# HORA MUSIC

### USER MANUAL

## SEQUENCERS ANALOG DRUMS PCM DRUMS

MIXERS



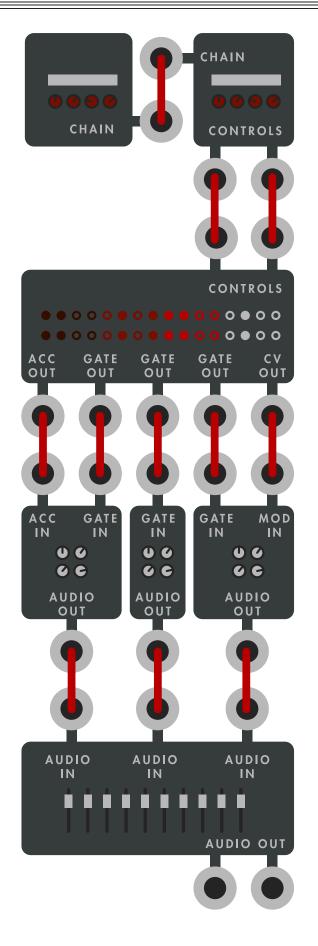
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## MAIN CONCEPT



All the modules in this manual are made to work together for a complete rhythm section management on different scales:

#### DRUM ARRANGER

complete song structures

#### **DRUM SEQUENCER**

beat making

#### **DRUM MODULES**

analog drum collection PCM drums collection

#### MIXER sound mixing

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### USER MANUAL

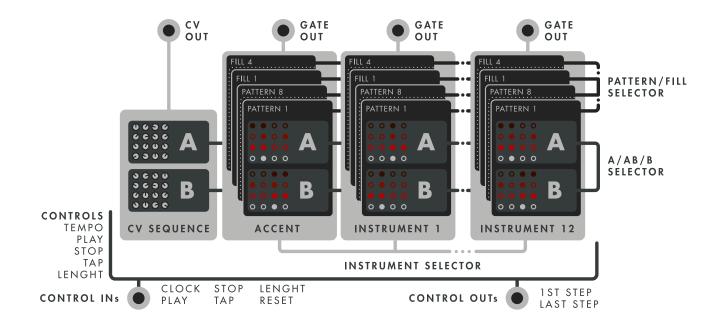
## S E Q U E N C E R S

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This plugin is designed to sequence the analog drums modules but can be used to trig any other drum module, envelopes, sampler module,...

The design of the drum sequencer is inspired by the TR808 and modular drum sequencers. It offers 12 patterns over 12 different tracks



#### The sequencer's tempo can be controlled in different ways:

- Using the TEMPO knob
- Using an external clock

#### The drum sequencer has different parallel tracks

- 1 CV track
- 11 "instruments" gate track
- 1 "accent" gate track that can be used like any instrument gate track.

#### Each instrument has 12 patterns that can be used differently:

- Rhythm (8) that can be loaded at the end of the previous pattern playing
- Fills (4) that can be loaded anytime during the pattern.

### Each preset can play up to 32 steps by using 2-step sequences of 16 steps: A and B

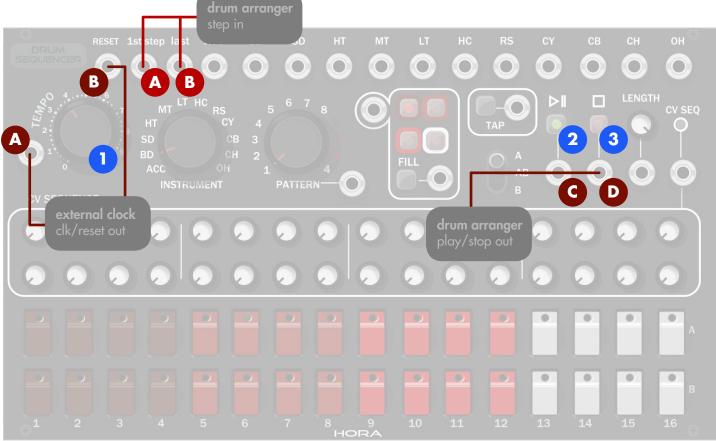
- Playing A or B (2x16 steps)
- Playing A followed by B (1x 32 steps)

#### Each sequences can be recorded in 2 different ways

- Using the 32 buttons
- performing live using the TAP button or input

## DRUM SEQUENCER FEATURES

#### CONTROLS



#### INPUTS

#### External clock

С

gate input to be used as tempo

**Reset** Instantly play the first step of the sequence.

#### Play/pause

gate input to launch and stop the sequence without starting it back from the beginning.

#### D Stop

gate input to stop the sequence and starting it back from the beginning.

#### OUTPUTS



B

#### 1 st step



#### Last step

send a gate signal when playing the last step of the sequence.

#### CONTROLS



#### Tempo

Set the tempo by turning the knob.



3

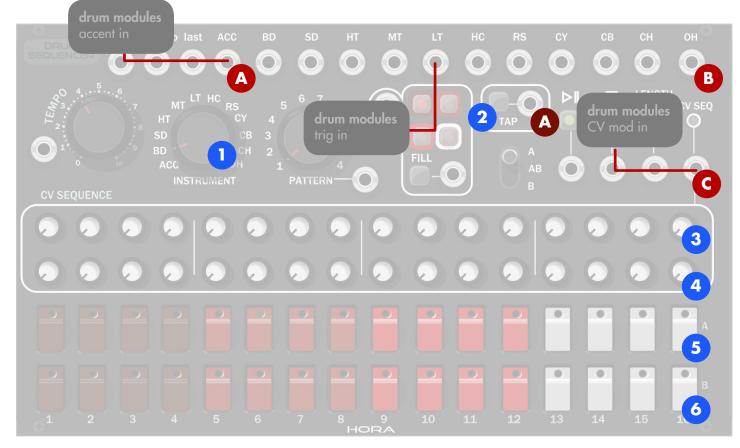
#### Play / pause

launch and stop the sequence without starting it back from the beginning.

#### Stop

stop the sequence and starting it back from the beginning.

#### INSTRUMENTS AND SEQUENCES



#### INPUT

Tap input

external gate input to record a sequence in real time

#### **OUTPUTS**



Accent

sends a gate signal when the sequencer play a programmed accent.



#### Instruments

send a gate signal when the sequencer play the corresponding programmed instrument.



CV Seq

CV output of the CV sequence.

#### CONTROLS

Instrument Select the instrument that you want to access.



tap to perform and record a sequence in real time.

#### CV Sequence line 1

Sets the A section of the CV sequence



3

1

CV sequence line 2 Sets the B section for the CV sequence

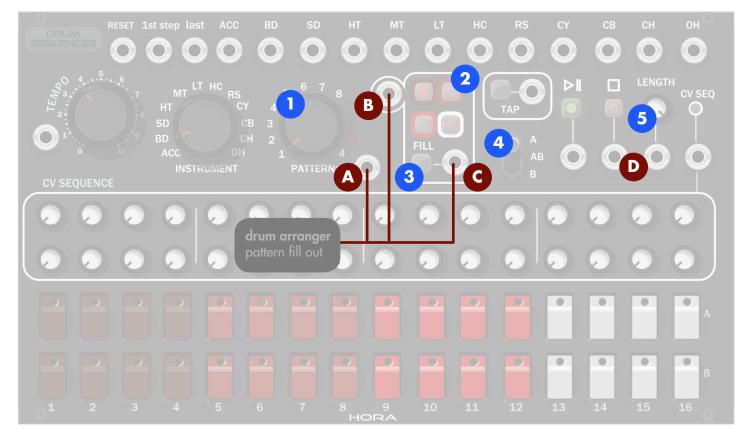


Gate sequence line 1 Sets the A section for the selected instrument

6

Gate sequence line 2 Sets the B section for the selected instrument

#### PATTERN CONTROL



#### INPUTS

#### Pattern

CV input to select the pattern that you want to program.

#### B

CV input to choose wich fill will be triggered.

Fill selection

Fill triggering

#### G

gate input to trigger a fill instantly.

#### Length

CV input set the length of the sequence.

#### CONTROLS



#### Pattern

Select that you want to program. The new rythm will be loaded after the previous one is done playing.



#### Fill selection

Use the four coloured button to choose which fill will be triggered.

#### **3** Fill triggering

Use the fill button instantly load a fill. No need to wait for the end of the current sequence like with rhythms.

#### A/B mode



Select the playing mode (read

A, read B or read both A & B)

#### 5 Length

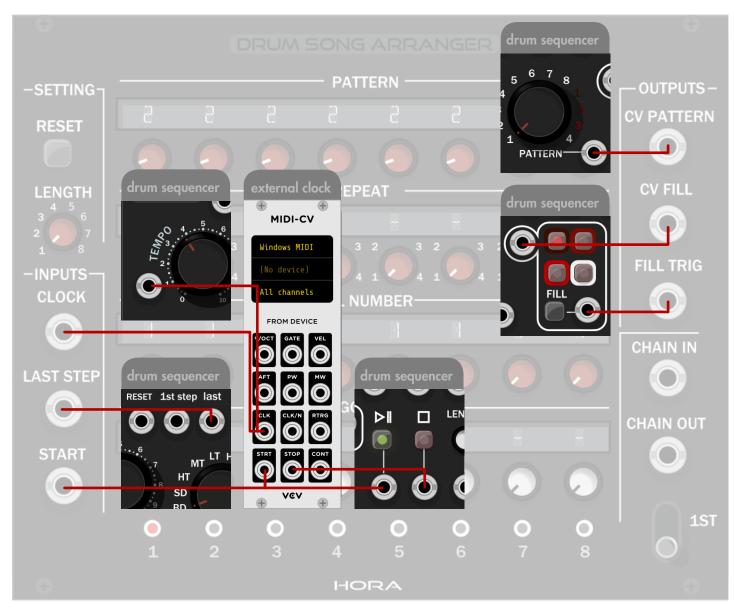
Set the length of the sequence with knob from 1 to 16 steps.



The drum song arranger allows to sequence the recall of patterns in the Hora Drum sequencer to create a song structure with 8 different sections (pattern load) that chains up like a sequence.

Each section ca be repeated up to 4 times and trigger a specific fill at a specific step of the drum pattern.

#### **CONNECTIONS TO OTHER DEVICES**

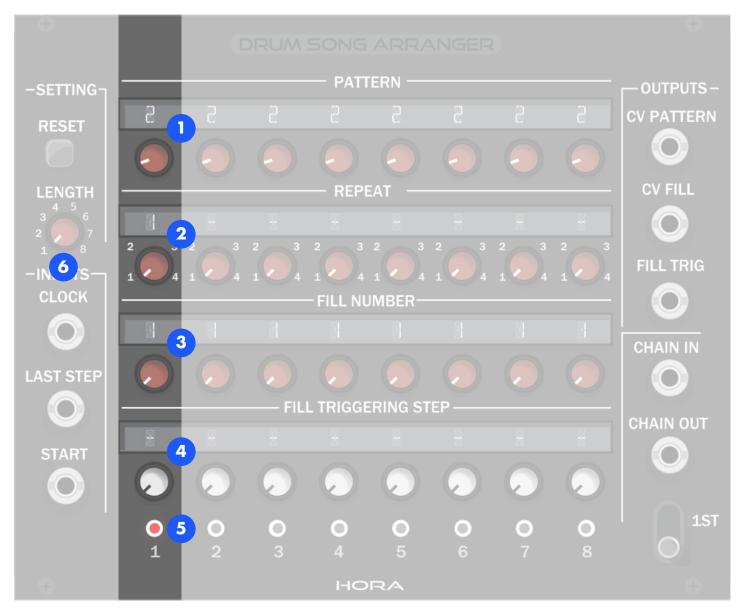


The drum song arranger is made to control the pattern selection, fill selection and fill triggering of the Drum Sequencer. Therefore, these outputs have to be correctly connected.

In order to be synchronised with the drum sequencer, we need to receive the last step ouput of this and the external clock it is synchronised on.

To create longer structure it is possible to chain as many drum song arrangers as needed.

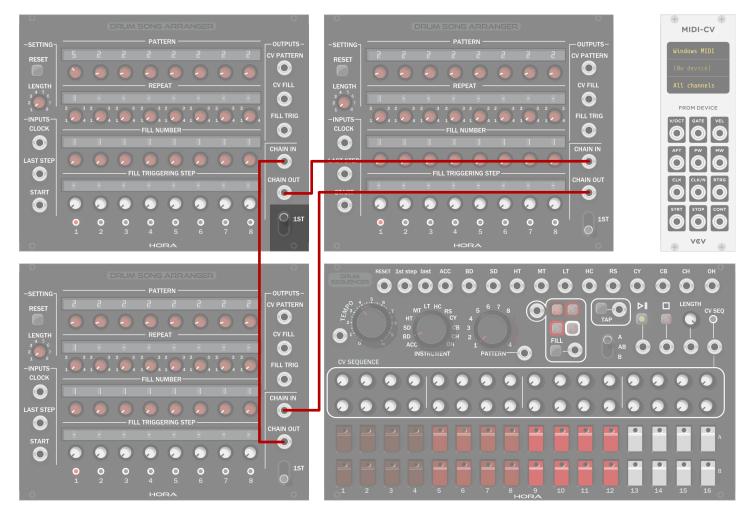
#### **PROGRAMMING A SECTION**



When a pattern arrives at its end, the drum sequencer sends a signal through the "last step" connexion. The drum song arranger then repeats the section if specified. If not, it will switch to the next section.



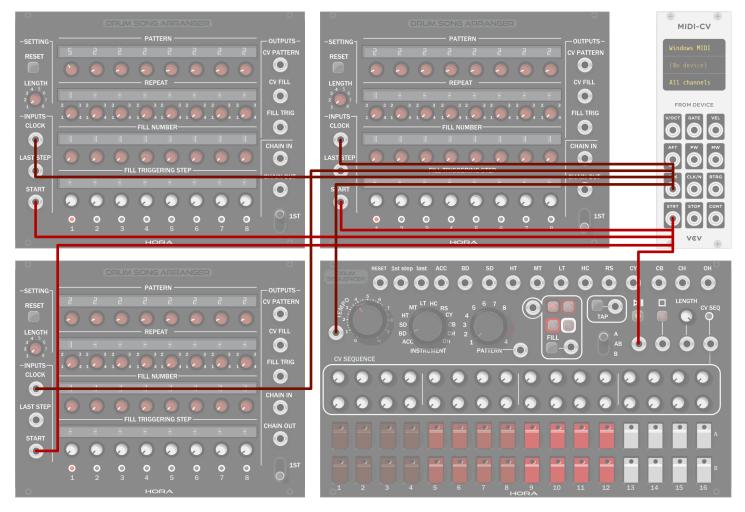
#### **CHAINING ARRANGERS**



#### **STEP 1. TOGETHER**

- Set the "1ST" switch on the arranger that you want to define as the first one.
- Patch the chain out output to the chain in input of the next arranger
- Close the loop by patching the last chain out output to the chain in input of the first arranger.

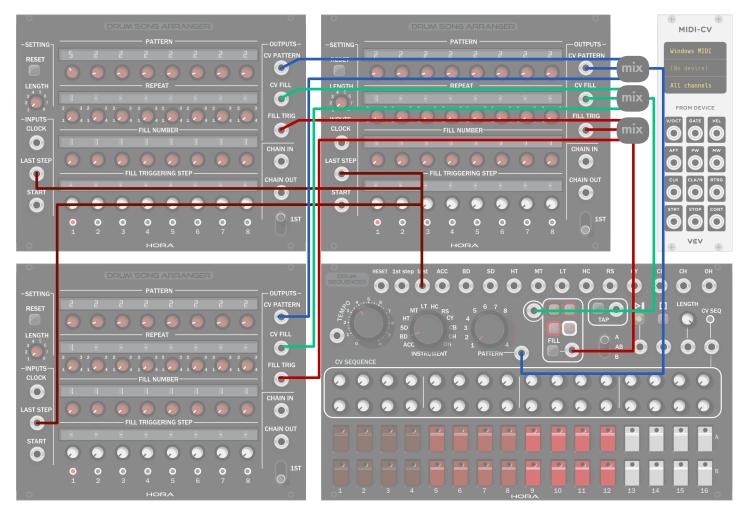
#### **CHAINING ARRANGERS**



#### **STEP 2. TO EXTERNAL CLOCK**

clock and start input of both arrangers and drum sequencer need to be patched to the same source

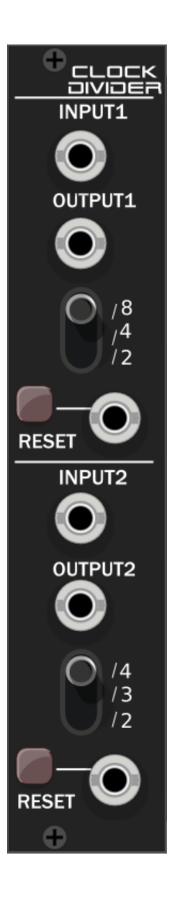
#### **CHAINING ARRANGERS**



#### **STEP 3. TO THE DRUM SEQUENCER**

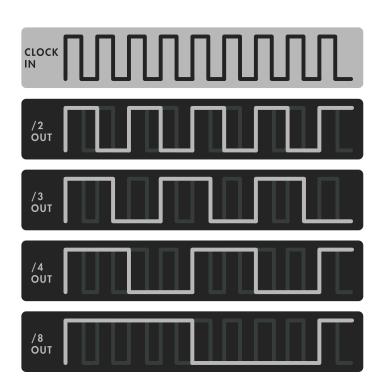
The outputs of each arranger will have to be mixed together to arrive to the drum sequencer. Use the module of your choice to reach this result (unity mix, CV mixer, ...). The signals will have to be added together at 100% of their values.

## CLOCK DIVIDER



The Hora Clock divider is a utility module with two gate dividers. The division can be set in different ways using the 3 position switch. The count can be reset by the push button or the gate input.

The clock dividers can be used to create sequences or to send a slower clock to a sequencer, while keeping a musical rhythmic division.



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### USER MANUAL

## ANALOG DRUMS

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#### VCV DSP EDITION



#### **VULT DSP EDITION**



The Hora ANALOG DRUMS collection is a set of analog modelled percussion voices. While the modules are inspired by the famous 808 vintage drum machine, they also offer an in-depth control of the sound, some additional features, and CV control over many parameters.

Creating a drum voice from the scratch takes many modules and complex synthesis processes. This collection offers an easy to create a complete analog

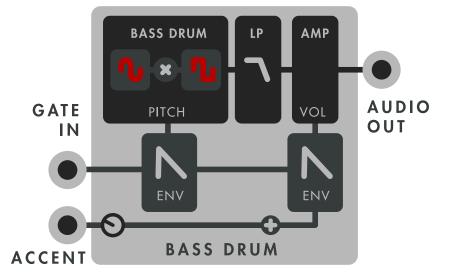
#### drum kit.

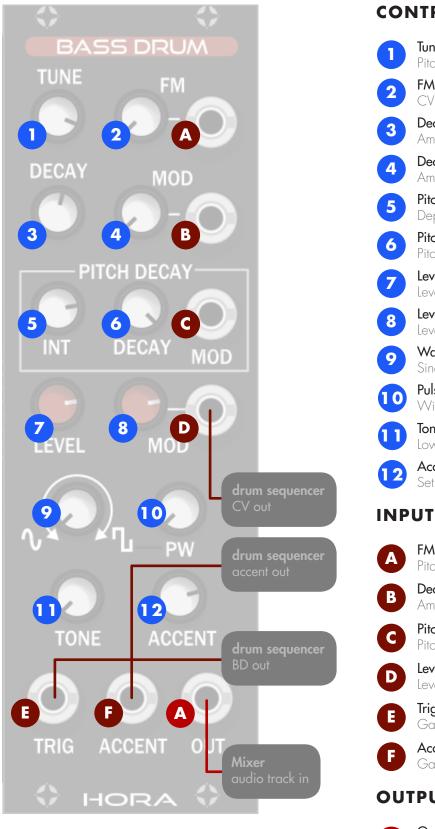
These modules are based on knowledge concerning real hardware analog drums.

Special attention was given about details that make it sound authentic and give a dynamic sound without annoying/unmusical sound's ticks and clicks. Each module exists in two versions: the red edition built with VCV dsp filter, and the dark edition built with Vult dsp filter. Each version has its own tonal character. The included modules are:

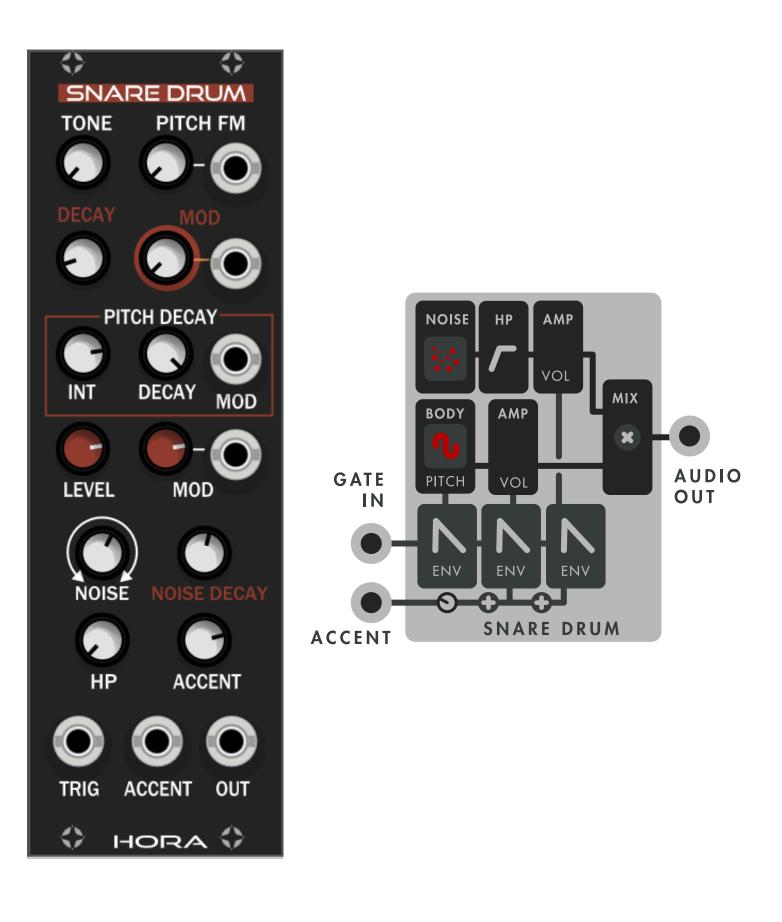
- Bass drum
- Snare drum
- Toms and conga
- Hand clap and maracas
- Rimshot-clave-softbell
- Cymbal and cowbell
- Hi hat (closed and opened)



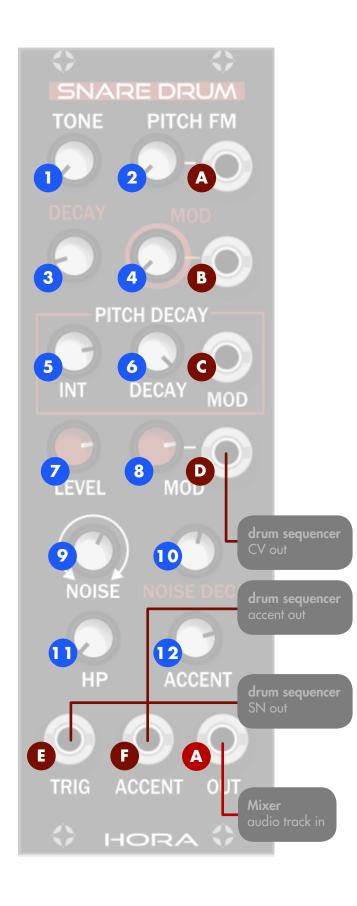








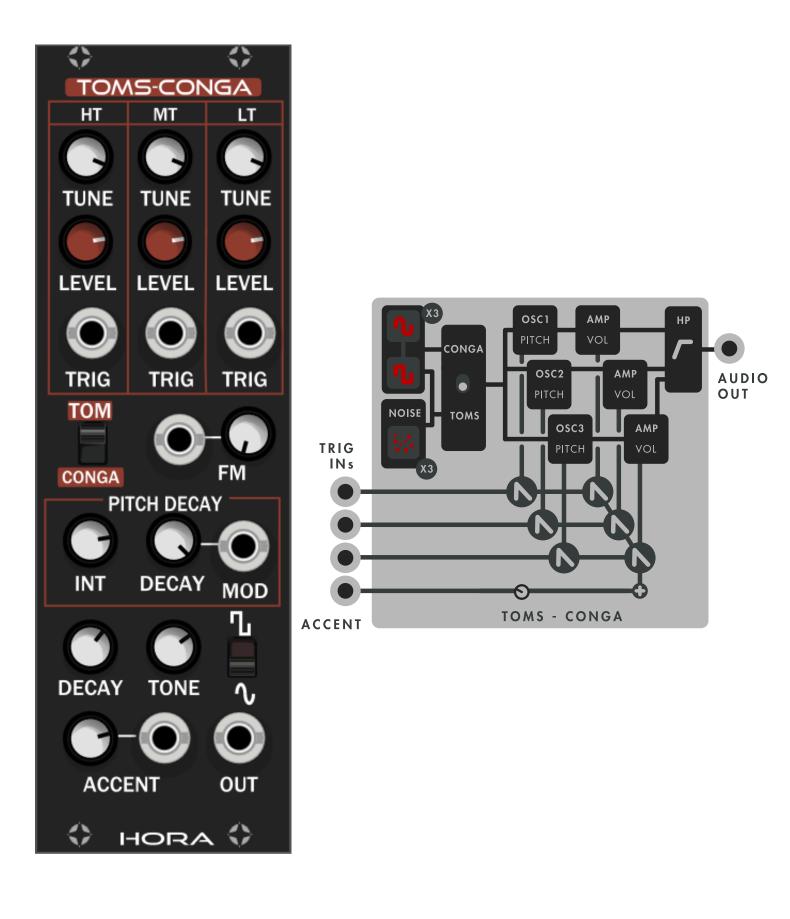
## SNARE DRUM FEATURES

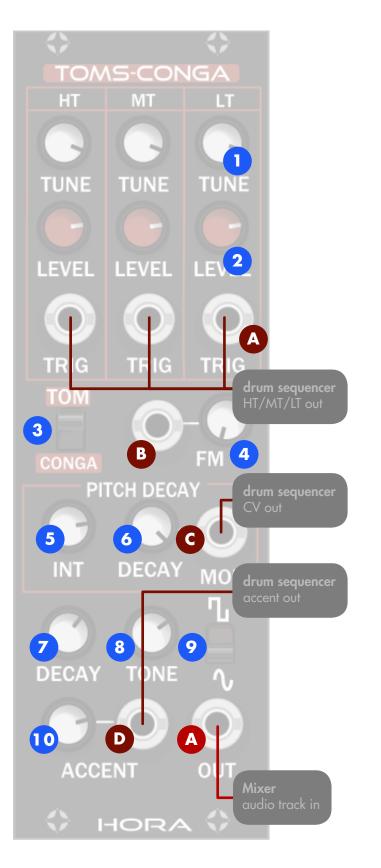


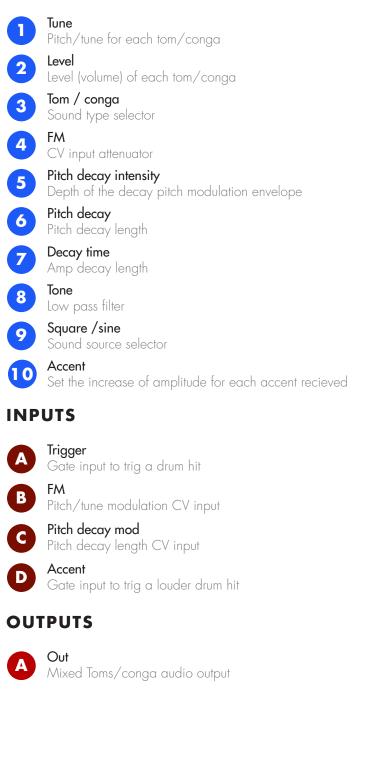
#### CONTROLS

	<b>Tone</b> Pitch/tune of the snare drum
2	<b>FM</b> CV input attenuator
3	<b>Decay time</b> Amp decay length of the body. No effect on noise
4	Decay mod Amp decay modulation attenuator
5	<b>Pitch decay intensity</b> Depth of the decay pitch modulation envelope
6	<b>Pitch decay</b> Pitch decay length
	Leve
7	Level (volume) of the snare drum
8	Level mod Level modulation attenuator
9	Noise Body/noise mix
10	Noise decay Width of the pulse wave
	<b>HP</b> High pass filter
	Accent
12	Set the increase of amplitude for each accent received.
NP	UTS
A	FM Ditab (ture modulation C) ( input
	Pitch/tune modulation CV input
B	<b>Decay mod</b> Amp decay modulation CV input
C	<b>Pitch decay mod</b> Pitch decay length CV input
D	Level mod Level modulation CV input
	<b>Trigger</b> Gate input to trig a drum hit
Ð	Accent Gate input to trig a louder drum hit
DUI	PUTS
A	Out

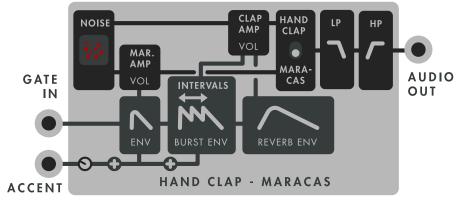
Snare sound audio output



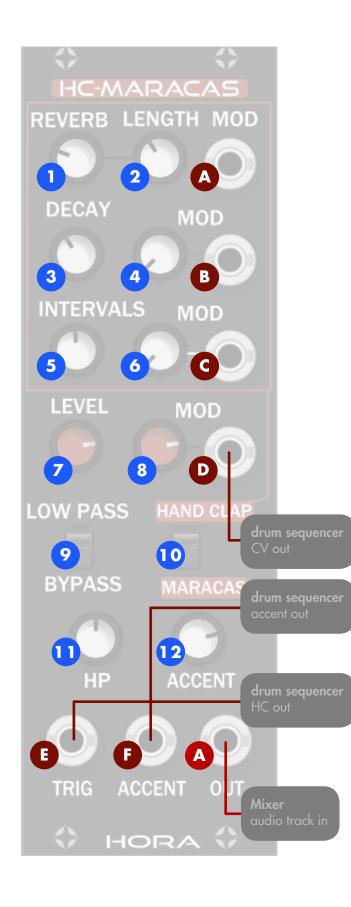








HAND CLAP-MARACAS FEATURES



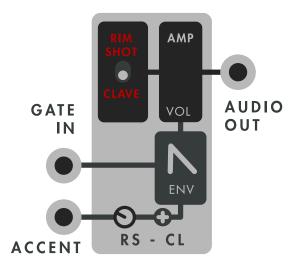
#### CONTROLS

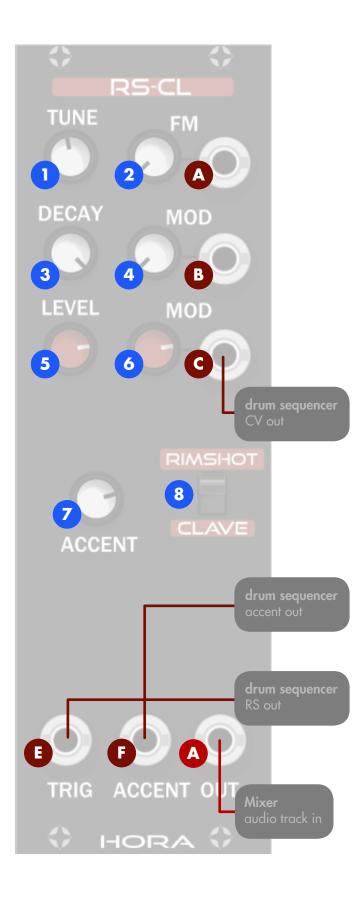
	<b>Reverb</b> Level of the reverb
2	<b>Reverb Length</b> Length of the reverb rail
3	<b>Decay time</b> Amp decay length of the clap
4	<b>Decay mod</b> Amp decay modulation attenuator
5	Intervals Time between the 3 claps of the hands clap sound
6	Intervals mod Interval modulation attenuator
7	<b>Level</b> Level (volume) of the hand clap/maracas
8	Level modulation attenuator
9	LP/BP Low pass active switch
10	Hand clap/ maracas Sound type selector
	<b>HP</b> High pass filter
12	Accent Set the increase of amplitude for each accent received.
NP	UTS
A	<b>Reverb mod</b> Reverb length modulation CV input
B	<b>Decay mod</b> Amp decay modulation CV input
C	Intervals mod Interval time modulation CV input
D	Level mod Level modulation CV input
	<b>Trigger</b> Gate input to trig a drum hit
Ð	Accent Gate input to trig a louder drum hit
วบา	PUTS
A	Out

Hand clap/maracas sound audio output

## RIMSHOT/CLAVE STRUCTURE

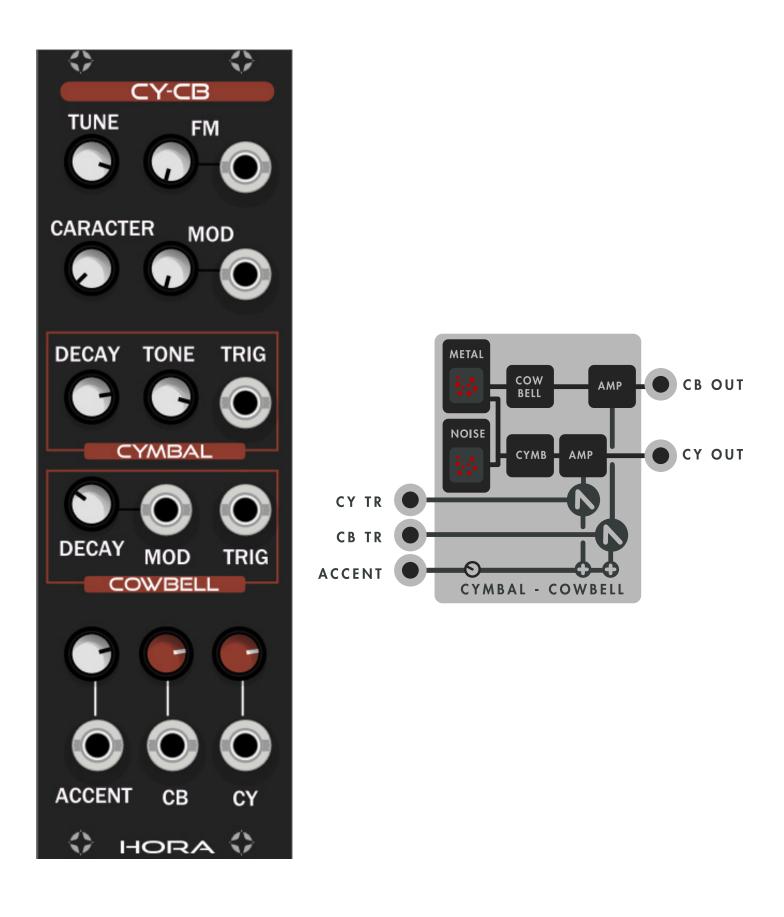


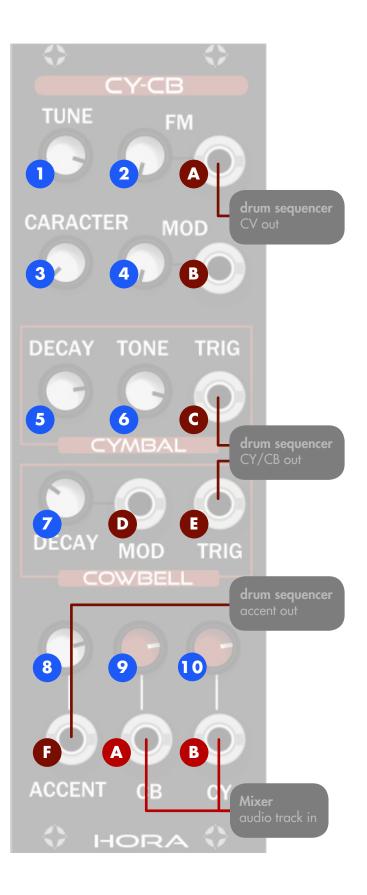




1	<b>Tune</b> Pitch/tune of the rs/clave
2	<b>FM</b> CV input attenuator
3	<b>Decay time</b> Amp decay length of the rs/clave
4	Decay mod Amp decay modulation attenuator
5	Level (volume) of the rs/clave
6	Level mod Level modulation attenuator
7	Accent Set the increase of amplitude for each accent received.
8	<b>Rimshot/clave</b> Sound type selector In the Vult DSP edition, a softbell is proposed instead of a rimshot
INP	UTS
A	<b>FM</b> Pitch/tune modulation CV input
B	Decay mod Amp decay modulation CV input
C	Level mod Level modulation CV input
E	<b>Trigger</b> Gate input to trig a drum hit
Ð	Accent Gate input to trig a louder drum hit
OUI	ſPUTS
<b>(A</b> )	<b>Out</b> Rimshot/softbell/clave sound audio output

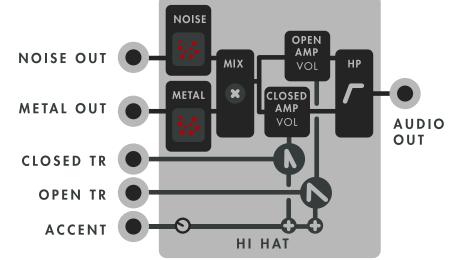
## CYMBAL/COWBELL STRUCTURE

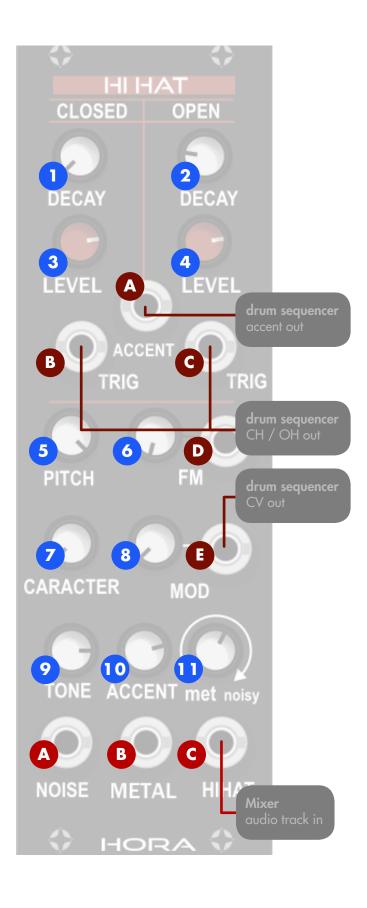




1	<b>Tune</b> Pitch/tune of the cymbal and cowbell
2	FM
	CV input attenuator
3	Character modifying the metallic noise harmonic content
4	Character mod Character modulation attenuator
5	<b>Cymbal decay</b> Amp decay length of the cymbal
6	<b>Tone</b> High pass filter
7	Cowbell decay Amp decay length of the cowbell
8	Accent Set the increase of amplitude for each accent received.
9	<b>Level CB</b> Level (volume) of the Cowbell
10	<b>Level CY</b> Level (volume) of the Cymbal
INP	PUTS
A	<b>FM</b> Pitch/tune modulation CV input
B	Character mod character modulation CV input
	Cymbal trigger
C	Gate input to trig a drum hit
D	Cowbell decay mod Amp decay modulation CV input
E	<b>Cowbell trigger</b> Gate input to trig a drum hit
F	Accent Gate input to trig a louder drum hit
OU	TPUTS
A	<b>CB</b> Cowbell sound audio output
B	Cymbal sound audio output







1	<b>Closed decay</b> Amp decay length of the closed hi hat
2	<b>Open decay</b> Amp decay length of the open hi hat
3	Closed level
4	Level (volume) of the closed hi hat <b>Open Level</b>
	Level (volume) of the open hi hat Tune
5	Pitch/tune of the hi hat
6	<b>FM</b> CV input attenuator
7	Character modifying the metallic noise harmonic content
8	Character mod Character modulation attenuator
9	Tone
	High pass filter Accent
10	Set the increase of amplitude for each accent received.
D	Metal - noise white and metallic noise mix
INP	UTS
A	Accent Gate input to trig a louder drum hit
	Closed trigger
B	Gate input to trig a drum hit
C	<b>Open trigger</b> Gate input to trig a drum hit
D	<b>FM</b> Pitch/tune modulation CV input
B	Character mod character modulation CV input
A	Noise out constant white noise audio output
B	Metal out constant metallic noise audio output
	Hi hat out
U	Hi hat sound audio output

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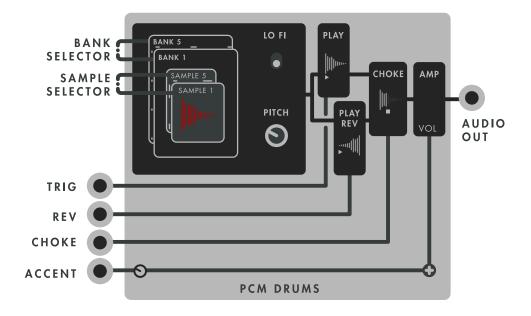
### USER MANUAL

## PCM DRUMS

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## PCM DRUMS CONCEPT





Hora PCM Drums is a collection of modules that emulate the sounds and features of the classic sample based drum machines of the 80's.

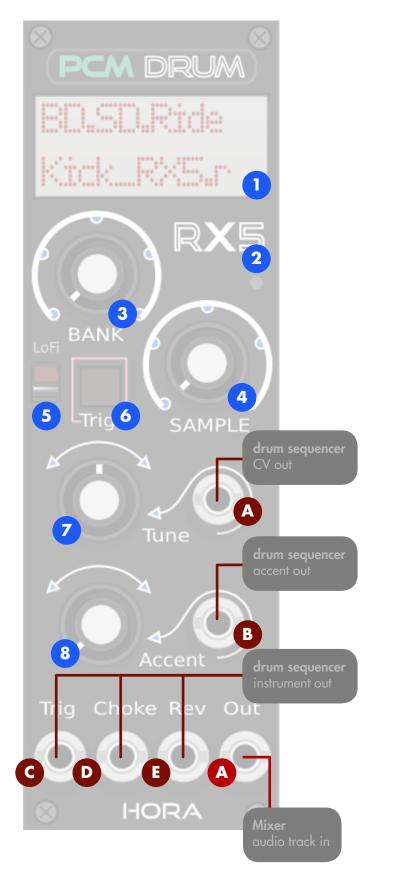
In addition to the expected controls (tune and accent), they also propose some advanced features such as reverse playing, CV control of the drum's tune and the choke on other instrument than hi hat. The samples are carefully selected 8 bit PCM files that can be read with or without interpolation (LoFi mode). the bundle contains 9 modules with 5 banks of 5 samples for each so 225 samples that covering the sound of:

- Linndrum
- Oberheim DMX
- Roland TR707
- Roland TR626
- Yamaha RX5
- Hammond Sakata
- Emu drumulator
- Korg DDD1

It also features samples from other machines to complete the set of 25 samples per modules:

- Roland TR909,
- Yamaha Rx21,
- MXR-185,
- Sequential TOM
- Korg PSS 50

## PCM DRUMS FEATURES





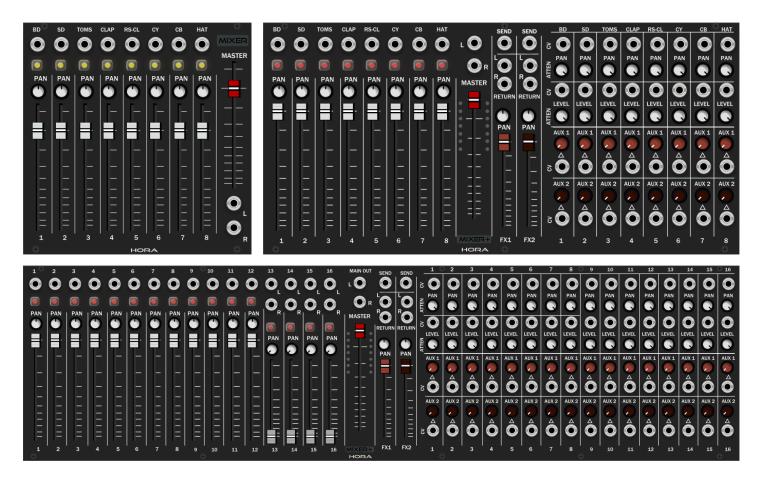
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### USER MANUAL

## **MIXERS**

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The mixer plugin includes 3 audio consoles:

#### MIXER

- 8 mono voices
- pan
- active-mute button for each track,
- stereo out

#### MIXER + 1

- All features of MIXER
- 2 fx loops,
- CV inputs for levels, pan and the FX sends.

#### MIXER + 2

- All features of MIXER + 1
- 12 mono voices
- 4 stereo voices

## MIXER

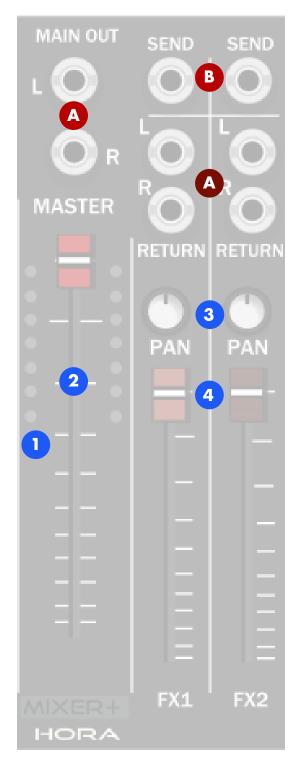
#### TRACK CONTROL





1	Active turn off to mute the track
2	<b>Pan</b> set the stereo position in the mix
3	<b>Volume fader</b> set the volume of the track in the mix
4	<b>Pan attenuator</b> stereo CV control attenuator
5	Level attenuator volume CV control attenuator
6	Aux 1 send level of the track to aux1
7	Aux 2 send level of the track to aux2
INP	UTS
INP (A)	UTS Mono in mono track audio input
	Mono in
A	Mono in mono track audio input Stereo in
A B	Mono in mono track audio input Stereo in stereo left and right audio inputs Pan CV
A B C	Mono in mono track audio input Stereo in stereo left and right audio inputs Pan CV stereo CV input Level CV

#### MASTER AND AUX CONTROL



#### CONTROLS



Meters meters for the output stereo mix

Aux pan set the stereo position of each return track

Aux pan set the stereo position of each return track

#### INPUTS



Return stereo input for each return track

#### **OUTPUTS**



Master Stereo mix output



Aux mix 1 and 2 output