graphics showed with an anchor point on the LCD).

LEV (Level) sets the overall sound volume of the machine.

D.3 SNARE DRUM**SD HARD**

TUN (Tune) sets the pitch (in semitones) of the oscillators. The interval between them is fixed.

SWT (Sweep Time) sets the pitch sweep time.

SWD (Sweep Depth) sets the depth of the pitch sweep.

DEC (Decay) sets the length of the decay phase.

TIC (Tick Level) sets the level of the transient tick.

NOD (Noise Decay) sets the length of the noise decay phase.

NOL (Noise Level) sets the noise level.

LEV (Level) sets the overall sound volume of the machine.

SD CLASSIC



TUN (Tune) sets the common pitch (in semitones) of the oscillators.

DET (Detune) sets the pitch of the second oscillator in relation to the first.

BAL (Osc Balance) sets the balance between the levels of oscillator 1 and oscillator 2.

DEC (Decay) sets the length of the decay phase.

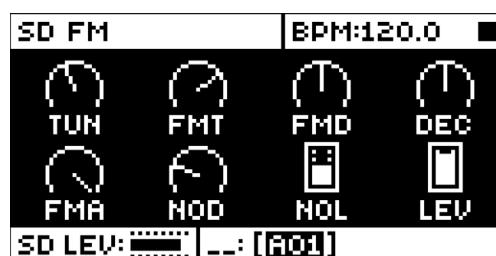
SNP (Snap Amount) sets the snap transient level.

NOD (Noise Decay) sets the length of the noise decay phase.

NOL (Noise Level) sets the noise level.

LEV (Level) sets the overall sound volume of the machine.

SD FM



TUN (Tune) sets the pitch (in semitones) of the first (modulated) oscillator.

FMT (FM Tune) sets the pitch of the second (modulating) oscillator.

FMD (FM Decay Time) sets the decay time of the second (modulating) oscillator and, consequently, the decay time of the FM effect.

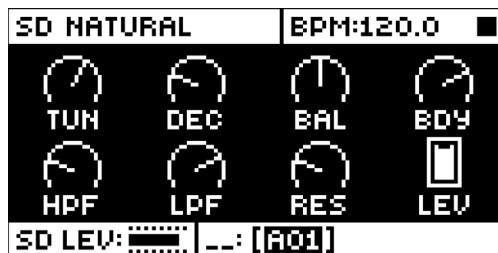
DEC (Decay) sets the length of the decay phase of the first (modulated) oscillator and, consequently, the whole drum sound.

FMA (FM Amount) sets the amount of frequency modulation the second oscillator subjects the first to. (0–127)

NOD (Noise Decay) sets the length of the noise decay phase.

NOL (Noise Level) sets the noise level.

LEV (Level) sets the overall sound volume of the machine.

SD NATURAL

TUN (Tune) sets the pitch (in semitones) of the first oscillator.

DEC (Noise Decay) sets the length of the noise decay.

BAL (Noise Balance) sets the balance between noise and oscillator.

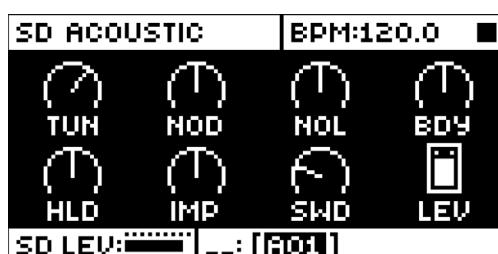
BDY (Decay Time) sets the length of the decay phase of the oscillator.

HPF (Noise HPF) sets the noise highpass filter cutoff frequency.

LPF (Noise LPF) sets the noise lowpass filter cutoff frequency.

RES (Noise Resonance) adds a resonant peak to the Noise LPF. Zero value quenches noise resonance altogether.

LEV (Level) sets the overall sound volume of the machine.

SD ACOUSTIC

TUN (Tune) sets the pitch (in semi-tones) of the oscillator.

NOD (Noise Decay) sets the length of the noise decay.

NOL (Noise Balance) sets the level of the noise.

BDY (Decay Time) sets the length of the decay phase of the oscillator.

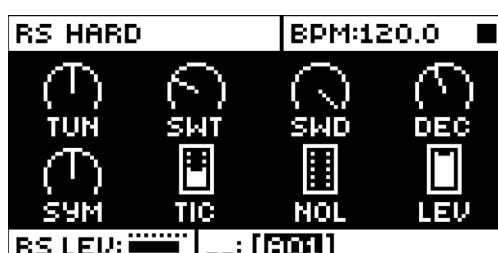
HLD (Hold Time) sets the length of the hold phase.

IMP (Impact) sets the level of the digital transient. The transient consists of a mix of PCM and noise.

SWD (Sweep Depth) sets the depth of the pitch sweep.

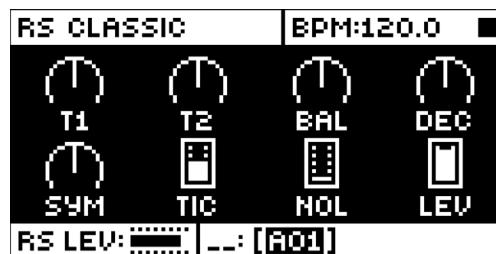
LEV (Level) sets the overall sound volume of the machine.

The MACHINES below can only be used on the RS and CP tracks.

D.4 RIMSHOT**RS HARD**

TUN (Tune) sets the pitch (in semitones) of the oscillator.
SWT (Sweep Time) sets the pitch sweep time.
SWD (Sweep Depth) sets the depth of the pitch sweep.
DEC (Decay) sets the length of the decay phase.
SYM (Symmetry) adjusts the nonlinearity in the special rimshot circuit.
TIC (Tick Level) sets the level of the transient tick.
NOL (Noise Level) sets the noise level.
LEV (Level) sets the overall sound volume of the machine.

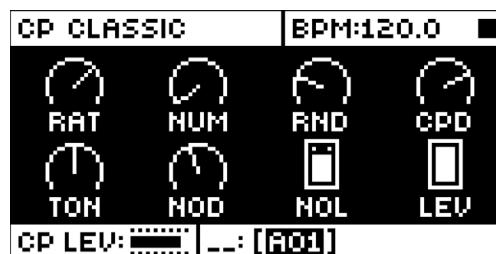
RS CLASSIC



T1 (Tune Osc1) sets the pitch (in semitones) of the first oscillator.
T2 (Tune Osc2) sets the pitch (in semitones) of the second oscillator.
BAL (Osc Balance) sets the balance between oscillator 1 and oscillator 2.
DEC (Decay) sets the length of the decay phase.
SYM (Symmetry) adjusts the nonlinearity in the special rimshot circuit.
TIC (Tick Level) sets the level of the transient tick.
NOL (Noise Level) sets the noise level.
LEV (Level) sets the overall sound volume of the machine.

D.5 HAND CLAP

CP CLASSIC

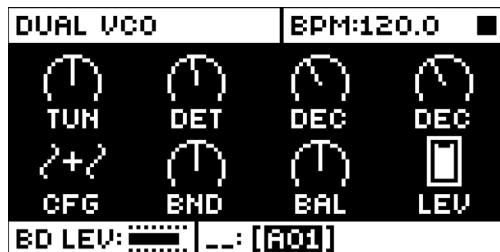


RAT (Clap Rate) sets the rate of the hand claps.
NUM (Clap Number) sets the number of hand claps.
RND (Random Claps) randomizes the timing of the hand claps.
CPD (Clap Decay) sets the length of the decay phase.
TON (Noise Tone) sets the pitch of the noise.
NOD (Noise Decay) sets the length of the decay phase of the noise.
NOL (Noise Level) sets the noise level.
LEV (Level) sets the overall sound volume of the machine.

The MACHINES below can be used on the BD, SD, RS and CP tracks.

D.6 SYNTH

SY DUAL VCO



TUN (Osc 1 Tune) sets the pitch (in semitone) of oscillator 1. Value 0 corresponds to note C-2. One octave corresponds to 24 units.

DET (Osc 2 Detune) sets the pitch (in semitones) of oscillator 2, relative to oscillator 1. One octave corresponds to 48 units.

DEC (Osc 1 Decay) sets the decay time of oscillator 1 level.

DEC (Osc 2 Decay) sets the decay time of oscillator 2 level.

CFG (Osc Config) selects the waveforms and interaction of the two oscillators. There are two different waveforms for oscillator 1 (sine, sinesaw) and five different waveforms for oscillator 2 (sine, skewed sine, triangle, sinesaw, saw).

“+” = Mixes the oscillators.

“R” = Ring modulation.

“F” = Frequency modulation (linear) with osc 1 as the carrier. (Does not pitch track 100% correct)

“FR” = Frequency modulation (linear) and Ring modulation (Does not pitch track 100% correct)

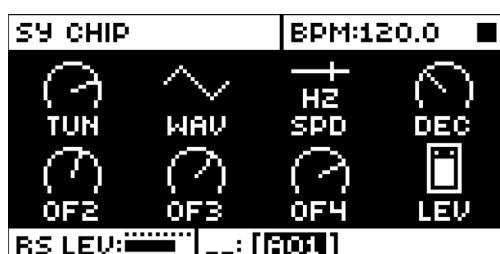
“_” = Resets the oscillators on trig.

BND (Bend) sets the depth of a fixed time pitch envelope. One octave corresponds to 24 units.

BAL (Balance) controls the levels of the two oscillators. At a value of 0, both are max. Negative values attenuate oscillator 2. Positive values attenuate oscillator 1.

LEV (Level) sets the overall sound volume of the machine.

SY CHIP



SY CHIP is inspired by a technique used in 80:s home computers that uses an internal arpeggiator to change between selected notes at a high speed to create the illusion of playing a chord. It is also useful for creating a certain type of drum sounds. The root note will be followed by up to three notes, offset from the note.

TUNE (Tune) sets the pitch (in semi-tones) of the oscillator.

WAV (Waveform) sets the waveform of the oscillator.

- Static waveforms

Analog sine, asymmetric sine, triangle, sinesaw, saw, square

Digital SID-style noise (pitched)

- Animated waveforms (repeating):

Anim 1-4: Ringmodulated analog variants

Anim 5: Alternating analog waveforms, animated at note speed

PWM+ : Digital pulse wave, animated at note speed from 50%

PWM- : Digital pulse wave, animated at note speed from 10%

- Table-based waveforms (non repeating alternating waveforms, TRI as an example)

.TRI : Short noise-burst, then triangle

+TRI : Noise, then triangle

TRI+ : Triangle, noise, then triangle

TRI* : Triangle, noise, noise, then triangle

TBL1, TBL2, TBL3 : Short noise-burst, then a selection of waveforms

- Digital pulse wave (1 to 99%)

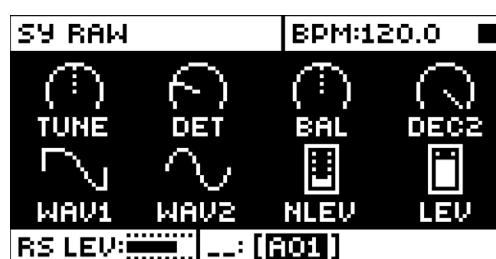
SPD (Speed) sets the speed of the internal arpeggiator. First range of values are note divisions of the set BPM. Second range of values are fixed values in Hz. At the end of the list are a number of values which sets the arpeggiator in “single-shot” mode, where the arpeggiator will not restart.

DEC (Decay) sets the length of the decay phase.

OF2-4 (Offset 2-4) sets three note offsets from the pitch set by TUNE. Basically by selecting different offsets, you create different “chords”. A value of 0 restarts the arpeggiator (or stops it, in case of single-shot arps).

LEV (Level) sets the overall sound volume of the machine.

SY RAW



TUNE (Osc 1 Tune) sets the pitch of oscillator 1. Value 0 corresponds to note C-2.

DET (Detune) sets the tuning of oscillator 2, relative to oscillator 1.

BAL (Balance) sets the balance between oscillator 1 and oscillator 2..

DEC2 (Osc 2 Decay) sets the decay time of oscillator 2 level.

WAV1 (Osc 1 Wave) selects the waveform of oscillator 1. There are seven waveforms for oscillator 1: sine, asymmetric sine, triangle, sinesaw, assymetric saw, saw, and ring modulator (oscillator 1 ring modulates oscillator 2 using a square wave,

WAV2 (Osc 2 Wave) selects the waveform of oscillator 2. There are two waveforms for oscillator 2: sine, and sinesaw. If the waveform begins with a small square then the phase of both oscillators are reset when triggered.

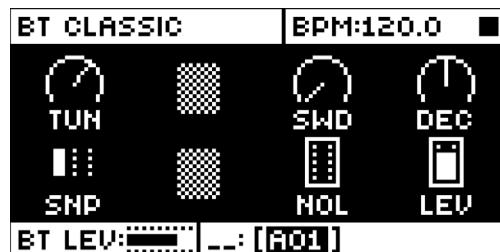
NLEV (Noise Level) sets the noise level.

LEV (Level) sets the overall sound volume of the machine. (0–127)

The MACHINE below can be used on the BT track.

D.7 BASS TOM

BT CLASSIC



TUN (Tune) sets the pitch of the oscillator.

SWD (Sweep Depth) sets the depth of the pitch sweep.

DEC (Decay) sets the length of the decay phase.

SNP (Snap) sets the length of the snap transient.

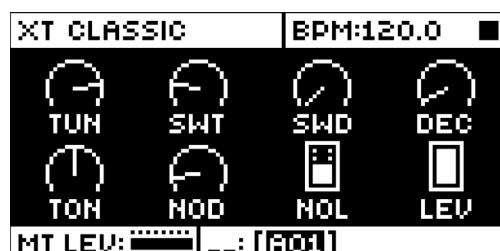
NOL (Noise Level) sets the noise level.

LEV (Level) sets the overall sound volume of the machine.

The MACHINE below can be used on the LT, MT, and HT tracks.

D.8 LOW, MID, HIGH TOM

XT CLASSIC



TUN (Tune) sets the pitch of the oscillator.

SWT (Sweep Time) sets the pitch sweep time.

SWD (Sweep Depth) sets the depth of the pitch sweep.

DEC (Decay) sets the length of the decay phase.

TON (Noise Tone) sets the pitch of the noise.

NOD (Noise Decay) sets the length of the noise decay phase.

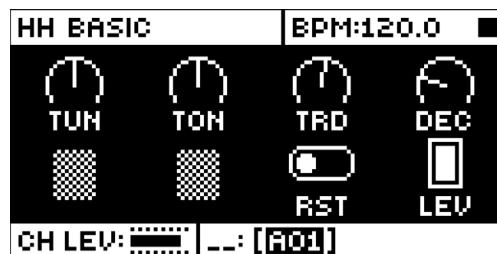
NOL (Noise Level) sets the noise level.

LEV (Level) sets the overall sound volume of the machine.

The MACHINES below can be used on the CH and OH tracks.

D.9 CLOSED HIHAT

HH BASIC



TUN (Tune) sets the pitch of the six oscillators that combine to make the basic hihat sound.

TON (Tone) sets the tone of the sound. Positive values produce an increasingly shrill tone, while negative values result in a deeper tone.

TRD (Transient Decay) sets the length of the transient.

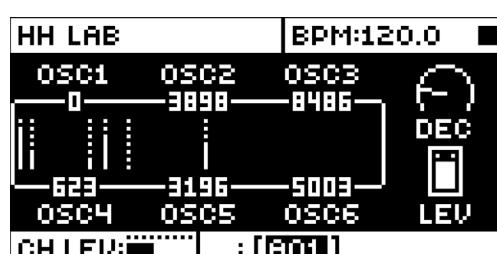
DEC (Decay) sets the length of the hihat sound.

RST (Osc Reset) activate to reset the oscillators for each triggering of the sound, or deactivate to let the oscillators run free.

LEV (Level) sets the overall sound volume of the machine.

HH LAB

Hi-hat Lab lets you access and tune six separate oscillators to more freely shape the sound.

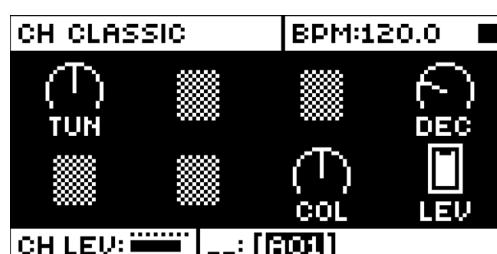


OSC 1-6 (Oscillator Frequency) sets the pitches of the six separate oscillators that makes up the hihat sound.

DEC (Decay) sets the length of the hihat sound.

LEV (Level) sets the overall sound volume of the machine.

CH CLASSIC

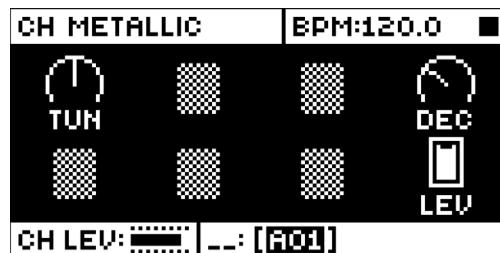


TUN (Tune) sets the pitch of the oscillators of the closed hihat.

DEC (Decay) sets the length of the decay phase of the closed hihat sound.

COL (Noise Color) sets the timbral color, the virtual hardness of the imaginary metal alloy of which the immaterial hihat is made.

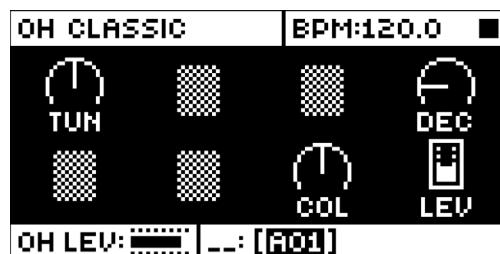
LEV (Level) sets the overall sound volume of the machine.

CH METALLIC

TUN (Tune) sets the pitch of the interacting oscillators of the metallic hihat.

DEC (Decay) sets the length of the decay phase.

LEV (Level) sets the overall sound volume of the machine.

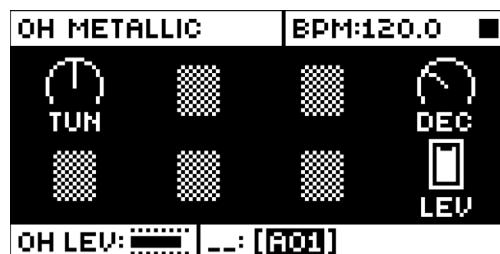
D.10 OPEN HIHAT**OH CLASSIC**

TUN (Tune) sets the pitch of the oscillators of the open hihat.

DEC (Decay) sets the length of the decay phase.

COL (Noise Color) sets the timbral color.

LEV (Level) sets the overall sound volume of the machine.

OH METALLIC

TUN (Tune) sets the pitch of the oscillators of the metallic hihat.

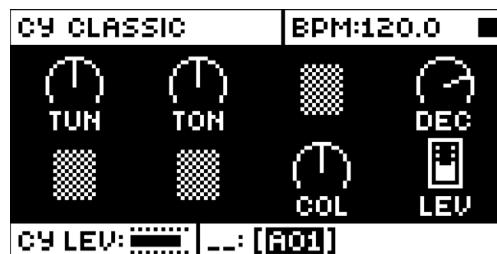
DEC (Decay) sets the length of the decay phase.)

LEV (Level) sets the overall sound volume of the machine

The MACHINES below can be used on the CY and CB tracks.

D.11 CYMBAL

CY CLASSIC



TUN (Tune) sets the pitch of the interacting oscillators of the cymbal.

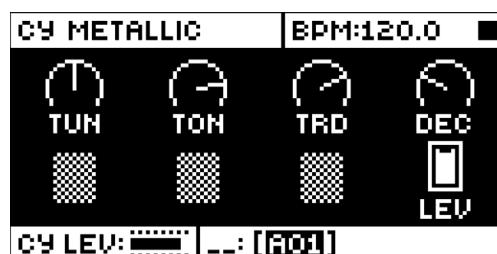
TON (Tone) sets the metallic tone of the cymbal.

DEC (Decay) sets the length of the decay phase of the cymbal sound.

COL (Noise Color) sets the timbral color of the cymbal.

LEV (Level) sets the overall sound volume of the machine.

CY METALLIC



TUN (Tune) sets the pitch of the ring-modulated oscillators of the metallic cymbal.

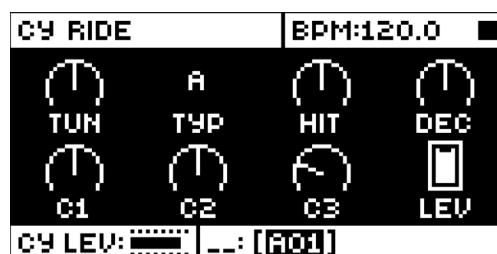
TON (Tone) sets the tone of the metallic transient.

TRD (Transient Decay) sets the length of the transient decay phase.

DEC (Decay) sets the length of the decay phase of the oscillators.

LEV (Level) sets the overall sound volume of the machine.

CY RIDE



TUN (Tune) sets the pitch of the interacting oscillators that make up the ride cymbal model.

TYP (Cymbal Type) selects different sets of fundamental oscillator frequencies, as well as different inter-oscillator logical interaction.

HIT (Hit Decay) sets the top decay.

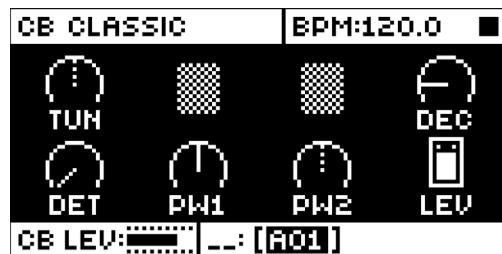
DEC (Tail Decay) sets the tail decay.

C1, C2, C3 (Component 1, 2, 3) sets the level of each component.

LEV (Level) sets the overall sound volume of the machine.

D.12 COWBELL

CB CLASSIC



TUN (Tune) sets the base pitch of the two oscillators.

DEC (Decay) sets the length of the decay phase of the cowbell sound.

DET (Detune) sets the detune offset of the second oscillator.

PW1 (Pulse Width Oscillator 1) sets the pulse width of the first oscillator.

PW2 (Pulse Width Oscillator 2) sets the pulse width of the second oscillator.

LEV (Level) sets the overall sound volume of the machine.

CB METALLIC



TUN (Tune) sets the base pitch of the two oscillators.

DEC (Decay) sets the length of the decay phase of the metallic cowbell sound.

DET (Detune) sets the detune offset of the second oscillator.

PW1 (Pulse Width Oscillator 1) sets the pulse width of the first oscillator.

PW2 (Pulse Width Oscillator 2) sets the pulse width of the second oscillator.

LEV (Level) sets the overall sound volume of the machine.

APPENDIX E: PAD SCALES

The following are the selectable scales for the pads CHROMATIC mode. For more information, please see: “11.5 TRACK MENU” on page 42, and “7.1.3 CHROMATIC MODE” on page 19

- CHROMATIC
- IONIAN (MAJOR)
- DORIAN
- PHRYGIAN
- LYDIAN
- MIXOLYDIAN
- AEOLIAN (MINOR)
- LOCRIAN
- PENTATONIC MINOR
- PENTATONIC MAJOR
- MELODIC MINOR
- HARMONIC MINOR
- WHOLE TONE
- BLUES
- COMBO MINOR
- PERSIAN
- IWATO
- IN-SEN
- HIRAJOSHI
- PELOG
- PHRYGIAN DOMINANT
- WHOLE-HALF DIMINISHED
- HALF-WHOLE DIMINISHED
- SPANISH
- MAJOR LOCRIAN
- SUPER LOCRIAN
- DORIAN *b2*
- LYDIAN AUGMENTED
- LYDIAN DOMINANT
- DOUBLE HARMONIC MAJOR
- LYDIAN #2 #6
- ULTRAPHRYGIAN
- HUNGARIAN MINOR
- ORIENTAL
- IONIAN #2 #5
- LOCRIAN *bb3 bb7*

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