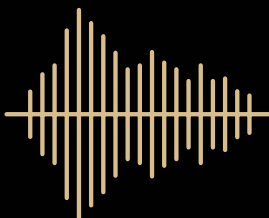


INSTRUÖ | SPECIALIST SYNTHESIZERS



arbhar (Firmware 2.0)
Sample Pack Management

Contents

3

Introduction

4

Scene and Sample Directories

8

USB File Structure

12

preset.txt Files

13

arbharClassic.txt

14

MidSide.txt

16

Intervals.txt

19

Stereo.txt

20

Clone / Load / Save

21

Clone Layers

22

Load Layers

24

Load Scenes

26

Saving Scenes

Introduction —

The arbhar V2 firmware is now capable of storing and importing samples via the rear **USB Port** or the **USB Expander**. The arbhar **V2 Sample Pack Expansion** comes with a 4GB USB drive pre-loaded with 216 original, royalty-free samples, designed to highlight the new features with a range of sonic material.

All samples are recorded at 48khz, 24-bit sample rates. arbhar V2 firmware is optimised for this format but will accept and convert other sample rates.

Note: It may take longer to load files in other sample rates due to a sample rate conversion process.

Individual samples can be loaded into a chosen **Layer** from the **_arbhar_library** directory.

Alternatively, collections of up to 6 samples can be loaded as a **Scene** from the **_arbhar_scenes** directory. **Scenes** also include a **preset.txt** configuration file which can be edited to fine-tune some parameters which are not accessible from the arbhar's interface directly.

A directory of the sample names and their folder locations can be found below:

Scene Directory

Scene	Samples	Preset	Description	Performer
1_1_ 1_2_ 1_3_	Prepared Electric Guitar	arbharClassic.txt	Electric Guitar played with various metal beaters and pedals, both the amplifier and the guitar body were mic'd up.	Mike Parr-Burman
1_4_ 1_5_ 1_6_	Prepared Rhodes		Fender Rhodes MKI, bowed, plucked and amplified through a Fender Twin amplifier.	Jimi Maffei
2_1_	Percussion - Cymbals		Scrapes, crashes and cymbal stacks.	
2_2_	Percussion - XY Cymbal Washes		Mallet washes with a pair of mics arranged in XY over the lip of the cymbal.	
2_3_ 2_4_ 2_5_	Percussion - Snare LRØ Percussion - Binaural 360° Toms Percussion - Binaural 360° Toms (Quantised)	MidSide.txt	Identical snare pattern, played on the same snare with the same microphone distances, in different rooms. The centre channel is the close mic, the sides are derived from the room mic. Assortment of toms arranged in a circle around a homemade binaural microphone.	Aimo Scampa
2_6_	Percussion - Modular Drums	arbharClassic.txt	Various modular drum patches.	
3_1_ 3_2_ 3_3_ 3_4_ 3_5_ 3_6_	Modal Modular - Mode I Modal Modular - Mode III Modal Modular - Mode IV Modal Modular - Mode V Modal Modular - Mode VI Modal Modular - Mode VII	Intervals.txt	Various modular patches utilising numerous pitch quantisers to generate random chords and voicings within the given mode. Each Layer is derived from 6 samples from the same patch, the 6 patches are curated to give a wide timbral palette. Note: Mode II has been omitted due to its relative similarity to Mode III	Noé Heuclin / Jimi Maffei Adam McCaffrey
4_1_ 4_2_ 4_3_ 4_4_ 4_5_ 4_6_	Guitars LRØ Keys LRØ Drum Machines and Synths LRØ Male Choir LRØ Female Choir LRØ Mixed Choir LRØ	MidSide.txt	A collection 2-chord cadences with electric and acoustic guitar combinations. Each layer uses a distorted guitar as the centre channel and complimentary acoustic arpeggios in the sides. A collection of 2-chord cadences with Rhodes and reed organ combinations. Each layer uses a distorted Rhodes as the centre channel and complimentary organ pads in the sides. Glitchy, percussive modular drum patches as the centre channel with Roland JX-08 atmospheres in the sides. Layers 1-5 use choral-style vocal chords based on the same chord throughout. The centre channel is a perfect 5th, and the added intervals in the sides. These notes are built-up throughout the duration of the buffer, allowing you to dial in the density of the chord. Layers 6 are based on the same chord and M/S format, but fade different chord voicing in and out throughout the buffer, offering different voicing and an element of randomness compared to the previous layers.	Jimi Maffei Sophie Barcan Jimi Maffei Tash Hines Jimi Maffei / Tash Hines
5_1_ 5_2_ 5_3_ 5_4_ 5_5_ 5_6_	Piano+ - Phrases Piano+ - Resonances Piano+ - Percussive Found Sounds - Water/ Breath Found Sounds - Organic Materials Found Sounds - Ambiences	arbharClassic.txt Stereo.txt	A collection of prepared piano samples, taken from the original PIANO+ project from which the arbhar+ code was originally developed. Real-world sounds, taken from various scenarios and situations.	Sebastian Lexer Kian McEvoy Kian McEvoy / Jimi Maffei
6_1_ 6_2_ 6_3_ 6_4_ 6_5_ 6_6_	Electronics Arcade	arbharClassic.txt Stereo.txt	A collection of glitches, bass drops, crackles, bleeps, bloops and much more. Samples taken from many classic arcade games, some more recognisable than others.	Ben Jones / Jason Lim Jason Lim Jimi Maffei

Location	_arbhar_library	_arbhar_library_2
1_1_	1_BellDeath.wav	1_Hats.wav
1_2_	2_Buzzfade.wav	2_Scrape1.wav
1_3_	3_ClangerBattleground.wav	3_Scrape2.wav
1_4_	4_ClangerBossDeath.wav	4_ScrapeAndPlunge.wav
1_5_	5_FallFromTree.wav	5_ScrapeAndTinkle.wav
1_6_	6_Friction.wav	6_Stack.wav
2_1_	1_PluckyDialup.wav	1_WashXY1.wav
2_2_	2_PrisonBreak.wav	2_WashXY2.wav
2_3_	3_RoboZither.wav	3_WashXY3.wav
2_4_	4_RopeTension.wav	4_WashXY4.wav
2_5_	5_UnderwaterPicnic.wav	5_WashXY5.wav
2_6_	6_HangdrumSad.wav	6_WashXY6.wav
3_1_	1_ClangerArmy.wav	1_SNR_LRØ_DryDry.wav
3_2_	2_GiantsSteps.wav	2_SNR_LRØ_Dry.wav
3_3_	3_GlassBandsaw.wav	3_SNR_LR_MedDryØ.wav
3_4_	4_ScratchBump.wav	4_SNR_LRØ_MedWet.wav
3_5_	5_ScratchBumpPluck.wav	5_SNR_LRØ_Wet.wav
3_6_	6_UnderwaterWine.wav	6_SNR_LRØ_WetWet.wav
4_1_	1_Hello.wav	1_Roundabout.wav
4_2_	2_Halt.wav	2_FallingUp.wav
4_3_	3_Question.wav	3_Rushes.wav
4_4_	4_MagicWell.wav	4_SnakeInTheGrass.wav
4_5_	5_SebulbasRegret.wav	5_LoFoundation.wav
4_6_	6_SebulbasPlea.wav	6_ToySoldiers.wav
5_1_	1_ChangeOfHeart.wav	1_BinauralBeat_90a.wav
5_2_	2_Crypt.wav	2_BinauralBeat_90b.wav
5_3_	3_GrantedWish.wav	3_BinauralBeat_100.wav
5_4_	4_Mineshaft.wav	4_BinauralBeat_110a.wav
5_5_	5_SadSwing.wav	5_BinauralBeat_110b.wav
5_6_	6_Rust.wav	6_BinauralBeat_140.wav
6_1_	1_Honker.wav	1_HIMO.wav
6_2_	2_SloMoCrash.wav	2_HIMO.wav
6_3_	3_Stalker.wav	3_HIMO.wav
6_4_	4_UFOLanding.wav	4_HIMO.wav
6_5_	5_UFOStun.wav	5_HIMO.wav
6_6_	6_UFOProbe.wav	6_HIMO.wav

Location	_arbhar_library_3	_arbhar_library_4
1_1_	1_Mode_I_i.wav	1_Gtr_LRØ_G-C7.wav
1_2_	2_Mode_I_ii.wav	2_Gtr_LRØ_Em-F.wav
1_3_	3_Mode_I_iii.wav	3_Gtr_LRØ_Fm7-Am9.wav
1_4_	4_Mode_I_iv.wav	4_Gtr_LRØ_C#m9-B7.wav
1_5_	5_Mode_I_v.wav	5_Gtr_LRØ_D9-G7.wav
1_6_	6_Mode_I_vi.wav	6_Gtr_LRØ_Dm7-C7.wav
2_1_	1_Mode_III_i.wav	1_Keys_LRØ_Ab-Fm.wav
2_2_	2_Mode_III_ii.wav	2_Keys_LRØ_Cm-Eb.wav
2_3_	3_Mode_III_iii.wav	3_Keys_LRØ_Db-Bb.wav
2_4_	4_Mode_III_iv.wav	4_Keys_LRØ_Dm-F.wav
2_5_	5_Mode_III_v.wav	5_Keys_LRØ_Eb-Cm.wav
2_6_	6_Mode_III_vi.wav	6_Keys_LRØ_Gm-Bb.wav
3_1_	1_Mode_IV_i.wav	1_JXDrums_LRØ_1.wav
3_2_	2_Mode_IV_ii.wav	2_JXDrums_LRØ_2.wav
3_3_	3_Mode_IV_iii.wav	3_JXDrums_LRØ_3.wav
3_4_	4_Mode_IV_iv.wav	4_JXDrums_LRØ_4.wav
3_5_	5_Mode_IV_v.wav	5_JXDrums_LRØ_5.wav
3_6_	6_Mode_IV_vi.wav	6_JXDrums_LRØ_6.wav
4_1_	1_Mode_IV_i.wav	1_M_LRØ_MM.wav
4_2_	2_Mode_IV_ii.wav	2_M_LRØ_OO.wav
4_3_	3_Mode_IV_iii.wav	3_M_LRØ_AA.wav
4_4_	4_Mode_IV_iv.wav	4_M_LRØ_EE.wav
4_5_	5_Mode_IV_v.wav	5_M_LRØ_ALL.wav
4_6_	6_Mode_IV_vi.wav	6_M_LRØ_ALL_Faded.wav
5_1_	1_Mode_V_i.wav	1_F_LRØ_MM.wav
5_2_	2_Mode_V_ii.wav	2_F_LRØ_OO.wav
5_3_	3_Mode_V_iii.wav	3_F_LRØ_AA.wav
5_4_	4_Mode_V_iv.wav	4_F_LRØ_EE.wav
5_5_	5_Mode_V_v.wav	5_F_LRØ_ALL.wav
5_6_	6_Mode_V_vi.wav	6_F_LRØ_ALL_Faded.wav
6_1_	1_Mode_VII_i.wav	1_MF_LRØ_MM.wav
6_2_	2_Mode_VII_ii.wav	2_MF_LRØ_OO.wav
6_3_	3_Mode_VII_iii.wav	3_MF_LRØ_AA.wav
6_4_	4_Mode_VII_iv.wav	4_MF_LRØ_EE.wav
6_5_	5_Mode_VII_v.wav	5_MF_LRØ_ALL.wav
6_6_	6_Mode_VII_vi.wav	6_MF_LRØ_ALL_Faded.wav

Location	_arbhar_library_5	_arbhar_library_6
1_1_	1_RisingPhrase.wav	1_AlienTransmission1.wav
1_2_	2_FallingPhrase.wav	2_AlienTransmission2.wav
1_3_	3_Key&BowCadence.wav	3_AlienTransmission3.wav
1_4_	4_PhraseWithCrash.wav	4_CaveDweller.wav
1_5_	5_EstrangedLine.wav	5_Processing.wav
1_6_	6_FutureHarpichord.wav	6_Debrief.wav
2_1_	1_Tinnitus.wav	1_Diagnostics.wav
2_2_	2_Scrapes.wav	2_Powerup.wav
2_3_	3_BowedPianoLine.wav	3_TitleScreen.wav
2_4_	4_RingAndCup.wav	4_CritterSwarm.wav
2_5_	5_PanicBuild.wav	5_Plasma.wav
2_6_	6_BowedPianoDecresc.wav	6_PreBossWorkout.wav
3_1_	1_BellPluck.wav	1_MaracasInSpace.wav
3_2_	2_AmbientSlaps.wav	2_BinLidBlackHole.wav
3_3_	3_PercussiveBounces.wav	3_GalacticDidgeridoo.wav
3_4_	4_HarmonicBounces.wav	4_Interference.wav
3_5_	5_DungeonKeys.wav	5_DistantStorm.wav
3_6_	6_Resonances.wav	6_Implosion.wav
4_1_	1_Pond.wav	1_Arcade_A.wav
4_2_	2_Shore.wav	2_Arcade_A.wav
4_3_	3_River.wav	3_Arcade_A.wav
4_4_	4_Inhale.wav	4_Arcade_A.wav
4_5_	5_Exhale.wav	5_Arcade_A.wav
4_6_	6_WaterBreath.wav	6_Arcade_A.wav
5_1_	1_Leaves.wav	1_Arcade_B.wav
5_2_	2_Wood.wav	2_Arcade_B.wav
5_3_	3_Flotsam.wav	3_Arcade_B.wav
5_4_	4_Gravel.wav	4_Arcade_B.wav
5_5_	5_Pebbles.wav	5_Arcade_B.wav
5_6_	6_Rocks.wav	6_Arcade_B.wav
6_1_	1_MusemChains.wav	1_Arcade_C.wav
6_2_	2_FiddlerInTheRain.wav	2_Arcade_C.wav
6_3_	3_BalconyBreakfast.wav	3_Arcade_C.wav
6_4_	4_StormRoom.wav	4_Arcade_C.wav
6_5_	5_HarpWarmup.wav	5_Arcade_C.wav
6_6_	6_EnsembleWarmup.wav	6_Arcade_C.wav

USB File Structure

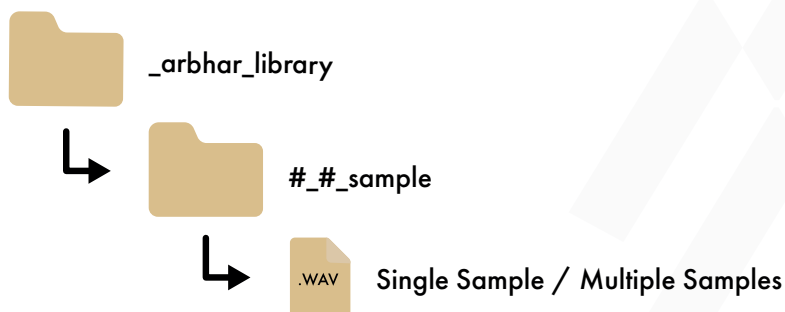
There are 8 folders loaded to the root directory of the USB flash drive. The samples are organised across 6 library folders. Samples can be moved, replaced, and swapped between folders but only **_arbhar_library** and **_arbhar_scenes** are accessible via the **Clone/Load/Save Menu**.



_arbhar_library

This folder contains 36 subfolders, each containing an individual sample. These can be loaded into any of arbhar's layers via the **Clone/Load/Save Menu**.

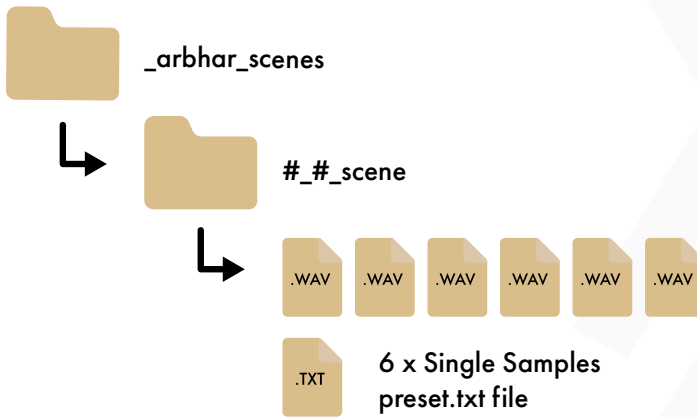
- A **#_#_sample** naming convention is used with the first number representing the bank and the second number represents the **Layer**.
- When loading is activated, the arbhar will load the first 13 seconds of the first audio file found in the selected folder. In the case of more than one shorter audio files being present, arbhar will continue to load these samples until the total length of the loaded audio has exceeded 10 seconds.



_arbhar_scenes

This folder contains 36 subfolders that are used for storing up to 6 samples and a **preset.txt** configuration file.

- a **#_#_scene** naming convention is used with the first number representing the bank and the second number represents the **Scene**.
- When loading a **Scene**, the arbhar will load the first 6 audio files present in the folder into its 6 **Layers**, alongside any configurations defined by the **preset.txt** file.



_updater —

This folder is used for updating the firmware with a .gz updater file.

arbhar firmware updater video: <https://youtu.be/wO4jlw4fYak>



_updater



arbhar_updater_x

preset.txt Files

The **Scenes** included with the **Sample Pack Expansion USB** contain custom **preset.txt** files that have been curated for specific use cases with the samples.

Note: By default, the **Load Configuration** option in the **preset.txt** files has been set to **Load Layers (2)**. This means only the audio samples will be loaded and any customisation of the **preset.txt** file will be ignored.

You must change the **Load Configuration** option to **Load Scene (3)** in order to engage the custom preset, otherwise the current configuration of your arbhar will be retained. This is achieved by typing the new numerical value and closing the **preset.txt** file.

```
37 -----
38 Load Configuration: Presets, Layers, and Scenes
39 -----
40 arbhar can load Presets, Layers, and Scenes.
41
42 'Load Preset' will load all parameters defined in the configuration file and ignore any
43 audio files that are present in the _arbhar_scene directory. The parameters will set arbhar
44 to the defined configuration and may change the control behaviour of arbhar drastically, but
45 all content in the layers will be preserved. This option is equal to only having a
46 configuration file in the directory.
47
48 'Load Layers' will load the first 6 audio files present in the _arbhar_scene directory,
49 and ignore all the parameters defined in the configuration file. The control behaviour of the
50 arbhar will remain the same, but the audio files in the layers will be replaced. This
51 option is equal to having audio files in the directory, but no configuration file.
52
53 'Load Scene' will load all parameters defined in this configuration file and
54 the first 6 audio files present in the _arbhar_scene directory.
55
56 0 - Load Nothing
57 1 - Load Preset
58 2 - Load Layers
59 3 - Load Scene (Preset and Layers) (Default)
60 */
61
62 PARAMETER: LoadConfiguration: 3
63
```

You can change the **preset.txt** files to any name you choose. The custom **preset.txt** files on the USB have been named as follows:

arbharClassic.txt, MidSide.txt, Intervals.txt, Stereo.txt

If viewing on MacOS these will also be flagged with a colour tag for easy identification.

abharClassic.txt

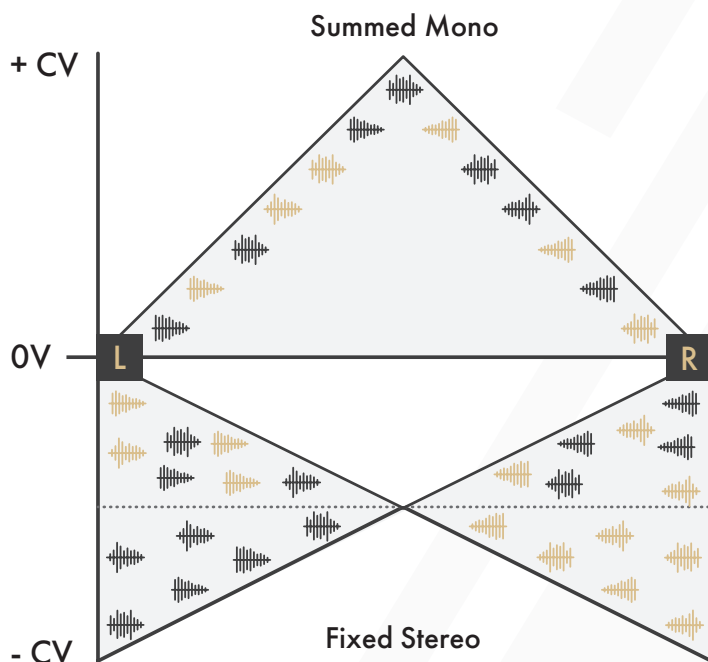
This configuration is designed to give the user as close an experience to classic arbhar V1 behaviour as possible.

For users new to the arbhar, this is a great starting point.

MidSide.txt

This configuration is designed with the **MOD CV Input** set to **Stereo Panning Configuration**.

- At 0V, arbar distributes the grains in the default coin toss method.
- With increasing the positive voltage the stereo spread is gradually reduced, until it becomes a summed mono signal. This is addition to the coin-toss algorithm.
- With increasing negative voltage, the panning algorithm offers following stages:
 - In addition to the coin-toss distribution, an increasingly random deviation from the left and right extremes is introduced until a fully random, equal-power stereo distribution has been reached.
- From there the coin-toss distribution is switched off and a gradually reduced, random deviation leads eventually to a fixed stereo distribution.



Scenes: 2_3_scene, 4_1_scene, 4_2_scene, 4_3_scene, 4_4_scene, 4_5_scene and 4_6_scene are designed to use positive modulation with the **MOD CV Input** to modulate between stereo and summed mono playback.

- These samples all utilise a form of mid/side processing applied in the mixing stage, where the sides are a phase-inverted copy of one another (indicated with **LRØ** in the file name).
- When modulating from 0v to fully positive CV, the sides will sum and fully cancel each other out leaving only the mono centre audible and unchanged.

Scenes: 2_2_scene, 2_4_scene and 2_5_scene are designed to use fully negative modulation with the **MOD CV Input** to preserve the stereo imaging of the samples during granular playback. This is particularly useful when using binaural recordings, where the original sense of space is preserved.

Intervals.txt

Scenes: 3_1_scene to 3_6_scene are modular patch samples designed around specific scales, known as **Modes of Limited Transposition [1]**.

- To compliment each of the unique harmonic colours these modes offer, the **Intervallic Voltage Offsets** have been curated to produce notes within the specific mode.
- As the **Pitch Deviation Knob** is turned clockwise, pairs of intervals above and below the pitch centre will be introduced.
- The further you turn the **Pitch Deviation Knob**, the further from the pitch centre the intervals become. They also become more dissonant.
- The first 2 pitch deviation values are consistent throughout; 2 sets of octaves, doubled to give more frequency to these intervals when modulating via CV.

They are as follows:

12 / 0 / -12 (Octave up and down)

-12 / 0 / 12 (Octave down and up)

Additional Pitch Deviations:

MODE I :

PITCH DEVIATIONS:



12 / 0 / -24 (Octave up, 2 Octaves down)

-12 / 0 / 24 (Octave down, 2 Octaves up)

24 / 0 / -26 (2 Octaves up, Augmented 6th 2 Octaves down)

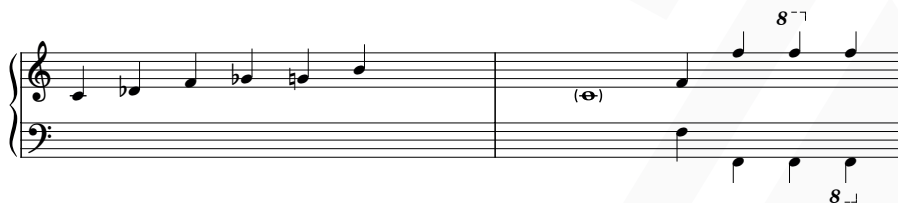
18 / 0 / -18 (Augmented 4th an Octave up and down)

MODE III:**PITCH DEVIATIONS:**

- 7 / 0 / -5 (Perfect 5th up and down)
 -5 / 0 / 19 (Perfect 5th down and Perfect 5th up an Octave)
 -17 / 0 / 19 (Perfect 5th up and down an Octave)

MODE IV:**PITCH DEVIATIONS:**

- 7 / 0 / -5 (Perfect 5th up and down)
 -5 / 0 / 19 (Perfect 5th down, up an Octave)

MODE V:**PITCH DEVIATIONS:**

- 5 / 0 / -7 (Perfect 4th up and down)
 17 / 0 / -19 (Perfect 4th an Octave up and down)
 29 / 0 / -7 (Perfect 4th 2 Octaves up and an Octave down)
 17 / 0 / -31 (Perfect 4th an Octave up and 2 Octaves down)

MODE VI:

PITCH DEVIATIONS:



5 / 0 / -7 (Perfect 4th up and down)

17 / 0 / -7 (Perfect 4th an Octave up and Perfect 4th down)

5 / 0 / -19 (Perfect 4th up and Perfect 4th 2 Octaves down)

18 / 0 / -18 (Augmented 5th Octave up and down)

MODE VII:

PITCH DEVIATIONS:



-24 / 0 / 12 (2 Octaves down, Octave up)

-24 / 0 / 24 (2 Octaves down and up)

36 / 0 / -36 (3 Octaves down and up)

48 / 0 / -48 (4 Octaves down and up)

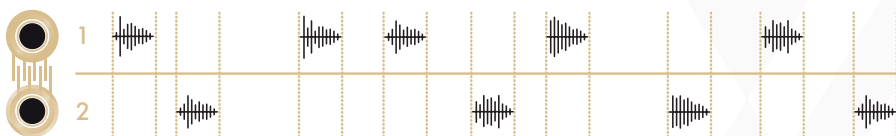
Note: Some higher-pitched material may sound harsh when pitched beyond 2 Octaves, these values are still useful when working with lower-pitched material.

Stereo.txt —

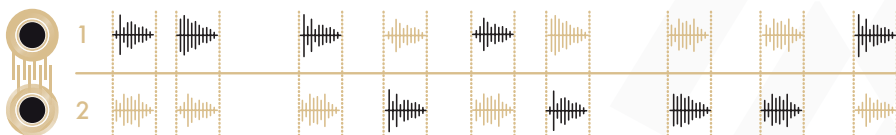
Scenes: 5_6_scene, 6_4_scene, 6_5_scene and 6_6_scene are designed simply to support samples that benefit from a stereo input. This will not retain the original stereo image, grains will still fire randomly from Left to Right and vice versa, but both channels will be granulated by the engine independently.

A comprehensive list of all of the preset.txt files capabilities can be found in the [arbhar Manual \(Firmware V2.0\)](#).

Mono: grains “coin-toss” between **Output 1** and **Output 2**

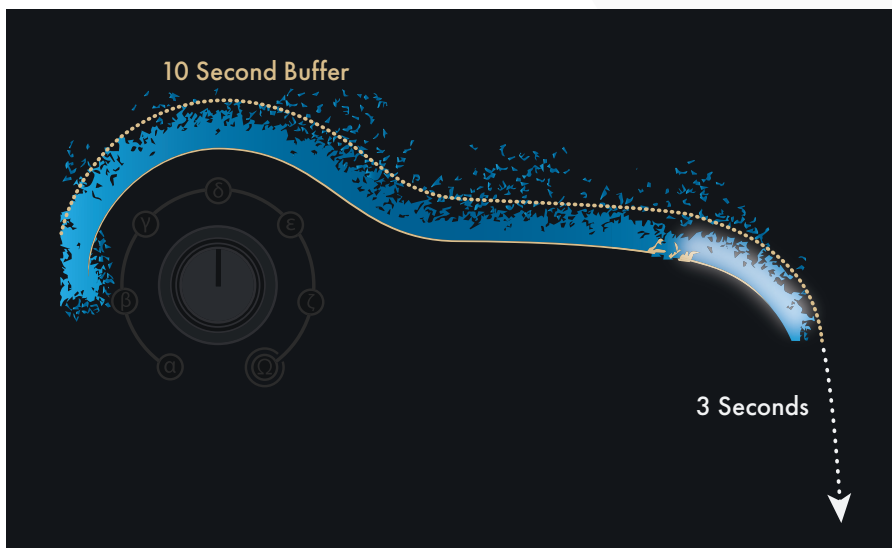


Stereo: grains coin toss L/R or R/L



Clone / Load / Save —

The accessible audio buffer, which is indicated by the **Granular Stream Display**, is controllable over 10 seconds, however, samples of up to 13 seconds are permissible. This is to allow the user to scan to the very end of the **Granular Stream Display**, and still generate the maximum grain length of 3 seconds.

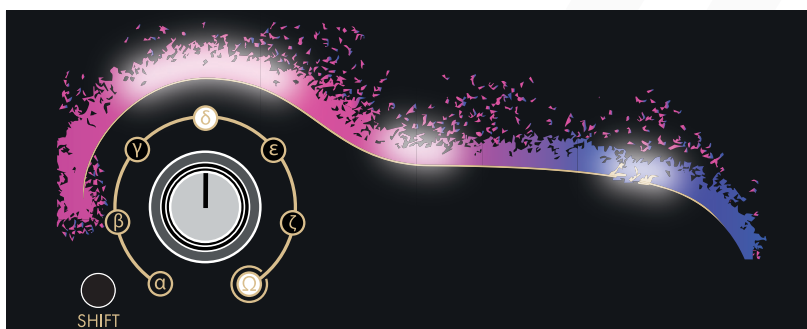


Note: Multiple samples can be loaded into a single **Layer** as long as the cumulative length does not exceed 13 seconds. Any number of samples can be loaded and will appear alphanumerically in the **Layer** when loaded from the **Library**. These can be arranged by loading multiple samples into a single **Library** location.

Clone Layers —

Recordings can be cloned from one layer to another.

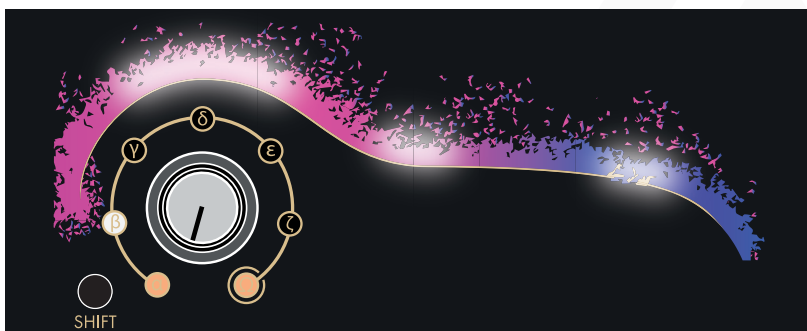
- Set the **Layer Knob** to the layer that will be cloned.
- Press and hold the **Shift**, **Capture**, and **Strike Buttons** in that order to enter the **Clone/Load/Save Menu**.
- Ensure that the **Granular Stream Display** is illuminated magenta and violet and that the **omega Layer Indicator** is illuminated white.
- If other colours are displayed, use the **Capture** and **Strike Buttons** to navigate to the correct page of the **Clone/Load/Save Menu**.
- Adjust the **Layer Knob** to set the destination of the cloned layer.
- Double tap the **Shift Button** to clone the layer.
 - This action does not exit the **Clone/Load/Save Menu** so that multiple clones can be made.
 - Visual feedback is given by a quick movement of the white LEDs from left to right in the **Granular Stream Display**.
- Press and hold the **Shift**, **Capture**, and **Strike Buttons** in that order to exit the **Clone/Load/Save Menu**.



Load Layers —

Audio files can be loaded into a layer from the `_arbhar_library` directory on the USB flash drive.

- Set the **Layer Knob** to the desired layer.
- Press and hold the **Shift**, **Capture**, and **Strike Buttons** in that order to enter the **Clone/Load/Save Menu**.
- Ensure that the **Granular Stream Display** is illuminated magenta and violet.
- If other colours are displayed, use the **Capture** and **Strike Buttons** to navigate to the first page of the **Clone/Load/Save Menu**.
- This is also indicated by a left sided pulsing white LED animation on the **Granular Stream Display**.
- Move the **Layer Knob** past the 6 clone layer indicators so that the **omega Layer Indicator** is illuminated amber to access 6 available banks containing 6 audio file locations (36 audio files in total).



- Each bank is indicated by amber-illuminated **Layer Indicators** and is accessible by adjusting the **Layer Knob**.
- Bank 1 is indicated by amber-illuminated **alpha** and **omega Layer Indicators**, Bank 2 is indicated by amber-illuminated **alpha**, **beta**, and **omega Layer Indicators**, etc.
- The selected **Sample** slot is illuminated white.

- Banks and locations are only accessible when a valid USB flash drive is installed.
- Adjust the **Layer Knob** to the desired bank and location.
- Press and hold the **Shift Button** to preview the audio file.
- Double tap the Shift Button to load the layer.
 - An LED animation indicates the disk activity of the loading procedure until completed.
 - This action will exit the **Clone/Load/Save Menu** so that immediate interaction with the new audio files can be made.
- If no layer is selected and loaded, press and hold the **Shift**, **Capture**, and **Strike Buttons** in that order to exit the **Clone/Load/Save Menu**.

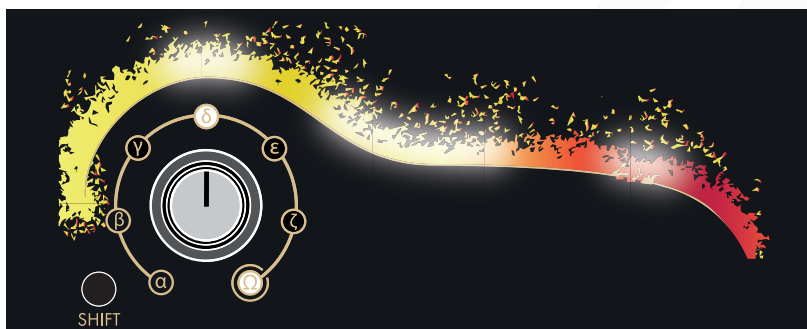
Load Scenes

Scenes, which are combinations of **preset.txt** configuration files and up to 6 audio files, can be loaded from the USB flash drive. Without a valid USB flash drive present, there are 6 local scenes that are accessible for sample management. A valid USB flash drive will add a further 36 scene locations, bringing the total to 42.

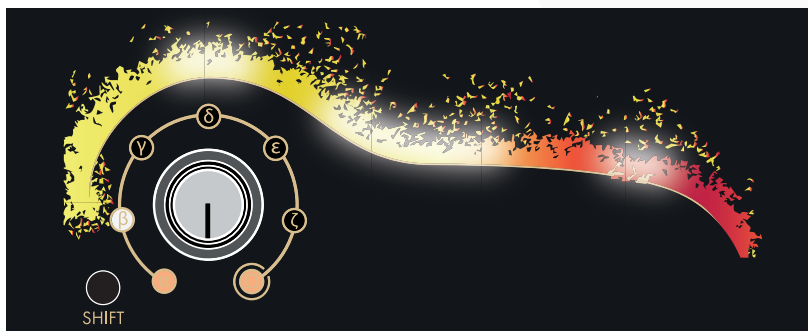
The **preset.txt** configuration file contains the **Load Configuration** parameter. This specifies whether the scene, the preset, or the audio file group is loaded.

The local factory default scenes are set with preset.txt configuration '**Load Preset**' that will only load the preset configuration and preserve any existing audio files in the layers.

- Press and hold the **Shift**, **Capture**, and **Strike Buttons** in that order to enter the **Clone/Load/Save Menu**.
- Ensure that the **Granular Stream Display** is illuminated yellow and red.
 - If other colours are displayed, use the **Capture** and
 - **Strike Buttons** to navigate to the second page of the **Clone/Load/Save Menu**.
 - This is also indicated by a centre pulsing white LED animation on the **Granular Stream Display**.



- When the **omega Layer Indicator** is illuminated white, access to the first local 6 scene locations is available by turning the **Layer Knob** to a desired layer.
- Move the **Layer Knob** past the 6 local scenes indicators so that the **omega Layer Indicator** is illuminated amber to access 6 additional banks containing 6 scene locations (36 extra scene locations in total).



- Each bank is indicated by amber-illuminated **Layer Indicators** and is accessible by adjusting the **Layer Knob**.
- Bank 1 is indicated by amber-illuminated **alpha** and **omega Layer Indicators**, Bank 2 is indicated by amber-illuminated **alpha**, **beta**, and **omega Layer Indicators**, etc.
- Banks and locations are only accessible when a valid USB flash drive is installed.
- The selected **Scene** slot is illuminated white.
- Adjust the **Layer Knob** to the desired bank and location.
- Double tap the **Shift Button** to load the scene.
- An LED animation indicates the disk activity of the loading procedure until completed.
- This action will exit the **Clone/Load/Save Menu** so that immediate interaction with the new audio files and configuration can be made.
- If nothing is loaded, press and hold the **Shift**, **Capture**, and **Strike Buttons** in that order to exit the **Clone/Load/Save Menu**.

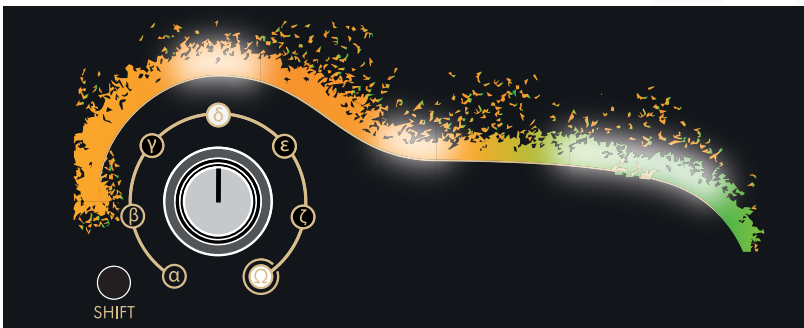
Saving Scenes

Scenes, which are combinations of preset.txt configuration files and up to 6 audio files, can be saved to the USB flash drive. With a valid USB flash drive installed, there are 42 different scenes that can be saved to arbhar. Without a valid USB flash drive installed, there are 6 local factory default scenes that can be saved to arbhar.

Any of the local factory default scenes can be overwritten with a customised scene. The arbhar will save all scenes with the configuration parameter set to '**Load Scene**' to ensure that the scene mirrors the current state of arbhar.

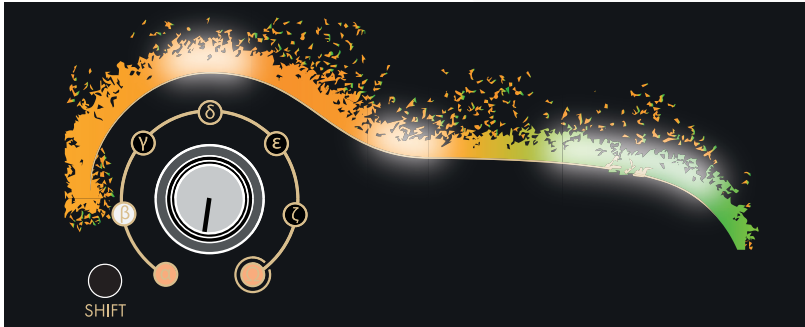
Note: arbhar will not delete any existing files but rename these files so that the saved files will appear alphabetically above.

- Press and hold the **Shift**, **Capture**, and **Strike Buttons** in that order to enter the **Clone/Load/Save Menu**.
- Ensure that the **Granular Stream Display** is illuminated orange and green.
- If other colours displayed, use the **Capture** and **Strike Buttons** to navigate to the third page of the **Clone/Load/Save Menu**.
- This is also indicated by a right sided pulsing white LED animation on the **Granular Stream Display**.



- When the **omega Layer Indicator** is illuminated white, access to the first six local scene locations is available by turning the **Layer Knob** to a desired layer.

- Move the **Layer Knob** past the 6 local factory default scenes indicators, so that the **omega Layer Indicator** is illuminated amber to access 6 additional banks containing 6 scene locations (36 extra scene locations in total).



- Each bank is indicated by amber-illuminated **Layer Indicators** and is accessible by adjusting the **Layer Knob**.
- Bank 1 is indicated by amber-illuminated **alpha** and **omega Layer Indicators**, Bank 2 is indicated by amber-illuminated **alpha, beta, and omega Layer Indicators**, etc.
- The selected **Scene** slot is illuminated white.
- Banks and locations are only accessible when a valid USB flash drive is installed and audio files are in the corresponding **_arbhar_scenes** folders.
- Adjust the **Layer Knob** to the desired bank and location.
- Double tap the **Shift Button** to save the scene.
 - An LED animation indicates the disk activity of the saving procedure until completed.
 - This action will exit the **Load/Save Menu** automatically at the end of the saving procedure.
 - Saving scenes is non-destructive.
- If nothing is saved, press and hold the **Shift, Capture, and Strike Buttons** in that order to exit the **Clone /Load/Save Menu**.