ABBEY ROAD ORCHESTRA

1ST VIOLINS

CONTENTS

INTRODUCTION

It's finally here; ARO first violins. 196,000 samples, 60+ hours recording, 2000+ hours editing, advanced legato programming — this is the most detailed we have ever made, delivered for the first time in 2 tiers: Core and Professional.

Core offers a comprehensive collection of articulations, a very high level of sampling depth and one Simon Rhodes curated signal option.

Pro goes above and beyond any library we've ever created — 8 legato articulations including extended patches, amazing sampling depth, 16 signal options and alternative attacks for the ultimate nuanced expression.

QUICK SPECS

MAC

Mac OS X 10.15 to OS12

Minimum: 2.8GHz i5 (quad-core), 8GB RAM

Recommended: 2.6GHz i7 (six-core, 2019), 16GB RAM (2019), Apple Silicon

SSD drive for installs advised!

WINDOWS

Windows 10 and Windows 11 (latest Service Pack, 64-bit)

Minimum: Intel 2.8 GHz i5 (quad-core) or AMD Ryzen 5.

Recommended: Intel 2.6 GHz i7 (six-core, 2019) or AMD R7 2700.

SSD drive for installs advised!

(32 bit DAWs not supported)

- PRO Download Size = 84.37GBs
- CORE Download Size = 122.9mb
- RESOURCES (Core/Pro) = 3.86GBs
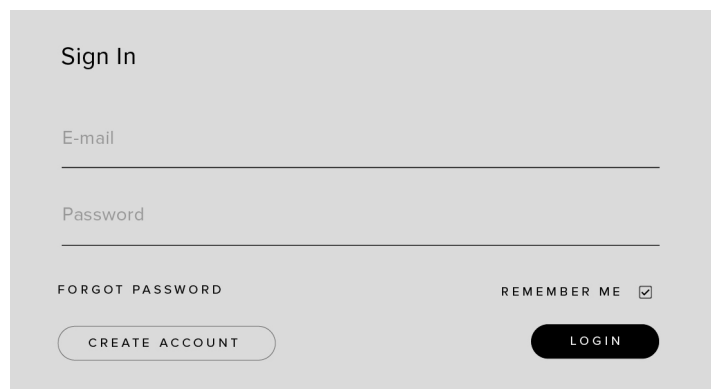- Dedicated plugin (AU, VST2, VST3, AAX)

DOWNLOADING & INSTALLING

Thank you for buying Abbey Road Orchestra - 1st Violins. If you are new to Spitfire Audio you can get up to speed here: https://www.spitfireaudio.com/about/

First though, grab the 'Spitfire Audio App' from this link, this app will enable you to download the library: http://www.spitfireaudio.com/info/library-manager/

THE SPITFIRE AUDIO APP

When you launch the app you will be prompted to login using the same details you use at our site. Then you'll see the page pictured below:
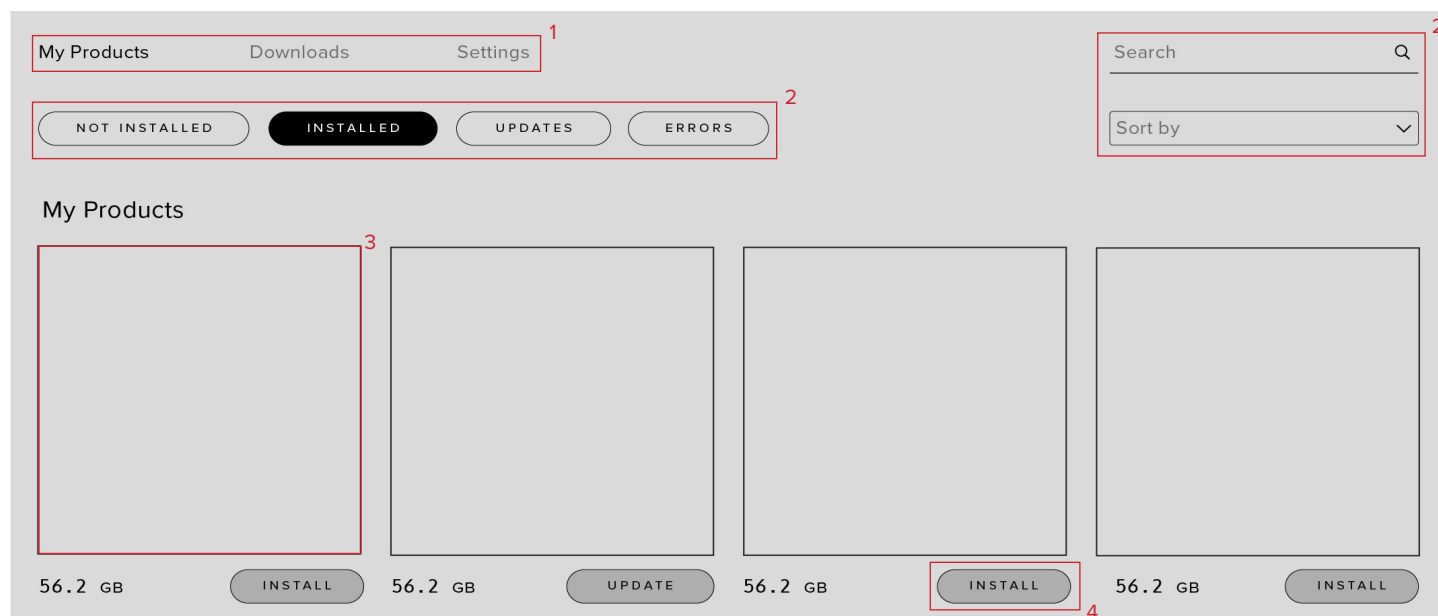
Sign In

E-mail

Password

FORGOT PASSWORD   REMEMBER ME ☑

CREATE ACCOUNT   LOGIN

1. TABS the default tab is My Products, which shows all of the libraries on your Spitfire Account. Downloads will show currently downloading products.
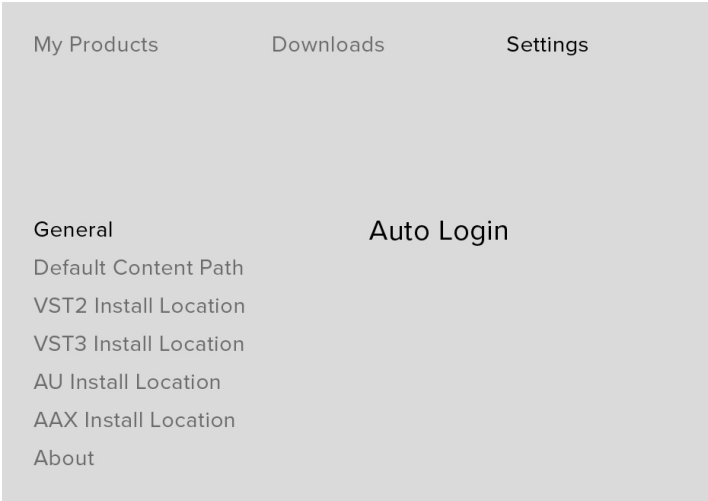
2. FILTERS Clicking these filters will quickly display products you've yet to install, those already installed, and any available updates. Clicking again will remove the filter.

3. LIBRARY All libraries and plugins in your collection will appear with their artwork on the My Products tab. Clicking this artwork will open the product page. This is a great place to find information such as system requirements and instructions as well as Reset and Repair options.

4. INSTALL/UPDATE buttons allow you to quickly start a download directly from the My Products tab, instead of clicking through to the Library. Next to the button the size of the download is shown.

My Products   Downloads   Settings   1   Search   🔍   2

NOT INSTALLED   INSTALLED   UPDATES   ERRORS   2   Sort by   ⌄

My Products

3

56.2 GB   INSTALL   56.2 GB   UPDATE   56.2 GB   INSTALL   56.2 GB   INSTALL
                                                                                    4

THE SPITFIRE APP PREFERENCES

My Products   Downloads   Settings

General   Auto Login
Default Content Path
VST2 Install Location
VST3 Install Location
AU Install Location
AAX Install Location
About

If this is your first time using the Spitfire Audio App for a download you may wish to first navigate to the Settings tab. Here you can set the Default Content location for where you wish to download your libraries. You can also you can set the default VST2 install location to the folder where your DAW expects to find VST files.

Here you can also enable Auto Login to save time in future.

Library Name

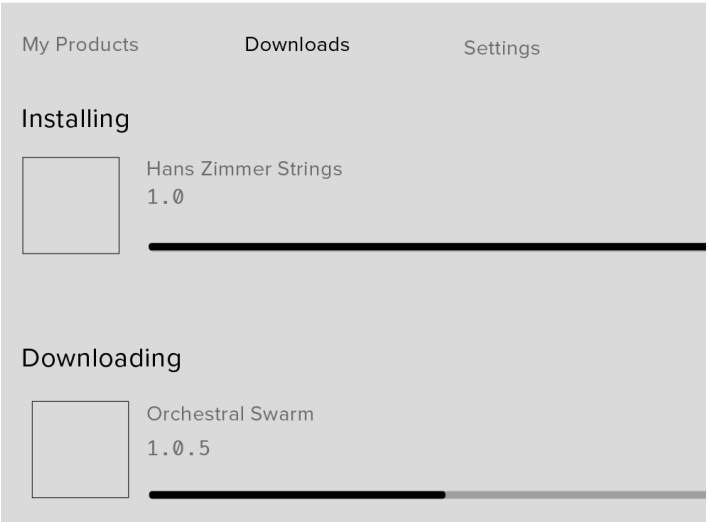Please select a location to install your products

Spitfire   ∨

Which of these products would you like to install?

Library Name (00.0 GB)
    Library Name (00.0 GB)   ☑
    Library Samples (00.0 GB)   ☑

Files will be saved to:/User/Product/Spitfire

CANCEL   INSTALL
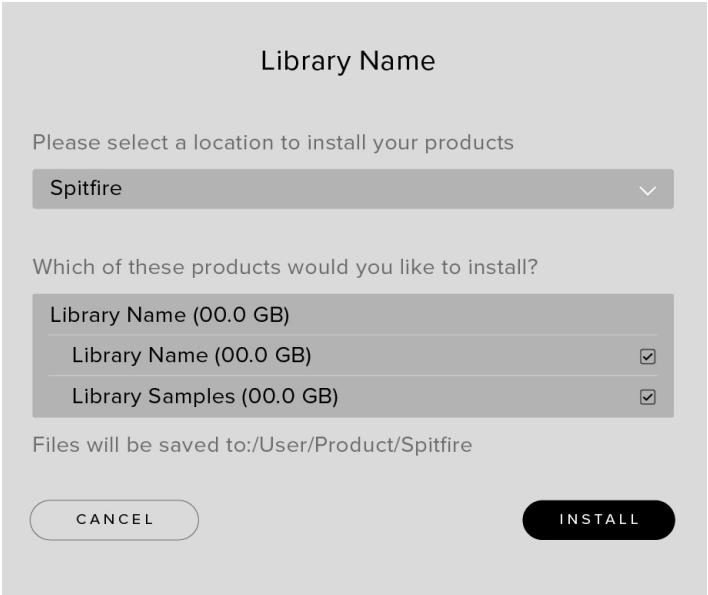
Once you are happy with your preferences, click the Install button for the library. This is either directly on My Products tab under the library artwork, or it can be found by clicking on the library image and clicking the install button on the page that appears.

Clicking either of these will prompt you for a location, the default content location in your preferences will be suggested but you can select any suitable location. If installing from a hard drive, ensure that you choose the drive as the location.

Once you are happy with the location click Download.

My Products   Downloads   Settings

Installing

    Hans Zimmer Strings
    1.0

Downloading

    Orchestral Swarm
    1.0.5

After clicking install you will be directed to the Downloads tab where you can watch the progress if you like. You can of course leave the Downloads tab and start other downloads but at this point you should leave the Spitfire App open until the download completes.

THE DEDICATED PLUGIN

Abbey Road Orchestra is its own, self contained plugin built for VST, AU and AAX, so once you've downloaded and installed you're ready to go.

LOGIC PRO X

• On a fresh project, a track dialogue box will automatically pop up

• Choose 'Software Instrument', and then look beneath the 'Instrument' dropdown

• Select AU Instruments > Spitfire Audio > Abbey Road Orchestra

CUBASE

• Right-click the track window and choose 'Add Instrument Track'

• Underneath the 'Instrument' dropdown, choose Abbey Road Orchestra

• Select 'Add Track'

PRO TOOLS

• Go to the 'Track' menu at the top of the screen, and select 'New'

• In the pop-up, select Stereo and Instrument Track, and press 'Create'

• In the first Insert slot, select multichannel plug-in and 'Instrument'

• You should see the Abbey Road Orchestra available as an option

STANDARD INTERFACE (QUICK LOOK)

THE ABBEY ROAD ORCHESTRA
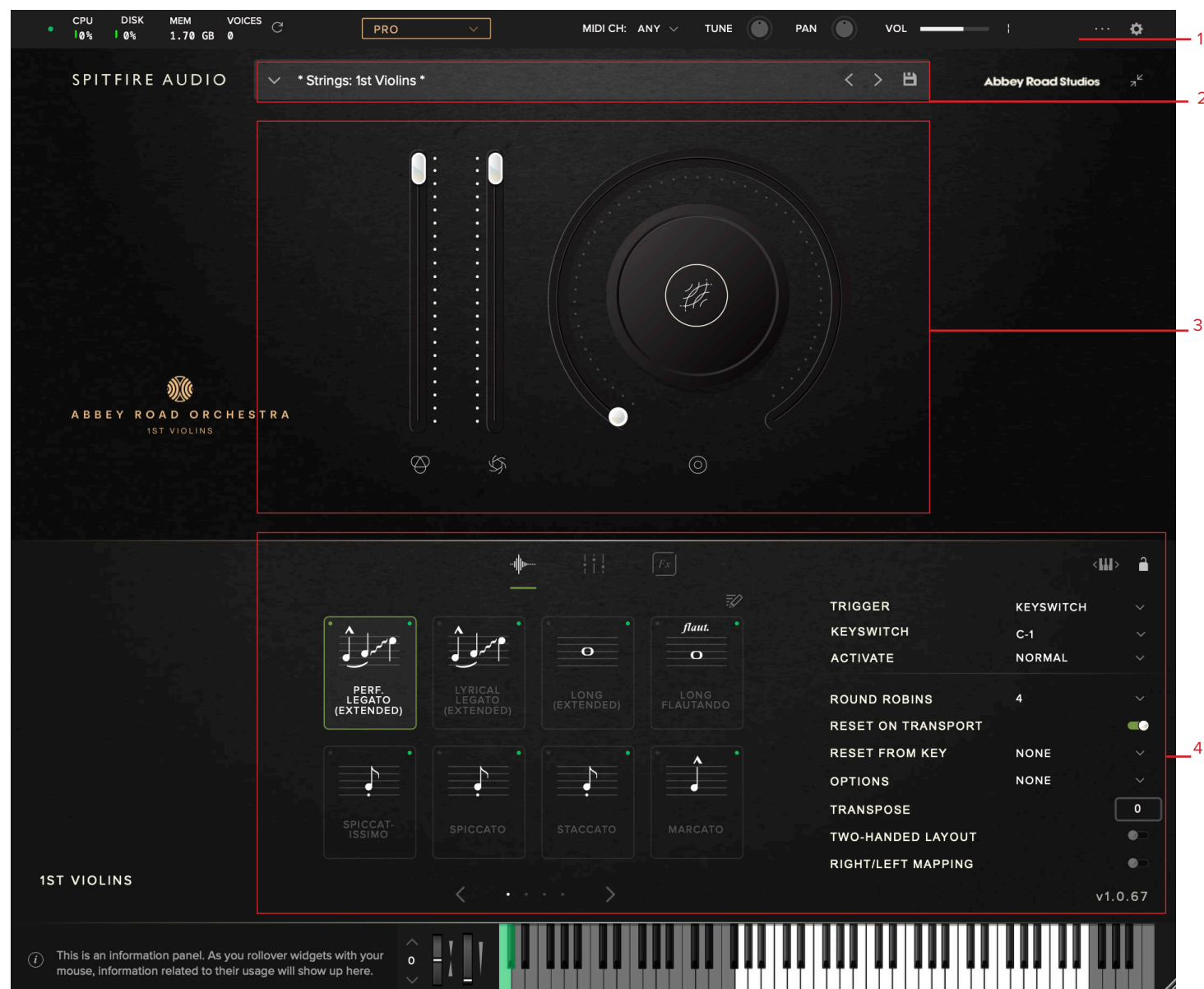
OPENING YOUR FIRST PRESETS

When you first open Abbey Road Orchestra, this is what you will see.

1. TOP MENU

2. PRESET SELECTOR

3. MAIN CONTROLS

4. TECHNIQUE SELECTOR

SIGNAL MIXER

CONTROLLERS

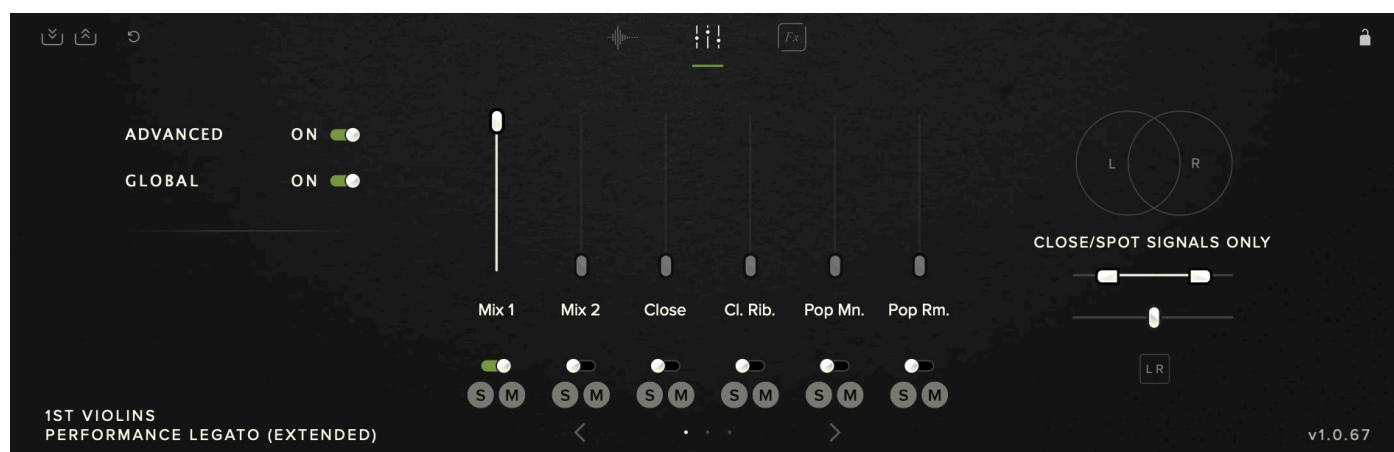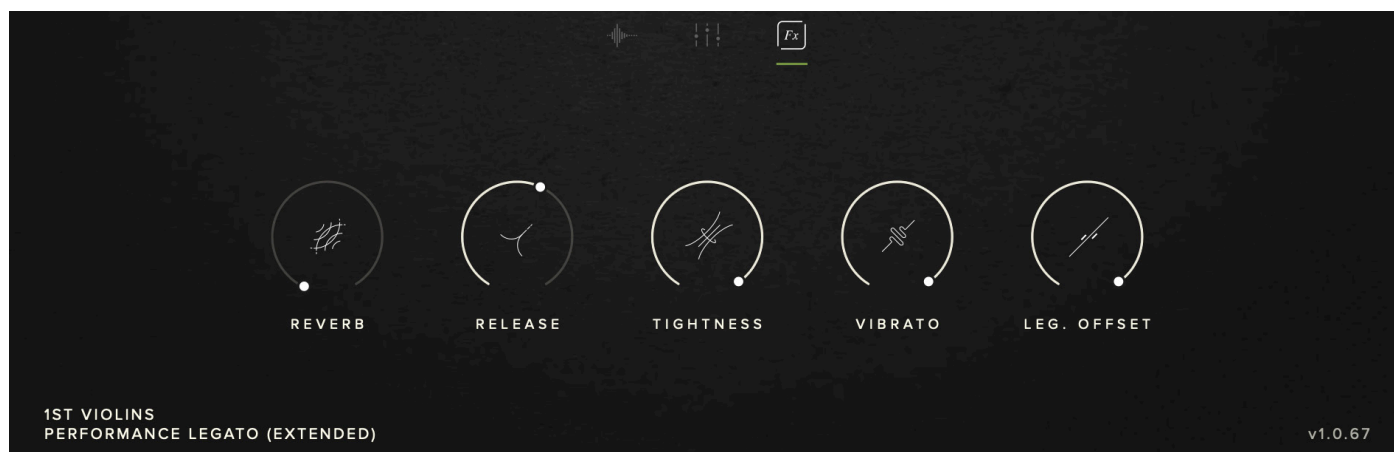## KEYBOARD & INFO

Hovering over the keyboard with the mouse displays information about the articulation mapped to each key. For example it identifies which hand is used when Right/Left Mapping is enabled.

PRESET SELECTOR
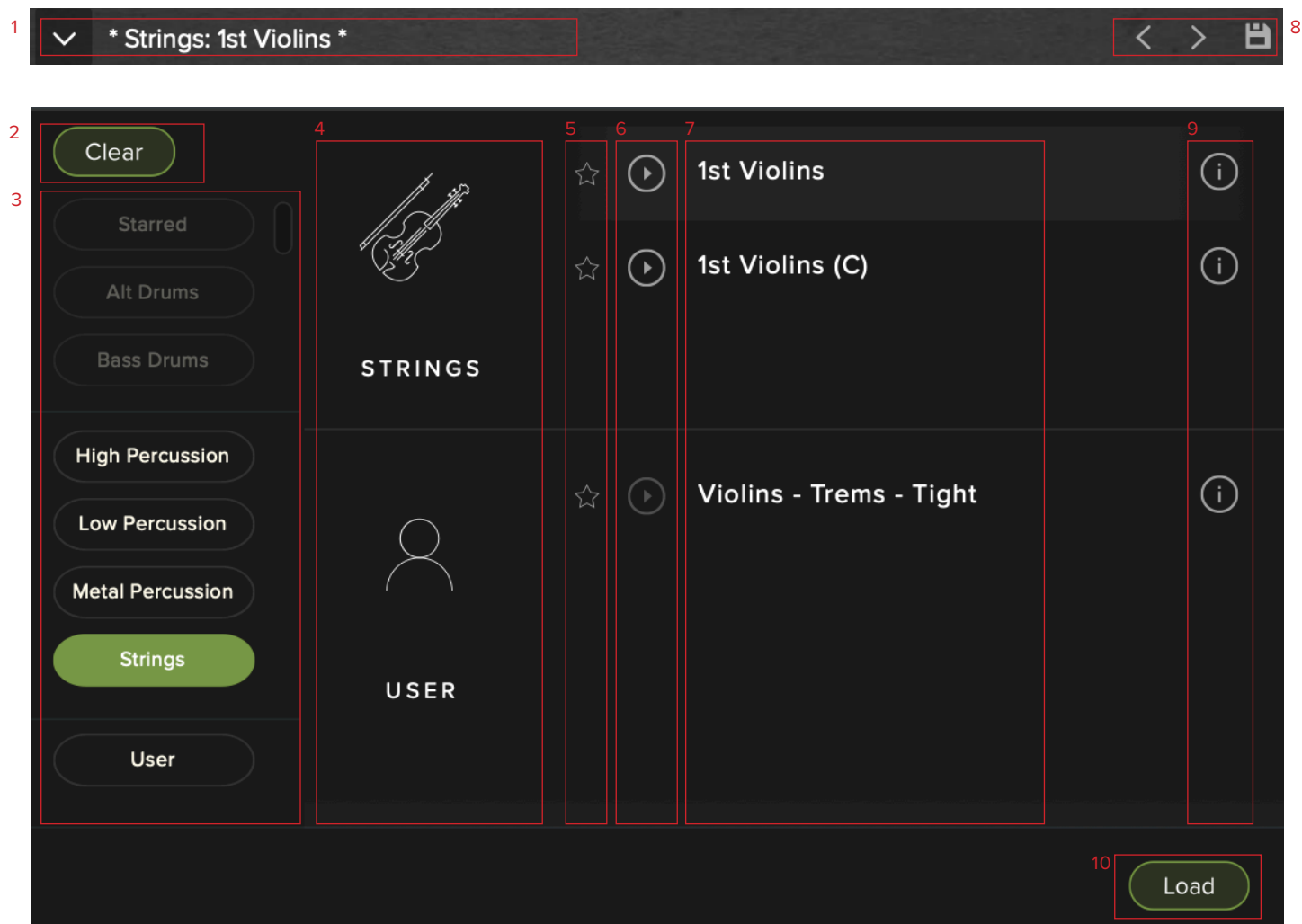
1. PRESET NAME

Here you can see the currently selected preset.

2. CLEAR FILTERS

Click here to show all instruments at once.

3. FILTERS

Click on a filter to only show those preset grouped by the filter.

4. INSTRUMENT GROUP

As you scroll through the available presets, the instrument group is displayed here.

5. STAR

Favourite to add to the "starred" filter.

6. PREVIEW

Play back a short example of the preset without having to load it. Enormously helpful when choosing a sound.

7. PRESET LIST

Scroll through the list of presets here. Double-click to load a preset or click the 'Load' button.

If the preset has (c) in its name, this refers to a "Core" preset. Selecting a core preset will mode switch the plugin to core.

8. NEXT, PREVIOUS AND SAVE

With the presets view collapsed, you will be able to see the Next, Previous and Save icons.

Next and Previous will send you to the next available preset - if you have a filter enabled, you will scroll through the filtered set of presets.

Save allows you to save your own preset, click save, name the preset and it will appear under the "user" filter as shown in the image.

9. INFORMATION

Hover over on the "i" icon to see some information about the preset.

10. LOAD

Select a preset and then press "load" (or double-click the preset).

MAIN CONTROLS

1   2   3   3.1

1. VOLUME

Often referred to as "Expression" in our Kontakt Libraries, this is a simple level control for you to adjust along with...

2. DYNAMICS

Adjust the dynamic layer that you are playing here, use in conjunction with the volume to make your performances sound so much more musical. By default, this only affects long articulations, I.e Longs, unless the behaviour is altered in the preset settings.

3. KNOB

The configurable knob allows you to control any of the other available parameters for the particular technique.

Hover over the knob and it will turn yellow.

Click and you will be able to assign any of the remaining available controls to the knob (3.1)

Right click on any of these controls to assign them to a MIDI controller.

Reverb - Increase to add reverberation to the sound.

Release - Adjusts the release sample lengths and crossfades into the releases

Long Techniques:

75-100% = Longest release option. More 'pad-like', but very smooth

50-74% = The default option. Best balance between natural and not too long!

25-49% = Slightly 'snappier' option than the default

0-24% = Shortest release option, and will modulate the volume of all release triggers (i.e. at 0% the RT samples will be attenuated by 40%, whereas at 24% the volume would be unchanged)

Please note that the options are slightly different for Tremolo, and the default is the 3rd option (25-49%).

Short techniques:

100% = 4000ms release,
0% = 1000ms release

This controller modulates the full range, so 50% would be a 2000ms release.

Holding a key will always result in the full release length of 4000ms, regardless of the release setting.

Tightness - Adjusts the start offset of the instrument

@ 100% = -40ms,
@ 0% = -80ms

Vibrato - Controls the level of vibrato on long and legato techniques.

Long: Senza (non), Poco, Molto

Legato Techniques: Poco, Molto

Legato Offset - This controls the offset of the legato interval on legato techniques and affects the responsiveness of the legato intervals.

Lower settings will reveal more of the legato interval.

Higher settings will have a quicker responsiveness for live playing.

This control also enables consistency when quantising. For example, if you had your midi quantised, the legato would be in time with a 200ms track offset when the Leg.

Offset control at Max (see table below)

LEGATO OFFSET VALUES

Minimum (0%)
Maximum (100%)
Performance Legato
    MIN - 150ms
    MAX - 100ms
Lyrical Legato
    MIN - 200ms
    MAX - 100ms

Runs Legato
Legato Detaché
Legato Portamento
Legato Allegro
    MIN - 200ms
    MAX - 100ms

TECHNIQUE SELECTOR
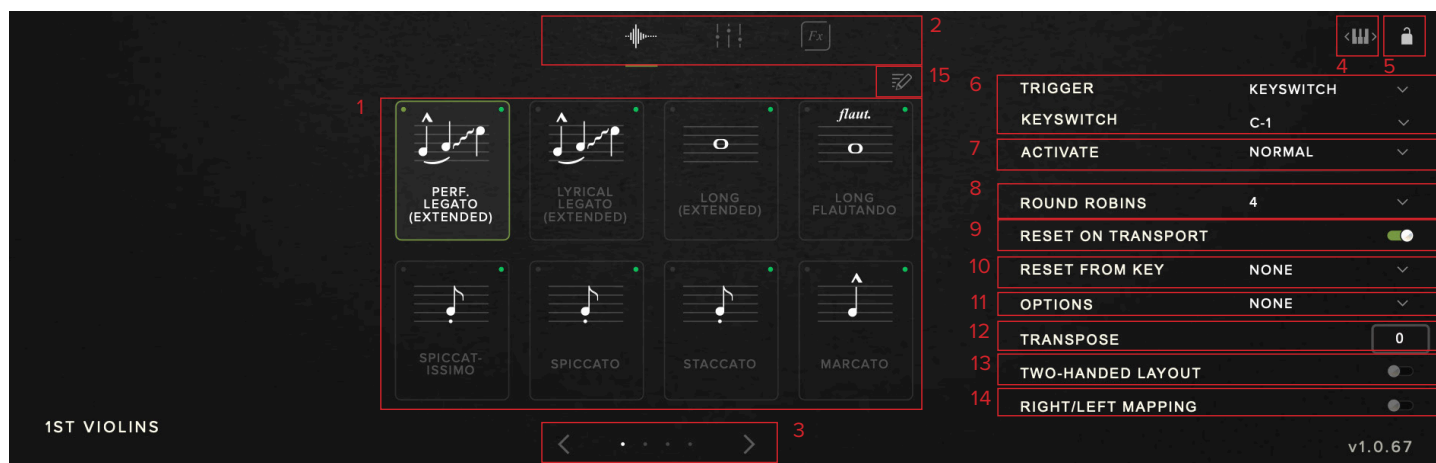
1. TECHNIQUE SWITCHER

Click to select a technique. Shift-Click to select multiple techniques. The red dot in the top left shows which technique(s) will play, the black outline shows which technique will be affected by any changes you make to the other options in this page.

2. VIEW SELECT

Choose between the Technique Switcher, Mixer, Effects and the auto arranger. The Technique Switcher and Effects are covered in the following chapters of this manual.

3. TECHNIQUE NAVIGATION

This option is visible when more than 8 articulations are available. Click the right arrow to access additional techniques.

4. KEYSWITCH ADJUST

Click and drag to move the keyswitches to the left or right on your keyboard.

5. LOCK

Click here to lock off the technique section and prevent any unwanted changes.

6. TECHNIQUE TRIGGER

With the technique trigger section you can choose to trigger techniques using various parameters:

KEYSWITCH: Pick a key on the keyboard that will select this technique. The selected keys will show up in green for unselected techniques and in orange for selected techniques.

CC RANGE: Choose a CC# and a range of values (or a single value) for the control that you want to trigger this technique.

VEL. RANGE: Switch technique based on how hard you are playing. You might want to trigger rolls when playing softly and singular hits when playing hard.

MIDI CHANNEL: Switch techniques based on the incoming MIDI channel.

SPEED: Switch technique based on the speed of playing. Specify the time interval between notes to switch to a particular technique.

PROGRAM CHANGE: Switch technique based on the 127 values provided for Program Changes.

7. ACTIVATE

Choose between "NORMAL" and "LATCH" for your technique switching.

A "normal" keyswitch will change articulation and remain on the changed articulation until the next keyswitch is pressed.

Latch will switch articulation until the keyswitch note is released. On release, the keyswitch returns the original articulation.

8. ROUND ROBINS

Round robins are a way to ensure that repeated notes don't sound robotic and unnatural. We record the same note multiple times and then cycle through them. Here you can choose to reduce the number of round robins that are being used.

9. RESET ON TRANSPORT

If you're worried about the effect of the round robins making each run through of your session sound different, you can choose to reset the round robins using the DAW transport.

10. RESET FROM KEY

You can also reset the round robins using a keyswitch. Choose that keyswitch here

11. RR OPTIONS

NEIGHBOUR ZONE RR: Double the number of round robins by "stealing" notes from neighbouring notes and transposing them to match the pitch.

LAYER X2: Thicken the sound by layering round robins on top of one another. This option will play round robins 1/2 followed by 3/4, effectively halving the number of round robins.

LAYER X2 (NO SKIP): Same as above but this time you will be playing 1/2 followed by 2/3 and so on, meaning that you will not halve the number of round robins available.

LAYER +2: This option will play the round robins from the tone above the key played but transposed down so that it plays at the right pitch.

LAYER -2: This option will play the round robins from the tone BELOW the key played but transposed UP so that it plays at the right pitch.

12. TRANSPOSE

Transpose the instrument up or down in 1 semitone increments.

13. TWO HANDED LAYOUT

Not used in Abbey Road Orchestra - 1st Violins.
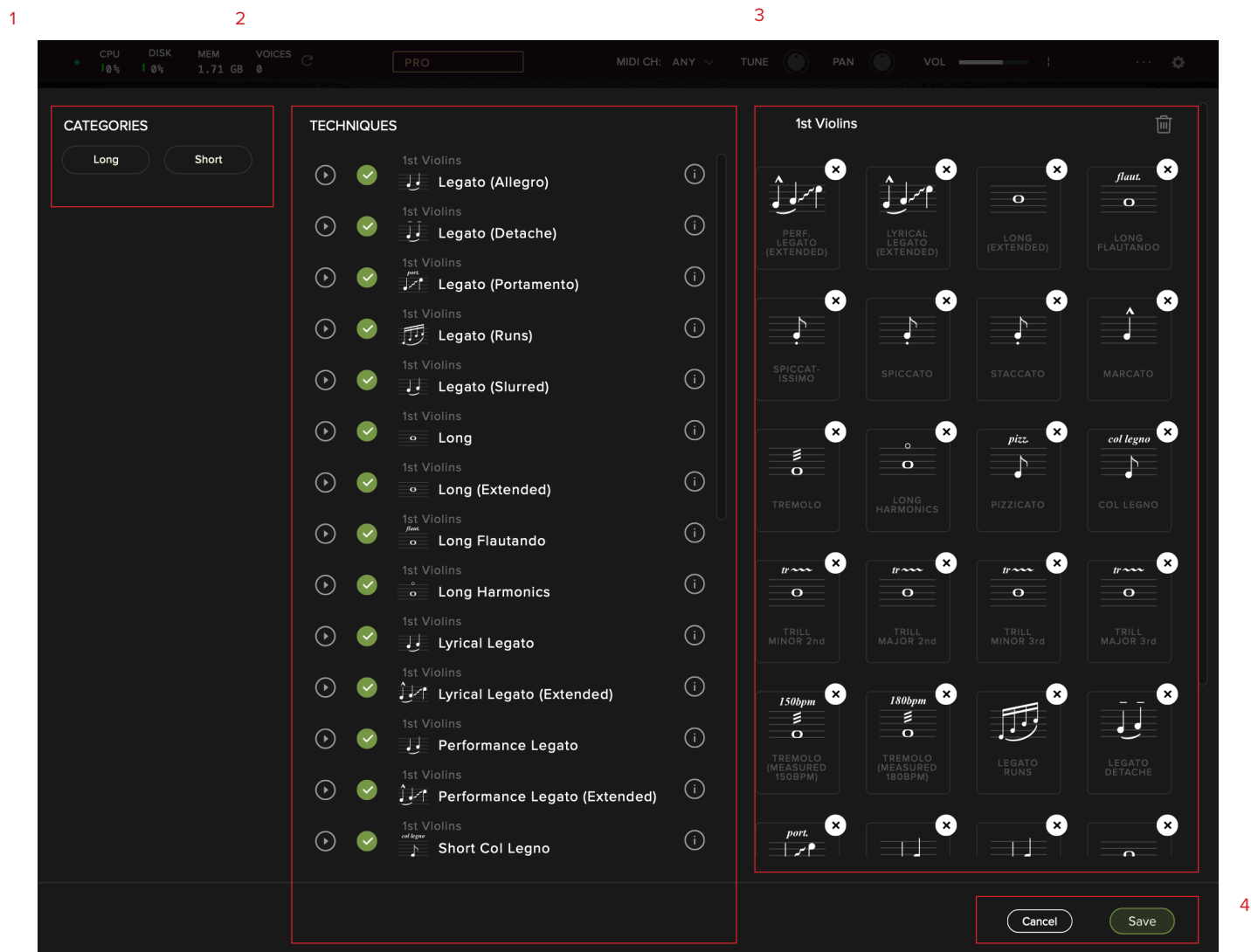
14. RIGHT/LEFT MAPPING

Not used in Abbey Road Orchestra - 1st Violins.

15. TECHNIQUE EDITOR

Opens the Techniques Editor, allowing you to customise and edit your preset (see).

TECHNIQUE EDITOR

In the Technique Editor you can remove and reorder techniques from the current preset.

1. CATEGORIES

The Categories panel allows you to filter between all available techniques for this specific preset.

2. TECHNIQUES

The central 'Techniques' panel shows all available techniques for each preset. Click the '+' to add techniques back into your current preset.

3. TECHNIQUE EDITOR

The panel on the right is where your current articulations are displayed. Click and drag these to re-arrange the order. Clicking the 'x' in the top right corner deletes the technique. Click the 'trash-can' in the upper corner to remove all techniques completely in a single click.

4. CANCEL / SAVE

Once you're done, click 'Save'. If you have made a mistake and don't want to save, choose 'Cancel' instead to go back to your previous settings.

SIGNAL MIXER
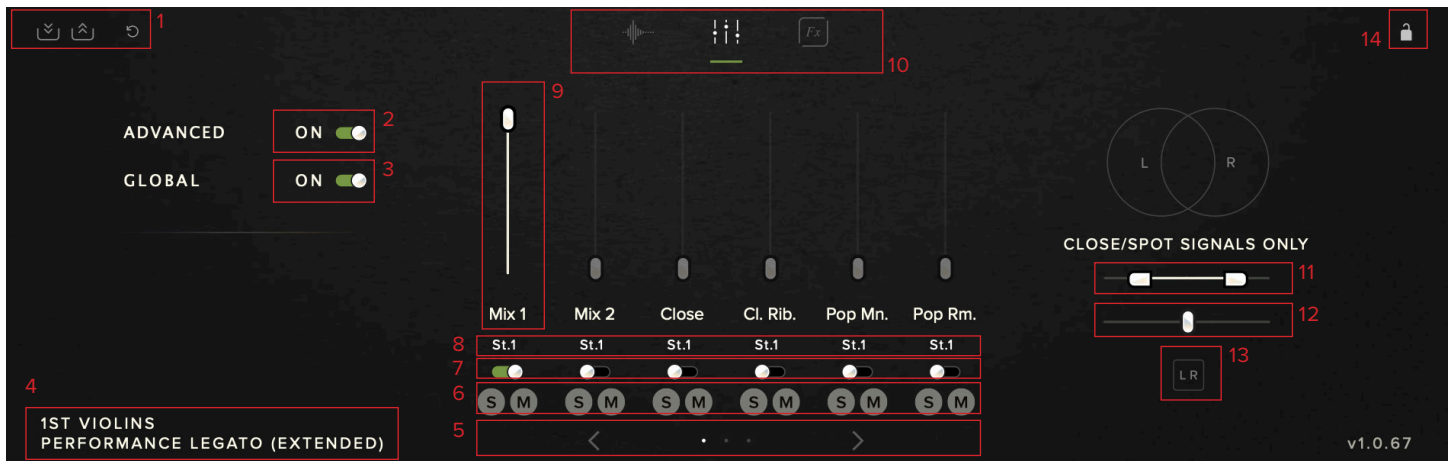
1. MIXER PRESETS

Load and save your own mixer presets here, this is a good way for you to share your mixes across different instruments and presets. Click on the down arrows to save and the up arrows to load.

To rename a preset after saving or delete a preset, browse to Abbey Road Orchestra > Presets > Mix in the finder and edit the .mpreset files.

2. ADVANCED

3. GLOBAL

When switched off any changes to mixer will only affect the technique you have selected.

4. TECHNIQUE NAME

5. ARROWS

Click left and right to see another page of signals.

6. SOLO / MUTE

Click S (Solo) to isolate that signal. Hear multiple signals isolated by clicking S below multiple signals.

Click M (Mute) to silence a signal whilst keeping it active. Silence multiple active signals by clicking M below multiple signals.

Holding 'shift' and clicking solo allows the user to solo more than one channel if desired.

Alt+click on a solo unsolos all

Alt+click on a mute unmutes all

Alt+click on a mute removes all mutes but leaves solos and vice versa.

This behaviour can change by using "Solo Latch"

CMD+Click snaps level to 100% (and turns the signal on)

7. SIGNAL ON/OFF

Here you can turn signals on or off (you can also turn them on by fading them up). If you turn a signal on, pay attention to the LED in the top left of Abbey Road Orchestra, if it is flashing red, it means that the samples are still loading into RAM and you should wait before playing again to avoid glitches.

8. MULTI OUTPUTS

When active, click below the signal fader to assign that signal to a different stereo output. This allows the users to keep signals separate in the DAW when mixing.

9. SIGNAL FADER

Adjust the level of each signal here, right-click to learn MIDI CC# automation.

10. VIEW SELECT

Choose between the Technique Switcher, Mixer and Effects.

11. STEREO WIDTH

Adjust the stereo width of the close

Right-click to assign to a MIDI CC#. Affects Close signals only.

12. PAN

Adjust the position of the close signals (1, 2, Close Ribbon and Pop Close) within the stereo field.
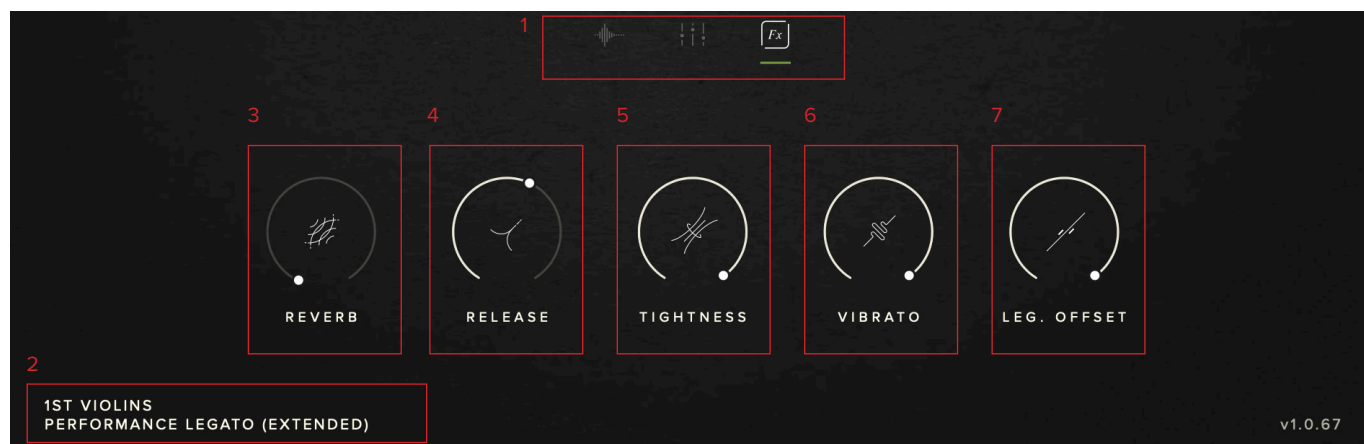
13. INVERT

Click to swap the left and right channels.

14. LOCK

Click to lock the Mixer. This will prevent further changes to the mixer by CC or Mouse.

MAIN FX

1. VIEW SELECT

Choose between the Technique Switcher, Mixer, Effects and the auto arranger. The Technique Switcher and Effects are covered in the following chapter of this manual.

2. TECHNIQUE NAME

3. REVERB

You can add additional reverb to the sound here.

4. RELEASE

Controls the release time of the long techniques.

100% = 4000ms release,
0% = 1000ms release

This controller modulates the full range, so 50% would be a 2000ms release.

Holding a key will always result in the full release length of 4000ms, regardless of the release setting.

5. TIGHTNESS

At 0% this control cuts further into the sample start to make the response sharper.

6. VIBRATO

Controls the level of vibrato on long and legato techniques.

7. LEGATO OFFSET

This controls the offset of the legato interval on legato techniques and affects the responsiveness of the legato intervals.

Lower settings will reveal more of the legato interval.

Higher settings will have a quicker responsiveness for live playing.

This control also enables consistency when quantising. For example, if you had your midi quantised, the legato would be in time with a 200ms track offset when the Leg.

LEGATO OFFSET VALUES

Minimum (0%)
Maximum (100%)
Performance Legato
        MIN - 150ms
        MAX - 100ms
Lyrical Legato
        MIN - 200ms
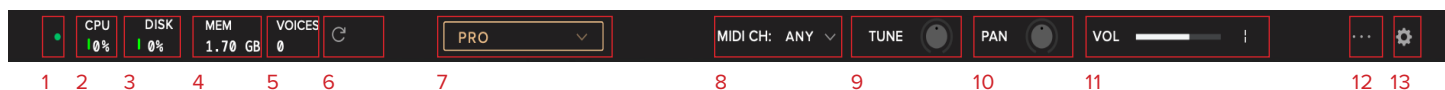   MAX - 100ms

Runs Legato
Legato Detaché
Legato Portamento
Legato Allegro
        MIN - 200ms
        MAX - 100ms

TOP MENU

1. LED

Shows when an instrument is loaded by lighting solid green. If this flashes, your instrument is not fully loaded.

2. CPU METER

An indication of how much your CPU is being taxed, the green flash next to the CPU meter will turn red when you are overloading it.

3. DISK METER

How hard your hard drive is working. If this is close to, or going over 100% it's time to consider a faster drive.

4. MEMORY

This shows how much RAM you are currently using in this instance of Abbey Road Orchestra. While the preset is loading, this will show the instrument loading into memory.

5. VOICES

Shows how many voices are being used at any one time.

6. REFRESH

Refresh the instrument, alt-click to refresh the whole plug-in. This can be useful if you have hanging MIDI notes or have moved samples in your file system.

7. MODE SWITCHING

This dropdown menu will be available when the user has both versions of the product installed. "Core" and "Pro".

Click here to switch the tier of the product.

8. MIDI CH

Set the MIDI channel that will control the instrument here. If in doubt select "any" so that the instrument will react to any incoming MIDI messages.

9. TUNE

Move this knob to tune in increments of 0.01 of a semitone. CMD/CTRL-click to reset to default.
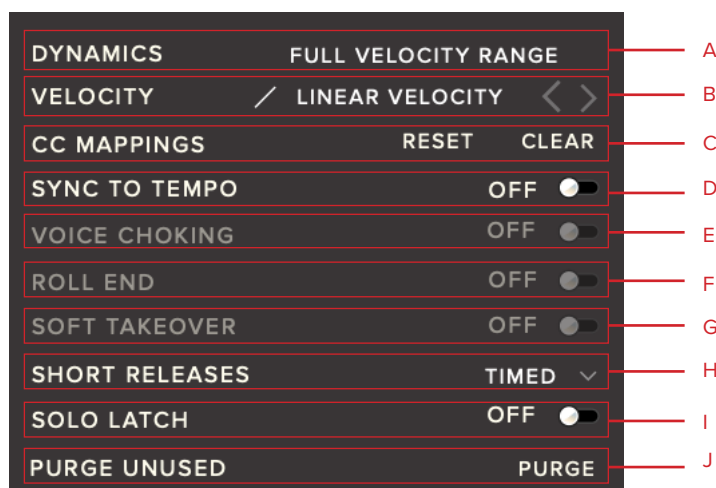
10. PAN

Pan the signal left / right. CMD/CTRL-click to reset.

11. VOLUME

Control the overall volume of the instrument.

12. PRESET SETTINGS

A. DYNAMICS

Different behaviours for the Dynamics fader.

1)   Full Velocity Range.
2)   Velocity Mapped to Dynamics.
3)   Compressed Velocity High.
4)   Compressed Velocity Low.

Velocity mapped to dynamics will allow you to control short note velocity with the mod wheel. This mode disables "Soft Takeover".

Compressed settings will limit the dynamic range to fixed dynamic layers and disable G. Soft Takever.

B. VELOCITY

Pick from 4 different velocity curves to suit your controllers touch.

C. RESET AND CLEAR CC MAPPINGS

Clicking reset will set all of the CC mappings for this instrument to the defaults - useful if you've got yourself in a mess!

Clear will remove all CC mappings on the plugin.

D. SYNC TO TEMPO

Enabling this will sync tremolo techniques to BPM.

This setting will increase CPU. Disable for better CPU performance or modify pitch stretch algorithm in settings,

E. VOICE CHOKING

Percussion libraries only:

Allows single hits to interrupt Rolls for more precise placement of end hits.

This would also affects the "Toys" patch, where "Guiros short scrapes" will interrupt medium and long scrapes,

F. ROLL END

Percussion libraries only:

Natural end hits have been recorded and will trigger on note-off if enabled here

G. SOFT TAKE OVER

Percussion libraries only:

Soft Takeover OFF: The velocity of the rolls / longs are determined exclusively by the modwheel.

Soft Takeover ON: Roll keys are now velocity sensitive (i.e how hard or soft the key is pressed determines the dynamic).

The modwheel only becomes active once the user scrolls to the velocity level they have triggered on the roll key.

When using this feature, the 'Dynamics' setting in the Preset Settings should be set to 'Full Velocity Range' (the default state).

H. SHORT RELEASES

Adjust the release samples.

Timed: Will allow you to release a note earlier than the length of the sample.

Untimed: Triggers a release at the end of the sample, meaning the full performance of the note will need to play out.

None: Will always play the full length of the sample, i.e. a one shot.
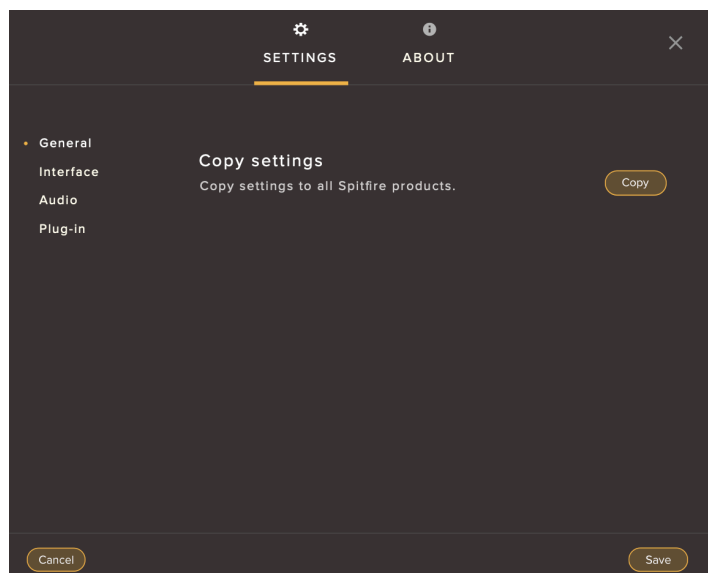
I. SOLO LATCH

With this enabled the solo buttons on the signal mixer will stack.

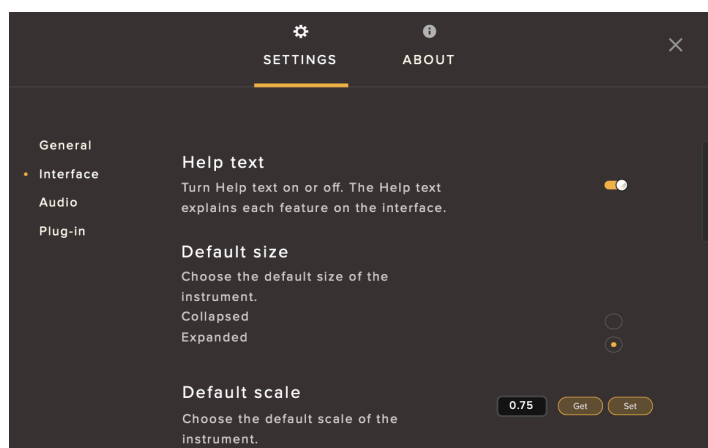When turned off (default) they cancel each other.

J. PURGE UNUSED

Shows the active status of ECO MODE.

13. PLUGIN SETTINGS

COPY SETTINGS

Common controller values will copy to other Spitfire plugins.

HELP TEXT

Turn this on to display parameter information in the bottom left corner of the plug in.

DEFAULT SIZE

Set whether the instrument opens up collapsed or expanded by default.

DEFAULT SCALE

How big the plugin UI is when opened. Press "get" to set the current scale or type a value before pressing "Set" and "Save"
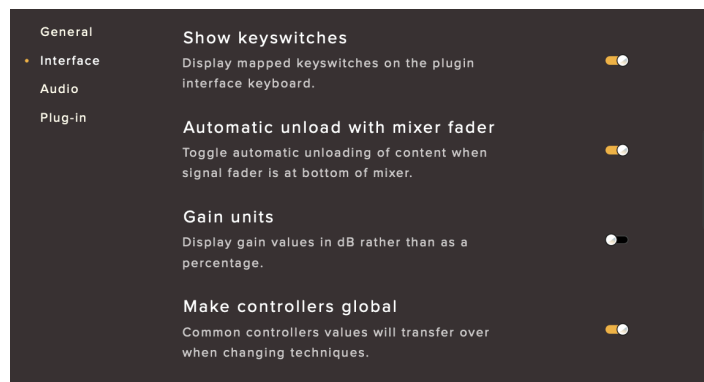
SHOW KEYSWITCHES

When this option is on, presets that have multiple techniques will show available keyswitches in red and the currently selected technique(s) in yellow.

UNLOAD WITH MIXER FADER

Toggle this to unload data from RAM when fader is pulled down to the bottom.

GAIN UNITS

Toggle this if you want your gain to be displayed in dB instead of as a percentage.

MAKE CONTROLS GLOBAL

Common Controller values will remain when switching techniques.
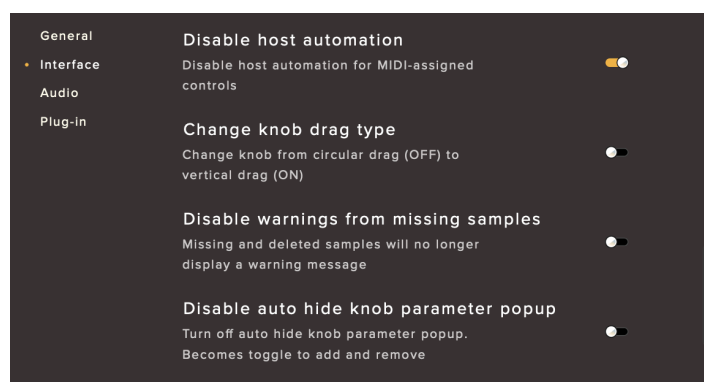
DISABLE HOST AUTOMATION

Turn this on to enable the Host Automation from the DAW.

CHANGE KNOB DRAG TYPE

Change the mouse behaviour when dragging the Knob control.

DISABLE WARNINGS FROM MISSING SAMPLES

Hide an error in the plugin top left corner which is visible when the library is missing its content.

DISABLE AUTO HIDE KNOB PARAMETER POPUP

When enabled, clicking the knob will always shows the fx controls menu.

ENABLE ECO LOAD

Eco-Load when enabled only loads the selected techniques into RAM.

When you key switch or select a new articulation, this will then also load into RAM.

Pressing the refresh icon in the top menu will reset the memory usage back to the curently select technique.
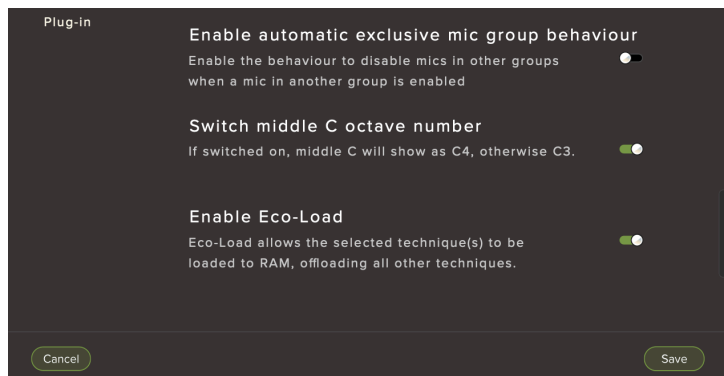
ENABLE AUTOMATIC EXCLUSIVE MIC GROUP BEHAVIOUR

Disable if you want mics to be un grouped together.

For example, when enabled, enabling the Ambient mic, will disable the Mix Signals

SWITCH MIDDLE C OCTAVE NUMBER

Change middle C value between C3 and C4. Useful for DAWs that use different MIDI standards and key switches are one octave out.
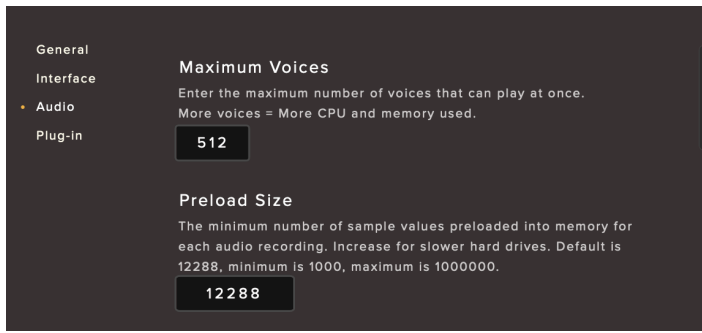
MAXIMUM VOICES

Enter the maximum number of voices that can play at once. More voices = More CPU and memory used.

PRELOAD SIZE

The minimum number of sample values preloaded into memory for each audio recording. Increase for slower hard drives. Default is 12288.
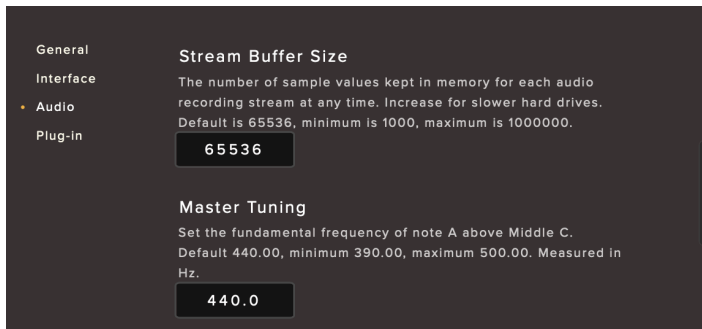
STREAM BUFFER SIZE

The number of sample values kept in memory for each audio recording stream. Increase for slower hard drives.

MASTER TUNING

Change the default tuning of the plugin. For example A = 440hz or A = 432 HZ.
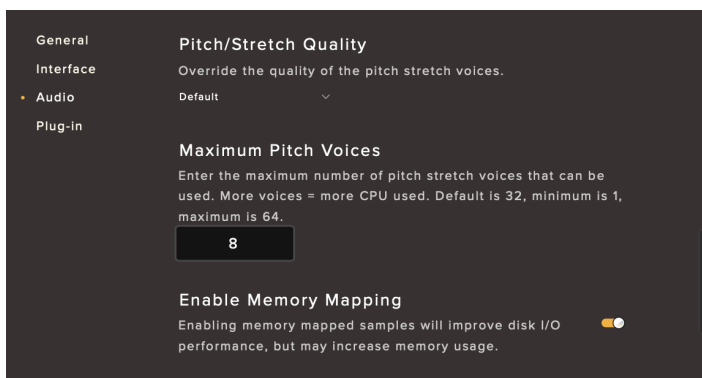
PITCH/STRETCH QUALITY

This option allows you to override the default pitch/time quality to improve performance or improve audio quality.

MAXIMUM PITCH VOICES

Limit the number of voices triggered at any one time. Lower values can aid CPU.

ENABLE MEMORY MAPPING

Turn off for windows machines for better performance.
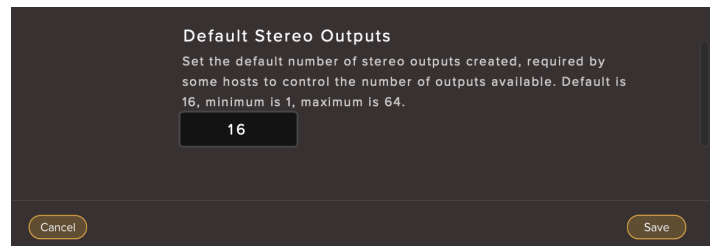
DEFAULT STEREO OUTPUTS

The default number of outputs for the Microphone routings.
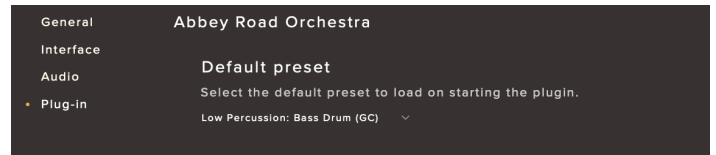
PLUGIN

Under this heading you can choose a default preset to load, click on the preset name and choose your preferred preset from the list.

MICROPHONE SIGNALS

ALL TIERS

MIX 1

A full-sounding room mix by Simon Rhodes, formed from Tree 1, Overheads, Outriggers 1, and a curated blend of spots.

PRO SIGNALS

MIX 2

A tighter mix by Simon Rhodes, formed from Tree 2, Mids and Outriggers 2 with a curated blend of spots.

CLOSE

Small diaphragm condenser mics placed on each desk and summed capturing a detailed and articulate close image.

CLOSE RIBBONS

A combination of ribbon mics placed on each desk capturing a warm and rounded close image

POP MAIN

A cardioid stereo valve mic placed above the section and panned centrally for a flexible image not restricted to the orchestral layout.

POP ROOM

Omnidirectional condenser mics placed either side of the section to add additional roominess and space to the Pop Main signal.

TREE 1

A decca tree formed of Abbey Road's finest trio of classic valve omnidirectional microphones creating a lush and full sound.

TREE 2

A tighter, closer decca tree formed from mics with a more directional pattern, suited to faster, more detailed material.

OUTRIGGERS 1

Used in conjunction with either tree to obtain a wider image. This pair utilises omnidirectional mics to reproduce the full width of Studio One.

OUTRIGGERS 2

Used together with either tree to obtain a wider image. This pair uses mics with a more directional pattern, pulling the edges of the room inwards.

MIDS

A pair of valve REDD mics placed between the conductor and the source which adds extra focus to the sound when combined with the Tree and Outriggers.

AMBIENTS

A pristine pair of small diaphragm omnidirectional microphones to the rear of the room for a natural ambience.

VINTAGE 1

A pair of original 1940s RM1B ribbon microphones placed in front of the conductor to create a vintage scoring stage sound.

VINTAGE 2

A pair of classic 44BX ribbon microphones placed by the conductor for an alternative vintage scoring stage sound

LEADER

A single microphone placed on the section leader, used to add additional focus above the full section if required.

SPILL

A summation of spot mics placed around the other sections. These capture the natural 'spill' from the source across the orchestra for added realism.

INSTRUMENTS / TECHNIQUES

PROFESSIONAL TIER

PERFORMANCE LEGATO EXTENDED

A hugely detailed and highly playable legato patch which reacts in realtime to playing speed.

This extended Pro version includes additional legato styles (portamento and detaché) plus marcato and soft entries for single notes - our most advanced legato ever.

LYRICAL LEGATO EXTENDED

A relaxed legato patch for slower moving melody lines.

This extended Pro version includes additional legato styles (portamento and detaché) plus marcato and soft entries for single notes.

LONGS EXTENDED

A polyphonic sustained longs patch - this extended Pro version features additional soft and marcato styles for note entries triggered by key velocity

LEGATO RUNS

A very agile legato patch specifically for very fast passages and flourishes up to a minor 3rd
NOTE: Legato intervals greater than a minor 3rd will not sound

LEGATO PORTAMENTO

A legato patch in which all the intervals are performed in a 'portamento' style with an intentional slide between notes

LEGATO DETACHE

A legato-style patch in which all the connecting notes have broad but separated bow strokes, ideal for strong and impactful statements

LEGATO SLURRED

A legato patch with slurred intervals performed with a 'moderate tempo' feel for sweeping melody lines

LEGATO ALLEGRO

A legato patch with slurred intervals performed with a sprightly 'uptempo' feel, ideal for quicker or arpeggiated ostinato material

ALL TIERS

PERFORMANCE LEGATO

A hugely detailed and highly playable legato patch which reacts in realtime to playing speed.

LYRICAL LEGATO

A relaxed legato patch for slower moving melody lines.

LONG

A polyphonic sustained longs patch for pads and chordal writing.

FLAUTANDO

A sustained note performed with a fast bow speed playing close to the fingerboard (sul tasto) creating a delicate and airy flute-like sound

TREMOLO

A technique performed with rapid continuous bowing, creating delicate flurrying textures at lower dynamics with increasing intensity at louder volumes

MEASURED TREMOLO

Tremolo performed with a specified number of repeated notes which can be sync'd to the host DAW's tempo inside the preset settings.

HARMONICS

Sustained notes produced from the overtones of the string (artificial harmonics) sounding higher than the fundamental to create glassy, suspenseful textures

TRILLS

Rapid alternating between two notes. Available as Major & Minor 2nds & 3rds

SPICATISSIMO

An extremely short note length performed by quickly bouncing the bow on the string - an agile technique for very fast, articulate material

SPICCATO

A very short and crisp note length performed by bouncing the bow on the string creating a sprightly 'all-purpose' short articulation

STACCATO

A short note length performed with the bow starting on the string, sounding clearly detached with a slight accent

MARCATO

A technique performed with a strong accented front to the note - presented as a longer note length than 'staccato' with the option of Timed Release triggers

PIZZICATO & BARTOK PIZZICATO

A short note produced by plucking the strings with the fingers.

'Bartok pizzicato is recorded at the very highest dynamic (velocity >121)

COL LEGNO

A technique performed by tapping the string with the back of the bow or a pencil, producing a light and woody sound

TECHNIQUE INSIGHTS - LEGATO COMPARISON / PROGRAMMING

The below table outlines the differences between 1st violins "core" and "professional" legato patches. Showing number of dynamics for interals and what interval type that patch contains.

	Tier	Dynamic Layers	Slurred Intervals	Fast Runs Intervals	Portamento Intervals	Detache Intervals	Staccato Fronts	Alt. Attacks
LEGATO TECHNIQUES								
Performance Legato (Extended)	PRO	Longs: 5 Intervals: 3	Y 2 types - triggered by speed and/or velocity)	Y	Y	Y	Y	Standard Soft Marcato
Performance Legato	CORE + PRO	Longs: 5 Intervals: Pro 3 Core 2	Y 2 types - triggered by speed and/or velocity	Y	N	N	Y	Standard
Lyrical Legato (Extended)	PRO	Longs: 5 Intervals: 3	Y 2 types - triggered by speed and/or velocity	N	Y	Y	N	Standard Soft Marcato
Lyrical Legato	CORE + PRO	Longs: 5 Intervals: Pro 3 Core 2	Y 2 types - triggered by speed and/or velocity	N	N	N	N	Standard
INDIVIDUAL LEGATO TECHNIQUES (PRO ONLY)								
Legato Runs	PRO	Longs: 5 Intervals: 3	-	Y	-	-	Y	Standard
Legato Portamento	PRO		-	-	Y	-	-	Standard
Legato Detaché	PRO		-	-	-	Y	-	Marcato
Legato Slurred	PRO		Y (1 type)	-	-	-	-	Standard
Legato Allegro	PRO		Y (1 type)	-	-	-	-	Standard

LEGATO INTERVALS AND PROGRAMMING INFORMATION

CORE AND PRO

Multiple speeds of slurred legato intervals have been recorded in the '**Performance'** and '**Lyrical**' legato techniques. The interval recalled is dependent on your playing speed, ensuring the appropriate interval is always recalled, reacting in realtime to your playing.

The mid-fast interval layer can be manually overridden if desired by changing the velocity of the destination note's midi data to any value between 21 - 29 (Extended version) or 0 - 29 (non-Extended version).

PRO

Intervals in the '**Extended**' legato techniques also include additional interval types - portamento (slide/glissando between notes) and detaché (separate bow strokes).

These interval types are triggered depending on the velocity of the destination note (how hard the new note is pressed).

Portamento: Velocity <2 0. Detaché: Velocity > 110

Portamento intervals can also be 'blended' with regular slurred intervals by varying the velocity within a set window (velocity range 9 - 20) - very useful to 'hide the slide' and give the effect of some players playing portamento and others playing straight slurred changes.

Detaché intervals can be 'blended' with regular slurred intervals by varying the velocity within a set window (velocity range 110 - 119). This can give the effect of 'softening' the bow change if desired.

The blend level can be adjusted depending on the velocity value within the blend window range. Normal 'slurred' interval transitions will be recalled outside of these velocity ranges (see table below).

Legato 'Extended' - Interval Velocity Triggers					
Velocity Value:	**0 - 8**	**9 - 20**	**21 - 109**	**110 - 119**	**120 - 127**
Performance / Lyrical Legato (Extended)	Portamento only	Portamento & slurred blend	**Slurred only** Note: 21 - 29 = Bypasses mid-fast intervals	Detaché & slurred blend	Detaché only

LEGATO ATTACKS AND PROGRAMMING INFORMATION (PRO ONLY)

Two additional styles of attack (note front) for single note longs have been recorded for the Pro version in the 'Extended' patches.

- 'Soft attacks' are short crescendos/swells into the long.
- 'Marcato' attacks have an accented entry.

Each type is triggered depending on the velocity of the destination note (how hard the new note is pressed).

Soft Attacks: Velocity <20.

Marcato Attacks: Velocity >110

'Standard' attacks are recalled outside of these velocity ranges.

TECHNIQUE INSIGHTS - LONGS & SHORTS

The below table outlines the differences between 1st violins "core" and "professional" non legato patches. Showing number of dynamics that each patch contains, and some additional information.

	Tier	Dynamic Layers	
LONG TECHNIQUES			
Long (Extended)	PRO	5	Includes 'alt attacks' : Standard, Soft, Marcato
Long	CORE + PRO	5	Standard attacks only
Tremolo	CORE + PRO	3	-
Measured Tremolo	CORE + PRO	3	150 BPM and 180 BPM (with tempo sync option)
Flautando	CORE + PRO	2	-
Harmonics	CORE + PRO	3	-
Trills	CORE + PRO	3	Minor and Major 2nd and 3rds
SHORT TECHNIQUES			
Spicatissimo	CORE + PRO	5	-
Spiccato	CORE + PRO	5	-
Staccato	CORE + PRO	5	-
Marcato	CORE + PRO	5	-
Pizzicato	CORE + PRO	6	Bartok pizzicato at top dynamic
Col Legno	CORE + PRO	4	-

CORE AND PRO

The release control (FX window) for the short techniques has been developed to enable precise control when playing complex material with multiple notes sounding one after another.

The Release control on short techniques controls the fade time of the short articulation.

Turning down = a quicker fade out.

Pressing the keyboard quickly or drawing very short MIDI data will enable this effect.

However, when a note is held (or MIDI note data is lengthened), the full fade out plays.

This is useful for cleaning up room 'build up'/muddiness in repeating patterns, but you still want to hear the full room ambience on the last note of the phrase.

Marcato technique: The Release controls feel of the 'timed releases' (when the full length of the note is not held). Turning the release down makes the timed releases more snappy. Holding the note for its full length will still play the full length.

APPENDIX A — FAQS AND TROUBLESHOOT

Q: WHAT ARE THE SYSTEM REQUIREMENTS?

MAC

Mac OS X 10.15 to OS12

Minimum: 2.8GHz i5 (quad-core), 8GB RAM

Recommended: 2.6GHz i7 (six-core) (2019), 16GB

RAM (2019), Apple Silicon

SSD drive for installs advised!

WINDOWS

Windows 10 and Windows 11 (latest Service Pack, 64-bit)

Minimum: Intel 2.8 GHz i5 (quad-core) or AMD Ryzen 5.

Recommended: Intel 2.6 GHz i7 (six-core) (2019) or AMD R7 2700.

SSD drive for installs advised!

Machine must be connected to the internet during install.

Q: I WANT TO RESET THE PLUGIN SETTINGS TO THE DEFAULT

You can delete the .settings file to reset the settings to default. This is located at:

Users/username/Music/Spitfire Audio - on a Mac

C:\Users\username\AppData\Roaming\ Spitfire Audio - on a PC.

Q: MY LIST OF PRESETS IS EMPTY, HOW DO I SOLVE THIS?

If you have moved your Abbey Road Orchestra Library folder, you can solve this problem by using the "Locate Library" feature in the Spitfire Audio App.

If this does not solve the problem, the library likely needs reauthorising, to do this, use the "repair" feature in the Spitfire Audio App.

Q: I SEE A RED EXCLAMATION MARK IN THE TOP LEFT OF ABBEY ROAD ORCHESTRA, WHAT DOES THIS MEAN?

This means that there is an error, you can click the exclamation mark to open a log with further details. It is likely that using the "Repair" and "Locate Library" features in the Spitfire Audio App will solve the problem but if not, contact our support team at spitfireaudio.com/support and attach the log.

Q: CAN I INSTALL ON MORE THAN ONE COMPUTER?

With our products you have two licenses. This means that you are allowed to download and install on two computers you own, say your main rig and your mobile rig. If you have purchased the library on a hard drive, you should copy the contents of the drive on to the destination machine before completing the download with the Spitfire App. If you downloaded Abbey Road Orchestra, you can copy the library folder over to the second machine and then use the "Repair" feature in the Spitfire Audio App.

Q: I CAN'T SEE THIS IN THE KONTAKT LIBRARIES PANE AND WHEN I TRY AND LOAD IT INTO KONTAKT IT SAYS NO LIBRARY FOUND

This library does not run in Kontakt, it is a standalone plug-in that you can run in your chosen DAW.

Q: HOW DO I AUTHORIZE ABBEY ROAD ORCHESTRA ON A MACHINE NOT CONNECTED TO THE INTERNET?

It not possible to authorise Abbey Road Orchestra on a machine not connected to the internet. Authorisation is done with the Spitfire Audio App and an internet connection is required.

Q: HOW CAN I REDOWNLOAD A PRODUCT?

This can easily be done via your Spitfire Audio App. To reset both your entire library download or the latest update;

• Open up the Spitfire Audio App and log in with your account email and password.

• Select the product artwork you wish to re-download

• On this page is a "cog wheel". Select this, choose "reset" from the menu. Then "Reset Entire Download" (for a full download) or (Latest Update) for the latest update.

This will reset your latest update ready for install again. You can repeat this process for any of the libraries you own.

Note that there is a limit to how many times you can reset your downloads in a certain time frame. If you do exceed your reset limit please get in touch.

Q: DIFFICULTIES IN DOWNLOADING / INSTALLING

Customers may find that they have some difficulties in the downloading process. If you find that you are having some trouble, please check the list below for possible causes:

• The formatting of your drive, if it is FAT32 this will cause errors, because there is a maximum file size with this format of 4GB and our download files will exceed this limit. To solve this problem, reformat your drive or use a different drive. We recommend NTFS on PC and Mac OS Extended on Mac. Other possible issues:

• Spitfire App freezes in the "Extracting" stage for hours. This may be because our libraries are often very large files, and this is the stage where the compressed files are extracted and placed in their final locations on the hard drive. There could be hundreds of GB of content to unpack, so it really can take hours. If you're unsure whether it has crashed or is extracting files, visit the installation folder you chose when you started the install. If everything is working normally you'll see various files appearing in the folder (or one of its sub-folders).

• If your download gets stuck and is continually cycling and not resuming, please get in touch with us, giving us as much detail as possible about your set up. It would be helpful if you can tell us your operating system, where you are downloading from (your country, and also whether you're at home or work), your ISP, and whether there are any proxy servers or firewalls between your computer and the internet.

Q: I HAVE FAST INTERNET, WHY IS MY DOWNLOAD SLOW?

We have no direct influence on your actual download speeds, our libraries are hosted on Amazon cloudfront servers which are normally very quick but it may well be that at certain times of the day when traffic is particularly busy, your ISP may throttle your connection speeds.

We would advise you to leave your download running overnight as speeds should ramp up at less busy times. Our Spitfire App downloader aims to use as much of the available bandwidth as possible to give you the quickest possible speeds, and may take several minutes to reach its peak.

Q: CAN I TRY BEFORE I BUY?

No - it is not currently possible to demo our products.

If you go to our Youtube channel you'll see many walkthroughs containing detailed info about all our products -- you can hear them being played in real time with no smoke and mirrors!

Q: MY LIBRARIES ARE NOT SHOWING UP IN MY SPITFIRE APP

A handful of customers may find that when they log into their Spitfire App, some of their previously purchased products do not show up in the 'Installed' section or in the 'Download Ready' section either. It may be that you have purchased these under another email address. Checking other possible email addresses for your previous purchases may help to find these missing products. If this is not the case, and these missing products were purchased a few years ago, please create a support ticket telling us your account email address, and any serial numbers you may have to go with these missing products. Our support team can also merge one or more accounts together if you'd like to consolidate all your purchases in one place.

The more information we have, the quicker we can get you back up and running!

Q: HOW DO I UPDATE MY PRODUCTS?

The main premise of downloading our products is that our Spitfire App downloads into the folder you choose, so it is important to choose the folder above where you want the download to go. The best file path for our products is something very simple, a long file path will cause errors as there is a character limit on how far the Spitfire App can read. We advise a file path of something along the lines of: Samples Drive > Spitfire Audio

When it comes to downloading / updating - if you have a folder called 'Spitfire Audio' always point the Spitfire App to the folder Spitfire Audio - never go into this folder and choose the actual library in question.

Q: HOW DO I REDOWNLOAD THE LATEST UPDATE?

With the continuous improvements to our Spitfire Audio App, we have incorporated the ability to reset your own downloads.
This can easily be done via your Spitfire Audio App.
Open up the Spitfire Audio App and log in with your account email and password.

• Select the product artwork you wish to re-download
• On this page is a "cog wheel". Select this, choose "reset" from the menu. Then "Reset Entire Download" (for a full download) or (Latest Update) for the latest update.

• This will reset your latest update ready for install again.

You can repeat this process for any other updates you wish.

If you do not see the option to reset your download in your Spitfire Audio App, we would advise to download the latest version of the Spitfire App from spitfireaudio.com/info/library-manager/.

Q: I'VE BEEN WAITING AGES FOR MY DOWNLOAD LINKS?

We run all our orders through a fraud checking process. The automatic fraud check takes 20 minutes (but can take up to an hour during a very busy period, eg. Black Friday) If your order gets caught at this stage, we run a manual order check, and this can delay the processing of your order for up to 24 hours.

You should however receive an order confirmation email IMMEDIATELY upon placing your order. This confirms that your order has successfully been logged in our system and that your payment was successfully taken. Please check your junk folders before contacting our support.

CAN I DOWNLOAD ON A PC, THEN TRANSFER TO A MAC OR VICE VERSA?

Yes, you can copy the library folder and plugin files over to the second machine and then use the "Repair" and "Locate Library" features in the Spitfire Audio App. Please note that although the majority of the download can be done on a separate machine, you will always need an internet connection to finish the authorisation process.

Q: HOW DO I DOWNLOAD PRODUCTS ON MAC OSX 10.9?

The version of the Spitfire App needed to install Abbey Road Orchestra only supports Mac OSX 10.15 to OS 12

Q: I HAVE FOUND A BUG

In some cases we can't squash them all and bugs shamefully make their way through. If you think you have found a bug, please contact us with all the relevant information;

• A description of the bug you have found

• A screencast (video) of the bug happening, or an audio example

• The exact preset name (or presets) in question and also the library giving us as much detail as possible will help us get to the bottom of the issue.

Q: WHAT IS YOUR REFUNDS / RETURNS POLICY?

If you have NOT completed the download / installation process, and bought within 14 days then we CAN refund / return your product, please contact support with your account email address and order number so we can handle this quickly. If you HAVE completed the installation process (even if you've not yet registered your serial number), please see our EULA in regards to why we do not accept refunds and returns. We can refund hard drive orders up until the point when the drive is dispatched from our office. This is usually 1-2 days after you order.

Q: I'VE FORGOTTEN MY PASSWORD?

If you have forgotten your password, please see this link spitfireaudio.com/my-account/login/, and click 'Forgotten Password'. If at some point in the past you asked us to merge two or more accounts but have since forgotten, you MAY find that the forgotten password isn't working for the email address you asked us to merge FROM. In this case, please contact support with your name, and any email addresses you think we might know about, and we'll work out what has happened.

APPENDIX B — DEFAULT CC MAPPINGS

Dynamics	1
Global Gain	7
Global Pan	10
Expression	11
Tightness	18
Reverb	19