

Vienna Instruments
Solo Download Instruments
Soprano Saxophone
Full Library

Contents

Introduction	3
'Full' Library	3
Data paths and Patch name conventions	3
Patch information	3
Interval performances	4
Matrix information	4
Preset information	5
Abbreviations	5
Articulations	6
The orchestra	7
Pitch	7
70 Soprano Sax	8
Patches	8
01 SHORT + LONG NOTES	8
02 DYNAMICS	9
03 FLATTER + TRILLS	10
10 PERF INTERVAL	11
11 PERF INTERVAL FAST	12
12 PERF TRILL	12
13 PERF REPETITION	12
14 FAST REPETITION	13
15 GRACE NOTES	13
16 SCALE RUNS	15
17 BENDS DOWN	15
98 RESOURCES	17
01 Perf Rep dyn	17
02 Long Notes - Single Layer	18
03 Perf Speed variation	18
99 RELEASE	18
Matrices	19
Matrix - LEVEL 1	19
Presets	26

Introduction

Welcome to the Vienna Symphonic Library, and thank you for purchasing one of our Solo Download Instruments! This document contains the mapping information for the "Full" version of the Vienna Instruments Soprano Saxophone. You will find in it a comprehensive survey of the articulations/Patches content, a listing of abbreviations, and the mapping list proper which gives details for every Patch, Matrix, and Preset.

"Full" Library

As opposed to the "Standard" versions of our Solo Download Instruments, the "Full" versions are identical with the corresponding instruments of a DVD Collection, i.e., they contain exactly the same samples, Patches, Matrices and Presets as the latter without any restrictions.

Installing a Download Instrument's Full version copies that instrument's sample content to a separate folder on your hard disk, so that it is not necessary to keep its Standard version installed – you may either delete it from your hard disk or at least remove it from the Directory Manager's list of activated instruments. In the Vienna Instruments Browser, the path of the Full version will be the same as that of the corresponding DVD Instrument, so that you can still see both versions as separate entries if you keep the Standard version installed.

Data paths and Patch name conventions

Since the Full versions of Download Instruments conform to the corresponding DVD Instruments, the data paths in your Vienna Instruments browser will be different than those of Standard Download or Special Edition Instruments. For instance, the path of the Standard Download Library of Flute 1 is "02D Flute-1", and all Patches can be found in this folder regardless of the articulation group they belong to. The Patch number is also marked with a "D" so that you immediately know it is a Download Instrument. In the Vienna Special Edition, Flute 1 is located in the folder "11 Flutes" together with the other flutes. Here, the Patch number is marked with an "S". The Full Download of Flute 1 is located in the subfolder "32 Flute" of the section "Woodwind Patches", which again contains subfolders grouping the Patches according to type, e.g., "01 SHORT + LONG NOTES", "02 DYNAMICS", etc. Patch names of the Full Download Library may differ from the corresponding ones of the Standard Download Library.

While Full Download Instruments contain all articulations of the corresponding DVD Instruments, their Patches are not divided into Standard and Extended content. The list of articulations further down which gives a summary of the Library's contents.

Special Patch configurations which sometimes are part of a Standard Download Instrument may be found in a reserved folder called "98 RESOURCES" in the Full Instrument. E.g., Flute 1 Standard contains the Patch "22D FL1 legato-sus"; in Flute 1 Full, this Patch is called "01 FL1_perf_leg_sustain" and is located in the Resources' subfolder "03 Perf Speed variation". (Apart from that, it also contains more samples.) Other articulations that can be found in the Resources folder are isolated dynamics repetitions in the subfolder "01 Perf Rep dyn" – e.g., the five repetitions of a legato crescendo, divided into separate Patches – and extracted velocity layers of sustained notes in the subfolder "02 Long Notes – Single Layer".

Patch information

The Patch information includes articulation type, playing range, number of samples used, RAM requirements, the number of velocity layers and alternations, AB switching possibilities, etc., as well as Patch specific information if necessary.

Where the type of articulation requires a special mapping (e.g., natural harmonics patches), the mapping layout will be shown in a detailed graphic.

Major and minor runs are always mapped to the keys of their scale, as are **arpeggios** to the keys of the broken chord played. **Grace notes** and **mordents** are mapped to their target note, i.e., the note the articulation ends with. Due to their nature, all **upward and downward articulations** (e.g., fixed glissandos and octave runs) have different mapping ranges – the upward movements ending the involved interval below the Patch's upper mapping range, while downward movements end the interval above its lower mapping range. (Please note that not all of the articulations mentioned above may be contained in your Collection.)

The Patch information also lists a Patch's velocity layers in detail. Velocity layer switches generally are the same for patches with the same number of layers but may occasionally be adapted to the instrument's requirements:

Layers	Layer 1	Layer 2	Layer 3	Layer 4	Layer 5	Layer 6
2	1-88	89-127				
3	1-55	56-88	89-127			
4	1-55	56-88	89-108	109-127		
5	1-24	25-55	56-88	89-108	109-127	
6	1-24	25-55	56-88	89-108	109-118	119-127

Interval performances

Interval performances are one of the outstanding features of our Vienna Instruments. They allow you to play authentic legato without any programming tricks. In our Silent Stage, all intervals from minor second to the octave were recorded for every instrument – up and down, of course; that makes 24 interval samples per note for one velocity alone! When you load an interval performance Patch and play a line on your keyboard, the software automatically joins the right samples with their interval transitions again, and you hear a perfect legato. By the way, this technique is not only used for legato but also for other articulations like the strings' portamento, marcato, or détaché and spiccato articulations.

Interval performances also contain at least two legato repetitions for every note which alternate automatically whenever you strike a key more than once. There also are preconfigured thresholds for legato and repetition notes: The legato threshold – i.e., the maximum break between notes where legato is played – is 50 ms. Otherwise, a sustained starting note will sound so that you can easily start a new phrase without leaving the legato Patch. For note repetitions, the threshold is 200 ms: a break up to that duration will yield a legato repetition; if the break is longer, a new starting note. But of course, it's mingling legato with other articulations which makes a piece really come alive.

Due to their nature, all interval performances are monophonic; otherwise, the software would have to be able to decide which source note belongs to which target note. To circumvent this, you can open two VI instances of the same instrument on separate MIDI tracks without any additional strain on your RAM.

Note: the Vienna Instruments PRO player software also allows you to play polyphonic Interval performances.

Another variety of interval performance you will come across is the "perf-leg_sus" Patch. These Patches also contain normal legatos, only the target note of each interval is crossfaded into a looped sustain. They can be used for slower pieces with long notes; however, you should use them with circumspection, since plain legatos sound more lively because they not only render the interval transitions as they were played, but also have different target samples for every interval instead of the same sustained note: When you play, e.g., c–e and then c#–e with normal legato, you will get two different "e" tones; with sus-legato you won't.

Matrix information

Each Matrix listing contains information regarding the Patches used for the Matrix, the number of horizontal and vertical dimensions, and switching properties. A mapping table shows the Cell positions for each of the Matrix' Patches.

A/B switching normally is set to A0 for upward/crescendo, and B0 for downward/diminuendo. However, some bass instruments go below that range so that the A/B keys have to be adapted accordingly. For example, the A/B switches for double bass are A0 and A#0 because the instrument's lower range extends to B0.

In order to facilitate working with **MIDI controller switches** like the Modulation wheel, the switching positions are not distributed equally across the controller range if they control more than two Matrix rows or columns; generally, the switching range will be narrower at the extreme positions because they are easy to set, and wider in the middle where it is harder to find the desired setting.

Speed controller switches naturally are adjusted to the Patches involved, and have been tested carefully as to their playability. However, if you find that they do not fit your playing, or want to try out other settings, you can change this as well as any other controller's settings at the **Control edit** page, and save the result in your Custom Matrix folder.

Preset information

The Preset information lists the Matrices used in the Preset as well as its keyswitches. All other information can be gathered from the Matrix and Patch listings, so there's not really much to say here. Please note that the Matrices of a Preset can also be switched with MIDI Program Changes (VI: 101–112; VI PRO: 1–127) instead of keyboard notes, and if you like to keep your keyboard free for playing instead of switching, you can disable Preset keyswitching and only use MIDI Program Changes. Vienna Instruments PRO also allows you to define a MIDI Control for Preset keyswitching.

Abbreviations

Here's a list of abbreviations in Patch names, which will help you to determine a Patch's content even without the help of the Vienna Instruments browser. Please note that not all of the abbreviations may occur in the manual on hand.

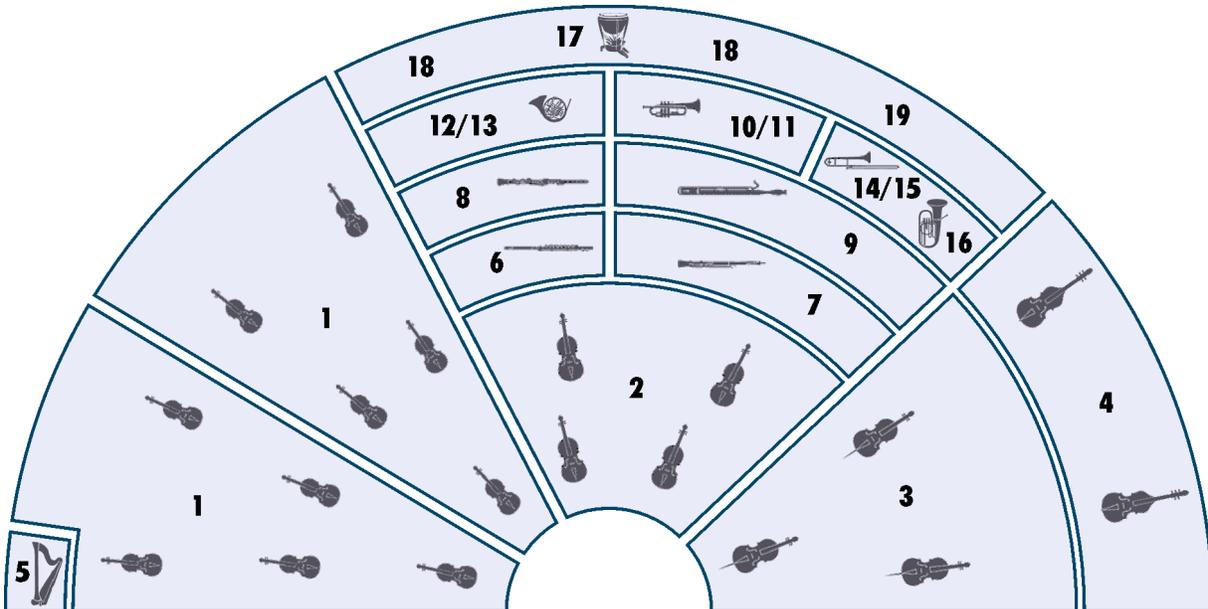
Abbreviation	Meaning	Abbreviation	Meaning
150, 160, ...	150, 160, ... BPM (beats per minute)	lo	long
1s, 2s, ...	tone length 1 sec., 2 sec., ...	marc	marcato
acc	accelerando	me	medium
all	combination of all Patches of a category	mi	minor
cre	crescendo	noVib	without vibrato
dim	diminuendo	perf-rep	repetition performance
dyn	dynamics (crescendo and diminuendo)	por	portato
dyn5, dyn9	dynamics, 5/9 repetitions	run	octave run
fa	fast	sl	slow
fast-rep	fast repetitions	sta, stac	staccato
flutter	flutter tonguing	str	strong
fx	effect sound	sus	sustained
gliss	glissando	Vib	with (medium) vibrato
leg	legato	Vib-progr	progressive vibrato
		XF	cell crossfade Matrix

Articulations

70 Soprano Sax	
01 SHORT + LONG NOTES	Staccato Portato short and medium Portato long marcato Slap normal and muted, key noise Sustained with normal, progressive, and without vibrato Sustained, "dirty" Short and long bends
02 DYNAMICS	Medium dynamics with vibrato, 2 and 5 sec. Strong dynamics with vibrato, 3 and 5 sec. Medium dynamics without vibrato, 1.5 and 2 sec. Crescendo-diminuendo with vibrato, 3 and 5 sec. Fortepiano, sforzato, sforzissimo with vibrato
03 FLATTER + TRILLS	Flutter tonguing, crescendo Trills normal and accelerando, minor and major 2nd Dynamics for all trills
10 PERF INTERVAL	Legato with vibrato Legato without vibrato, sustain crossfading Grace notes, minor 2nd to octave Portamento Glissandos, up, minor 2nd to octave Marcato
11 PERF INTERVAL FAST	Legato Marcato
12 PERF TRILL	Trills, legato, minor 2nd to major 3rd
13 PERF REPETITION	Legato slow and fast Portato slow and fast Staccato Dynamics for all repetitions
14 FAST REPETITION	Staccato, 9 repetitions, 140 to 180 BPM Normal and dynamics
15 GRACE NOTES	Grace notes Minor 2nd to octave Up and down Samples are mapped to the target note
16 SCALE RUNS	Octave runs Legato, chromatic and whole tone Up and down
17 BENDS DOWN	Sustained with normal, progressive, and without vibrato Sustained, "dirty" Legato with vibrato, grace notes, portamento, glissando up, marcato interval performances Performance trills

The orchestra

There are several ways of setting up an orchestra, depending on the era of the piece played, the type of the piece and the instruments it requires, and even on the preference of the conductor. The figure below shows one of the more common setups, which can be taken as a guideline for mixing a composition, properly positioning the instruments in the stereo field and adding reverb according to the size of the concert hall you want your piece to be played in.



- | | |
|---------------------------|---------------------------------|
| 1 1st and 2nd violin | 9 Bassoon, contrabassoon |
| 2 Viola | 10/11 Trumpet |
| 3 Cello | 12/13 Horn |
| 4 Double bass | 14/15 Trombone |
| 5 Harp | 16 Tuba |
| 6 Concert flute, piccolo | 17 Timpani |
| 7 Oboe, English horn | 18 Drums, cymbals |
| 8 Clarinet, bass clarinet | 19 other percussion instruments |

Pitch

For designating pitch, the Vienna Symphonic Library uses International Pitch Notation (IPN), which was agreed upon internationally under the auspices of the Acoustical Society of America. In this system the international standard of A=440 Hz is called A4 and middle C is C4. All pitches are written as capital letters, their respective octave being indicated by a number next to it. The lowest C on the piano is C1 (the A below that is A0), etc.

You can tune your Vienna Instruments to other players, or adjust it to tunings of earlier musical periods by setting the Perform page's Master Tune option within a range of 420 to 460 Hz.

70 Soprano Sax

Patches

01 SHORT + LONG NOTES

Range: G3–E6



01 SX-So_staccato

Samples: 330

RAM: 20 MB

Staccato

Velocity mapping:

0–28 pp, 29–55 mp, 56–88 mf, 89–108 f, 109–127 ff

4 Alternations

02 SX-So_portato_short

Samples: 330

RAM: 20 MB

Portato, short

Velocity mapping:

0–28 pp, 29–55 mp, 56–88 mf, 89–108 f, 109–127 ff

4 Alternations

03 SX-So_portato_medium

Samples: 330

RAM: 20 MB

Portato, medium

Velocity mapping:

0–28 pp, 29–55 mp, 56–88 mf, 89–108 f, 109–127 ff

4 Alternations

04 SX-So_portato_long-marc

Samples: 49

RAM: 3 MB

Portato, long, marcato

1 velocity layer

Release samples

05 SX-So_slap

Range: G3–C5

Samples: 38

RAM: 2 MB

Slap

2 velocity layers

2 Alternations

06 SX-So_slap_mute

Range: G3–C5

Samples: 38

RAM: 2 MB

Slap, muted

2 velocity layers

2 Alternations

07 SX-So_key-noise

Samples: 22

RAM: 1 MB

Key noise

The 11 keys are repeated over the range of the Patch (G – 1st key, F# – 11th key)

1 velocity layer

2 Alternations

11 SX-So_sus_Vib

Samples: 264

RAM: 16 MB

Sustained, with vibrato

4 velocity layers

Release samples

12 SX-So_sus_Vib-progr Sustained, progressive vibrato 3 velocity layers Release samples		Samples: 150	RAM: 9 MB
13 SX-So_sus_noVib Sustained, without vibrato 4 velocity layers Release samples		Samples: 200	RAM: 12 MB
14 SX-So_sus_dirty Sustained, "dirty" 2 velocity layers Release samples	Range: G3–C6	Samples: 124	RAM: 7 MB
21 SX-So_bend Short and long downward bends The longer bends have a glissando-like quality 2 velocity layers AB switch: bend short/long	Range: G3–F6	Samples: 64	RAM: 4 MB
02 DYNAMICS	Range: G3–E6		
01 SX-So_dyn-me_Vib_2s Medium crescendo and diminuendo with vibrato, 2 sec. 2 velocity layers AB switch: crescendo/diminuendo		Samples: 68	RAM: 4 MB
02 SX-So_dyn-me_Vib_5s Medium crescendo and diminuendo with vibrato, 5 sec. 2 velocity layers AB switch: crescendo/diminuendo		Samples: 68	RAM: 4 MB
11 SX-So_dyn-str_Vib_3s Strong crescendo and diminuendo with vibrato, 3 sec. 1 velocity layer AB switch: crescendo/diminuendo		Samples: 66	RAM: 4 MB
12 SX-So_dyn-str_Vib_5s Strong crescendo and diminuendo with vibrato, 5 sec. 1 velocity layer AB switch: crescendo/diminuendo		Samples: 66	RAM: 4 MB
21 SX-So_dyn-me_noVib_1'5s Medium crescendo and diminuendo without vibrato, 1.5 sec. 2 velocity layers AB switch: crescendo/diminuendo		Samples: 132	RAM: 8 MB
22 SX-So_dyn-me_noVib_2s Medium crescendo and diminuendo without vibrato, 2 sec. 2 velocity layers AB switch: crescendo/diminuendo		Samples: 132	RAM: 8 MB

31 SX-So_pfp_Vib_3s Crescendo-diminuendo with vibrato, 3 sec. 2 velocity layers	Samples: 34	RAM: 2 MB
32 SX-So_pfp_Vib_5s Crescendo-diminuendo with vibrato, 5 sec. 2 velocity layers	Samples: 34	RAM: 2 MB
41 SX-So_fp_Vib Fortepiano, with vibrato 1 velocity layer 2 Alternations	Samples: 33	RAM: 2 MB
42 SX-So_sfz_Vib Sforzato, with vibrato 1 velocity layer 2 Alternations	Samples: 33	RAM: 2 MB
43 SX-So_sffz_Vib Sforzatissimo, with vibrato 1 velocity layer 2 Alternations	Samples: 33	RAM: 2 MB

03 FLATTER + TRILLS



01 SX-So_flutter_cre Flutter tonguing, crescendo 1 velocity layer	Range: G3-E6	Samples: 33	RAM: 2 MB
11 SX-So_trill_1 Trills, minor 2nd 2 velocity layers Release samples	Range: G3-D6	Samples: 62	RAM: 3 MB
12 SX-So_trill_2 Trills, major 2nd 2 velocity layers Release samples	Range: G3-D6	Samples: 62	RAM: 3 MB
13 SX-So_trill_1_dyn Trills, crescendo and diminuendo, minor 2nd 1 velocity layer AB switch: crescendo/diminuendo	Range: G3-C#6	Samples: 30	RAM: 1 MB
14 SX-So_trill_2_dyn Trills, crescendo and diminuendo, major 2nd 1 velocity layer AB switch: crescendo/diminuendo	Range: G3-C#6	Samples: 30	RAM: 1 MB

15 SX-So_trill_1_acc Trills accelerando, minor 2nd 2 velocity layers Release samples	Range: G3–D#6	Samples: 60	RAM: 3 MB
16 SX-So_trill_2_acc Trills accelerando, major 2nd 2 velocity layers Release samples	Range: G3–D6	Samples: 60	RAM: 3 MB
17 SX-So_trill_1_acc-dyn Trills accelerando, crescendo and diminuendo, minor 2nd 1 velocity layer AB switch: crescendo/diminuendo	Range: G3–D#6	Samples: 30	RAM: 1 MB
18 SX-So_trill_2_acc-dyn Trills accelerando, crescendo and diminuendo, major 2nd 1 velocity layer AB switch: crescendo/diminuendo	Range: G3–D6	Samples: 30	RAM: 1 MB
10 PERF INTERVAL	Range: G3–D6		
01 SX-So_perf-legato_Vib Legato, with vibrato 3 velocity layers Release samples		Samples: 1185	RAM: 74 MB
02 SX-So_perf-legato_noVib_sus Legato, without vibrato Sustain crossfading 3 velocity layers Release samples		Samples: 1063	RAM: 66 MB
03 SX-So_perf-legato_grace Grace notes, legato, minor 2nd to octave 3 velocity layers Release samples		Samples: 1191	RAM: 74 MB
04 SX-So_perf-portamento Portamento 1 velocity layer Release samples		Samples: 395	RAM: 24 MB
05 SX-So_perf-legato_gliss-up Glissandos, upward, minor 2nd to octave 2 velocity layers Release samples		Samples: 545	RAM: 34 MB
06 SX-So_perf-marcato Marcato 2 velocity layers Release samples		Samples: 790	RAM: 49 MB

11 PERF INTERVAL FAST**Range: G3–D6****01 SX-So_perf-legato_fa****Samples: 881****RAM: 55 MB**

Interval performances: Legato, fast
 2 velocity layers
 Release samples

02 SX-So_perf-marcato_fa**Samples: 850****RAM: 53 MB**

Interval performances: Marcato, fast
 2 velocity layers
 Release samples

12 PERF TRILL**Range: G3–D6****01 SX-So_perf-trill****Samples: 1936****RAM: 121 MB**

Performance trills, legato, minor 2nd to major 3rd
 2 velocity layers
 Release samples

13 PERF REPETITION**Range: G3–D6****01 SX-So_perf-rep_leg-sl****Range: G3–E6****Samples: 255****RAM: 15 MB**

Repetition performances: Legato, slow
 3 velocity layers

02 SX-So_perf-rep_leg-fa**Samples: 225****RAM: 14 MB**

Repetition performances: Legato, fast
 3 velocity layers

03 SX-So_perf-rep_por-sl**Samples: 225****RAM: 14 MB**

Repetition performances: Portato, slow
 3 velocity layers

04 SX-So_perf-rep_por-fa**Samples: 405****RAM: 25 MB**

Repetition performances: Portato, fast
 3 velocity layers

05 SX-So_perf-rep_sta**Samples: 414****RAM: 25 MB**

Repetition performances: Staccato
 3 velocity layers

21 SX-So_perf-rep_dyn5_leg-sl**Range: G3–E6****Samples: 170****RAM: 10 MB**

Repetition performances: Legato dynamics, slow, 5 repetitions
 1 velocity layer
 AB switch: crescendo/diminuendo

22 SX-So_perf-rep_dyn5_leg-fa	Samples: 150	RAM: 9 MB
Repetition performances: Legato dynamics, fast, 5 repetitions 1 velocity layer AB switch: crescendo/diminuendo		
23 SX-So_perf-rep_dyn5_por-sl	Samples: 150	RAM: 9 MB
Repetition performances: Portato dynamics, slow, 5 repetitions 1 velocity layer AB switch: crescendo/diminuendo		
24 SX-So_perf-rep_dyn9_por-fa	Samples: 270	RAM: 16 MB
Repetition performances: Portato dynamics, fast, 9 repetitions 1 velocity layer AB switch: crescendo/diminuendo		
25 SX-So_perf-rep_dyn9_sta	Samples: 270	RAM: 16 MB
Repetition performances: Staccato dynamics, 9 repetitions 1 velocity layer AB switch: crescendo/diminuendo		

14 FAST REPETITION

Range: G3–C#6



01 SX-So_fast-rep_140 (150/160/170/180)	Samples: 90	RAM: 5 MB
Fast repetitions Staccato, 9 repetitions, 140/150/160/170/180 BPM 3 velocity layers Release samples		
11 SX-So_fast-rep_140_dyn (150/160/170/180)	Samples: 30	RAM: 1 MB
Fast repetitions Staccato, 9 repetitions, 140/150/160/170/180 BPM, crescendo and diminuendo 1 velocity layer AB switch: crescendo/diminuendo		

15 GRACE NOTES

The samples are mapped to their target notes.



01 SX-So_grace-1	Range: G3–D#6	Samples: 190	RAM: 11 MB
Grace notes, minor 2nd 3 velocity layers Release samples AB switch: up/down			
02 SX-So_grace-2	Range: G3–E6	Samples: 191	RAM: 11 MB
Grace notes, major 2nd 3 velocity layers Release samples AB switch: up/down			

03 SX-So_grace-3 Grace notes, minor 3rd 3 velocity layers Release samples AB switch: up/down	Range: G3–D#6	Samples: 185	RAM: 11 MB
04 SX-So_grace-4 Grace notes, major 3rd 3 velocity layers Release samples AB switch: up/down	Range: G3–E6	Samples: 185	RAM: 11 MB
05 SX-So_grace-5 Grace notes, 4th 3 velocity layers Release samples AB switch: up/down	Range: G3–D#6	Samples: 179	RAM: 11 MB
06 SX-So_grace-6 Grace notes, diminished 5th 3 velocity layers Release samples AB switch: up/down	Range: G3–E6	Samples: 179	RAM: 11 MB
07 SX-So_grace-7 Grace notes, 5th 3 velocity layers Release samples AB switch: up/down	Range: G3–D#6	Samples: 173	RAM: 10 MB
08 SX-So_grace-8 Grace notes, minor 6th 3 velocity layers Release samples AB switch: up/down	Range: G3–E6	Samples: 173	RAM: 10 MB
09 SX-So_grace-9 Grace notes, major 6th 3 velocity layers Release samples AB switch: up/down	Range: G3–D#6	Samples: 167	RAM: 10 MB
10 SX-So_grace-10 Grace notes, minor 7th 3 velocity layers Release samples AB switch: up/down	Range: G3–E6	Samples: 167	RAM: 10 MB
11 SX-So_grace-11 Grace notes, major 7th 3 velocity layers Release samples AB switch: up/down	Range: G3–D#6	Samples: 161	RAM: 10 MB

12 SX-So_grace-12	Range: G3-E6	Samples: 161	RAM: 10 MB
Grace notes, octave 3 velocity layers Release samples AB switch: up/down			
16 SCALE RUNS	Range: G3-D6		
01 SX-So_run-leg_chromatic		Samples: 40	RAM: 2 MB
Octave runs, legato Chromatic 2 velocity layers AB switch: up/down			
02 SX-So_run-leg_whole		Samples: 40	RAM: 2 MB
Octave runs, legato Whole tone 2 velocity layers AB switch: up/down			
17 BENDS DOWN			
01 SX-So_sus_Vib_bend	Range: G3-E6	Samples: 163	RAM: 10 MB
Single notes: Sustained, vibrato, with bend release 3 velocity layers Release samples AB switch: bend short/long			
02 SX-So_sus_Vib-progr_bend	Range: G3-E6	Samples: 115	RAM: 7 MB
Single notes: Sustained, progressive vibrato, with bend release 3 velocity layers Release samples AB switch: bend short/long			
03 SX-So_sus_noVib_bend	Range: G3-E6	Samples: 115	RAM: 7 MB
Single notes: Sustained, no vibrato, with bend release 3 velocity layers Release samples AB switch: bend short/long			
04 SX-So_sus_dirty_bend	Range: G3-C6	Samples: 122	RAM: 7 MB
Single notes: Sustained, "dirty", with bend release 2 velocity layers Release samples AB switch: bend short/long			

11 SX-So_perf-legato_Vib_bend	Range: G3-D6	Samples: 1150	RAM: 71 MB
Interval performances: Legato, with vibrato, with bend release 3 velocity layers Release samples AB switch: bend short/long			
12 SX-So_perf-legato_grace_bend	Range: G3-D6	Samples: 1156	RAM: 72 MB
Interval performances: Grace notes, legato, minor 2nd to octave, with bend release 3 velocity layers Release samples AB switch: bend short/long			
13 SX-So_perf-portamento_bend	Range: G3-D6	Samples: 426	RAM: 26 MB
Interval performances: Portamento, with bend release 1 velocity layer Release samples AB switch: bend short/long			
14 SX-So_perf-legato_gliss-up_bend	Range: G3-D6	Samples: 543	RAM: 33 MB
Interval performances: Glissandos, upward, minor 2nd to octave, with bend release 2 velocity layers Release samples AB switch: bend short/long			
15 SX-So_perf-marcato_bend	Range: G3-D6	Samples: 788	RAM: 49 MB
Interval performances: Marcato, with bend release 2 velocity layers Release samples AB switch: bend short/long			
21 SX-So_perf-trill_bend	Range: G3-D6	Samples: 1934	RAM: 120 MB
Multi interval performances: Performance trills, legato, minor 2nd to major 3rd, with bend release 2 velocity layers Release samples AB switch: bend short/long			

98 RESOURCES

Isolated dynamics repetitions: Legato slow and fast, portato, staccato
 Single layer long notes
 Legato with sustain crossfading

**01 Perf Rep dyn**

01 SX-So_rep_cre5_leg-sl-1 (2/3/4/5) Extracted repetition Legato slow, crescendo, 1st to 5th note 1 velocity layer	Range: G3–E6	Samples: 17	RAM: 1 MB
01 SX-So_rep_dim5_leg-sl-1 (2/3/4/5) Extracted repetition Legato slow, diminuendo, 1st to 5th note 1 velocity layer	Range: G3–E6	Samples: 17	RAM: 1 MB
02 SX-So_rep_cre5_leg-fa-1 (2/3/4/5) Extracted repetition Legato fast, crescendo, 1st to 5th note 1 velocity layer	Range: G3–D6	Samples: 15	RAM: 1 MB
02 SX-So_rep_dim5_leg-fa-1 (2/3/4/5) Extracted repetition Legato fast, diminuendo, 1st to 5th note 1 velocity layer	Range: G3–D6	Samples: 15	RAM: 1 MB
03 SX-So_rep_cre9_por-1 (2/3/4/5/6/7/8/9) Extracted repetition Portato, crescendo, 1st to 9th note 1 velocity layer	Range: G3–D6	Samples: 15	RAM: 1 MB
03 SX-So_rep_dim9_por-1 (2/3/4/5/6/7/8/9) Extracted repetition Portato, diminuendo, 1st to 9th note 1 velocity layer	Range: G3–D6	Samples: 15	RAM: 1 MB
04 SX-So_rep_cre9_sta-1 (2/3/4/5/6/7/8/9) Extracted repetition Staccato, crescendo, 1st to 9th note 1 velocity layer	Range: G3–D6	Samples: 15	RAM: 1 MB
04 SX-So_rep_dim9_sta-1 (2/3/4/5/6/7/8/9) Extracted repetition Staccato, diminuendo, 1st to 9th note 1 velocity layer	Range: G3–D6	Samples: 15	RAM: 1 MB

02 Long Notes - Single Layer**Range: G3–E6****01 SX-So_sus_p**

Sustained, piano
 1 velocity layer
 Release samples

Samples: 66**RAM: 4 MB****02 SX-So_sus_mp**

Sustained, mezzopiano
 1 velocity layer
 Release samples

Samples: 66**RAM: 4 MB****03 SX-So_sus_mf**

Sustained, mezzoforte
 1 velocity layer
 Release samples

Samples: 66**RAM: 4 MB****04 SX-So_sus_f**

Sustained, forte
 1 velocity layer
 Release samples

Samples: 66**RAM: 4 MB****03 Perf Speed variation****01 SX-So_perf-leg_sustain****Range: G3–D6**

Interval performances: Legato with sustain crossfading
 3 velocity layers
 Release samples

Samples: 1278**RAM: 79 MB****99 RELEASE**

This section contains release samples for various patches of the other sections. Please do not try to load them into a Vienna Instruments matrix – you will not be able to hear anything when you try to play them.

Matrices

Matrix - LEVEL 1

L1 SX-So Articulation Combi

Samples: 1283 RAM: 80 MB

Single notes

Staccato, portato short, sustained with and without vibrato normal and with bends, crescendo-diminuendo with vibrato 3 and 5 sec., fortissimo and sforzato with vibrato, trills half and whole tone

Matrix switches: Horizontal: Keyswitches, C1–F1 Vertical: Modwheel, 2 zones

	C1	C#1	D1	D#1	E1	F1
V1	stac	sus vib.	sus vib. bend	pfp vib. 3s.	fp vib.	trill half
V2	port. short	sus no vib.	sus no vib. bend	pfp vib. 5s.	sfz vib.	trill whole

L1 SX-So Perf-Legato Speed

Samples: 1522 RAM: 95 MB

Performance legato with vibrato and sustain crossfading, with vibrato, and fast

Performance legato with vibrato and bend release

Speed controller

Matrix switches: Horizontal: Speed, 3 zones Vertical: Modwheel, 2 zones

	H1	H2	H3
legato normal	vib. sustain XF	vib. normal	fast
legato bend	%	%	%

L1 SX-So Perf-Repetitions Combi

Samples: 1074 RAM: 67 MB

Repetition performances

Legato slow

Portato fast

Staccato

Matrix switches: Vertical: Modwheel, 3 zones

	repetitions
V1	legato slow
V2	portato fast
V3	staccato

Matrix - LEVEL 2 A - Advanced

O1 SX-So Perf-Universal

Samples: 2567 RAM: 160 MB

Interval performances

Legato vibrato with sustain crossfading, normal, and fast

Performance glissando, up

Marcato normal and fast

Speed controller

Matrix switches: Horizontal: Speed, 3 zones Vertical: Modwheel, 3 zones

	H1	H2	H3
legato	sustain XF	normal	fast
glissando up	%	%	%
marcato	normal	normal	fast

02 SX-So Perf-Trill Speed**Samples: 2925 RAM: 182 MB**

Multi interval performances

Legato with vibrato, trills

Legato vibrato with bend release, trills with bend release

Glissandos, trills

Speed controller

Matrix switches: Horizontal: Speed, 2 zones Vertical: Modwheel, 3 zones

	H1	H2
V1	legato vib.	trills
V2	legato vib. bends	trill bends
V3	glissando	trills

03 SX-So Short+Long notes - All**Samples: 1431 RAM: 89 MB**

Single notes

Staccato, portato short, portato medium

Sustained with normal and progressive vibrato, 'dirty', and without vibrato

Matrix switches: Horizontal: Keyswitches, C1–D#1 Vertical: Modwheel, 4 zones

	C1	C#1	D1	D#1
V1	staccato	port. short	port. medium	sus. vibrato
V2	%	%	%	sus. prog. vib.
V3	%	%	%	sus. dirty
V4	%	%	%	sus. no vib.

Matrix - LEVEL 2 B - Standard**11 SX-So Perf-Legato Speed****Samples: 1458 RAM: 91 MB**

Performance legato with vibrato and sustain crossfading, with vibrato, and fast

Speed controller

Matrix switches: Horizontal: Speed, 3 zones

	H1	H2	H3
legato	vib. sustain XF	vib. normal	fast

12 SX-So Perf-Marcato Speed**Samples: 970 RAM: 60 MB**

Interval performances^mMarcato normal and fast

Speed controller

Matrix switches: Horizontal: Speed, 2 zones

	H1	H2
Marcato	normal	fast

13 SX-So Perf-Glissando Speed**Samples: 1601 RAM: 100 MB**

Performance glissando, legato with vibrato, and legato fast

Speed controller

Matrix switches: Horizontal: Speed, 3 zones

	H1	H2	H3
V1	glissando	legato vibrato	legato fast

14 SX-So Short notes - All**Samples: 1115 RAM: 69 MB**

Single notes

Staccato, portato short, portato medium, portato long marcato, slap normal and muted

Matrix switches: Horizontal: Keyswitches, C1–F1

	C1	C#1	D1	D#1	E1	F1
V1	staccato	port. short	port.med.	port.long marc.	slap normal	slap muted

15 SX-So Dynamics**Samples: 666 RAM: 41 MB**

Dynamics

Medium crescendo and diminuendo with vibrato, 2 and 5 sec.

Strong crescendo and diminuendo with vibrato, 3 and 5 sec.

Medium crescendo and diminuendo without vibrato, 1.5 and 2 sec.

Crescendo-diminuendo with vibrato, 3 and 5 sec.

Fortepiano and sforzato with vibrato

Matrix switches: Horizontal: Keyswitches, C1–C#1 Vertical: Modwheel, 5 zones

	C1	C#1
medium dyn. vib.	2 sec.	5 sec.
strong dyn. vib.	3 sec.	5 sec.
med.dyn. no vib.	1.5 sec.	2 sec.
ppf vib.	3 sec.	5 sec.
fp/sfz vib.	fp	sfz

16 SX-So Trills - normal**Samples: 153 RAM: 9 MB**

Trills

Normal and dynamics

Half and whole tone

Matrix switches: Horizontal: Keyswitches, C1–C#1 Vertical: Modwheel, 2 zones

	C1	C#1
half tone	normal	dynamics
whole tone	normal	dynamics

17 SX-So Trills - accelerando**Samples: 180 RAM: 11 MB**

Trills accelerando

Normal and dynamics

Half and whole tone

Matrix switches: Horizontal: Keyswitches, C1–C#1 Vertical: Modwheel, 2 zones

	C1	C#1
half tone	normal	dynamics
whole tone	normal	dynamics

18 SX-So Trills - All**Samples: 333 RAM: 20 MB**

Trills constant speed and accelerando

Normal and dynamics

Half and whole tone

Matrix switches: Horizontal: Keyswitches, C1–D#1 Vertical: Modwheel, 2 zones

	C1	C#1	D1	D#1
half tone	normal	dynamics	accelerando	acc. dynamics
whole tone	normal	dynamics	accelerando	acc. dynamics

19 SX-So Bends - sus**Samples: 505 RAM: 31 MB**

Sustained notes with vibrato, progressive vibrato, 'dirty', and without vibrato
Normal and with bend release

Matrix switches: Horizontal: Keyswitches, C1–D#1 Vertical: Modwheel, 2 zones

	C1	C#1	D1	D#1
sus. normal	vibrato	prog. vib.	dirty	no vibrato
sus. bend	%	%	%	%

20 SX-So Bends - Perf**Samples: 2509 RAM: 156 MB**

Interval performances: Legato, portamento, glissando, and marcato
Normal and with bend release

Matrix switches: Horizontal: Keyswitches, C1–D#1 Vertical: Modwheel, 2 zones

	C1	C#1	D1	D#1
normal	legato	portamento	glissando	marcato
bend RS	%	%	%	%

Matrix - LEVEL 2 C - Repetitions**31 SX-So Perf-Repetitions - Combi****Samples: 1524 RAM: 95 MB**

Repetition performances
Slow and fast legato, slow and fast portato, staccato

Matrix switches: Horizontal: Keyswitches, C1–E1

	C1	C#1	D1	D#1	E1
V1	legato slow	legato fast	portato slow	portato fast	staccato

32 SX-So Perf-Repetitions - Speed**Samples: 1299 RAM: 81 MB**

Repetition performances
Slow and fast legato, fast portato, staccato
Speed controller

Matrix switches: Horizontal: Speed, 4 zones

	H1	H2	H3	H4
V1	legato slow	legato fast	portato fast	staccato

33 SX-So Fast-Repetitions**Samples: 270 RAM: 16 MB**

Fast repetitions
140, 150, 160, 170, 180 BPM

Matrix switches: Horizontal: Keyswitches, C1–E1

	C1	C#1	D1	D#1	E1
speed/BPM	140	150	160	170	180

Matrix - LEVEL 2 D - Scale+Phrase**41 SX-So Scale runs-legato - Special****Samples: 80****RAM: 5 MB**Octave runs, legato, chromatic and whole tone
AB switch up/down**Matrix switches:** Vertical: Modwheel, 2 zones

	legato
V1	chromatic
V2	whole tone

42 SX-So Grace notes - All**Samples: 1022****RAM: 63 MB**Grace notes, minor 2nd to octave
AB switch up/down**Matrix switches:** Horizontal: Keyswitches, C1–B1

	C1	C#1	D1	D#1	E1	F1	F#1	G1	G#1	A1	A#1	B1
interval	min. 2nd	maj. 2nd	min. 3rd	maj. 3rd	4th	dim. 5th	5th	min. 6th	maj. 6th	min. 7th	maj. 7th	octave

Matrix - LEVEL 2 E - Keyswitch Vel**71 SX-So Legato slow - cre5****Samples: 85****RAM: 5 MB**Slow legato notes: Crescendo, keyswitch velocity
Keyswitches control 5 dynamic steps**Matrix switches:** Horizontal: Keyswitches, C1–E1

	C1	C#1	D1	D#1	E1
velocity	1st	2nd	3rd	4th	5th

72 SX-So Legato fast - cre5**Samples: 75****RAM: 4 MB**Fast legato notes: Crescendo, keyswitch velocity
Keyswitches control 5 dynamic steps**Matrix switches:** Horizontal: Keyswitches, C1–E1

	C1	C#1	D1	D#1	E1
velocity	1st	2nd	3rd	4th	5th

73 SX-So Portato - cre9**Samples: 135****RAM: 8 MB**Portato notes: Crescendo, keyswitch velocity
Keyswitches control 9 dynamic steps**Matrix switches:** Horizontal: Keyswitches, C1–G#1

	C1	C#1	D1	D#1	E1	F1	F#1	G1	G#1
velocity	1st	2nd	3rd	4th	5th	6th	7th	8th	9th

74 SX-So Staccato - cre9**Samples: 135****RAM: 8 MB**Staccato notes: Crescendo, keyswitch velocity
Keyswitches control 9 dynamic steps**Matrix switches:** Horizontal: Keyswitches, C1–G#1

	C1	C#1	D1	D#1	E1	F1	F#1	G1	G#1
velocity	1st	2nd	3rd	4th	5th	6th	7th	8th	9th

75 SX-So Combi - cre5**Samples: 160 RAM: 10 MB**

Slow and fast legato: Crescendo, keyswitch velocity
 Keyswitches control 5 dynamic steps

Matrix switches: Horizontal: Keyswitches, C1–E1 Vertical: Modwheel, 2 zones

	C1	C#1	D1	D#1	E1
legato slow	1st	2nd	3rd	4th	5th
legato fast	1st	%	%	%	%

76 SX-So Combi - cre9**Samples: 270 RAM: 16 MB**

Portato and staccato: Crescendo, keyswitch velocity
 Keyswitches control 9 dynamic steps

Matrix switches: Horizontal: Keyswitches, C1–G#1 Vertical: Modwheel, 2 zones

	C1	C#1	D1	D#1	E1	F1	F#1	G1	G#1
portato	1st	2nd	3rd	4th	5th	6th	7th	8th	9th
staccato	1st	%	%	%	%	%	%	%	%

77 SX-So Legato slow - dim5**Samples: 85 RAM: 5 MB**

Slow legato notes: Diminuendo, keyswitch velocity
 Keyswitches control 5 dynamic steps

Matrix switches: Horizontal: Keyswitches, C1–E1

	C1	C#1	D1	D#1	E1
velocity	1st	2nd	3rd	4th	5th

78 SX-So Legato fast - dim5**Samples: 75 RAM: 4 MB**

Fast legato notes: Diminuendo, keyswitch velocity
 Keyswitches control 5 dynamic steps

Matrix switches: Horizontal: Keyswitches, C1–E1

	C1	C#1	D1	D#1	E1
velocity	1st	2nd	3rd	4th	5th

79 SX-So Portato - dim9**Samples: 135 RAM: 8 MB**

Portato notes: Diminuendo, keyswitch velocity
 Keyswitches control 9 dynamic steps

Matrix switches: Horizontal: Keyswitches, C1–G#1

	C1	C#1	D1	D#1	E1	F1	F#1	G1	G#1
velocity	1st	2nd	3rd	4th	5th	6th	7th	8th	9th

80 SX-So Staccato - dim9**Samples: 135 RAM: 8 MB**

Staccato notes: Diminuendo, keyswitch velocity
 Keyswitches control 9 dynamic steps

Matrix switches: Horizontal: Keyswitches, C1–G#1

	C1	C#1	D1	D#1	E1	F1	F#1	G1	G#1
velocity	1st	2nd	3rd	4th	5th	6th	7th	8th	9th

81 SX-So Combi - dim5**Samples: 160 RAM: 10 MB**

Slow and fast legato: Diminuendo, keyswitch velocity

Keyswitches control 5 dynamic steps

Matrix switches: Horizontal: Keyswitches, C1–E1 Vertical: Modwheel, 2 zones

	C1	C#1	D1	D#1	E1
legato slow	1st	2nd	3rd	4th	5th
legato fast	1st	%	%	%	%

82 SX-So Combi - dim9**Samples: 270 RAM: 16 MB**

Portato and staccato: Diminuendo, keyswitch velocity

Keyswitches control 9 dynamic steps

Matrix switches: Horizontal: Keyswitches, C1–G#1 Vertical: Modwheel, 2 zones

	C1	C#1	D1	D#1	E1	F1	F#1	G1	G#1
portato	1st	2nd	3rd	4th	5th	6th	7th	8th	9th
staccato	1st	%	%	%	%	%	%	%	%

Presets

SX-So VSL Preset Level 1**Samples: 3592 RAM: 224 MB**

L1 SX-So_Perf-Legato Speed
 L1 SX-So_Articulation Combi
 L1 SX-So_Perf-Repetitions Combi
 Preset keyswitches: C2–D2

SX-So VSL Preset Level 2**Samples: 6970 RAM: 435 MB**

01 SX-So Perf-Universal
 02 SX-So Perf-Trill Speed
 L1 SX-So Articulation Combi
 31 SX-So Perf-Repetitions - Combi
 76 SX-So Combi - cre9
 19 SX-So Bends - sus
 Preset keyswitches: C2–F2