

Vienna Instruments
Solo Download Instruments
XXL Tam-Tam
Full Library

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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 XXL Tam-Tam. 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
2	1–88	89–127	
3	1–55	56–108	109–127

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
acc	accelerando	me	medium (mallet)
all	combination of all the instruments of a type	mute	muted or damped
bow	played with a bow	nail	fingernail
cent	center	pont	bridge
chrom	chromatic	port	portato
cres	crescendo	RS	release samples
finger	finger	sec	secco
flutter	flutter tonguing	so	soft (mallet)
FX	effect	stac	staccato
gliss	glissando	pont	sul ponticello (played near the bridge)
ha	hard (mallet)	sus	sustained

Articulations

Elements – XXL Tam-Tam

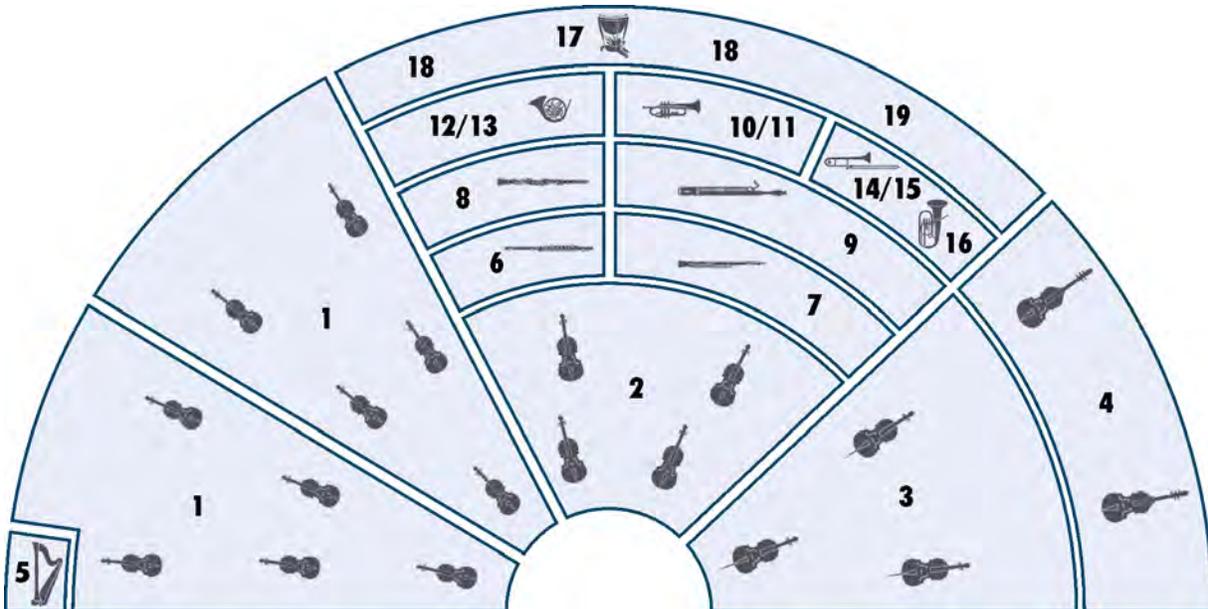
21 TAM XXL

Basic articulations:
 Single hits, rim and middle
 Tremolo dynamics, muted
 Tremolo normal and dynamics, open
 Long tremolo

Effects:
 Flexatone
 Metal
 Paperbox
 Cardboard tube
 Plastic
 Fretsaw and egg cutter
 Miscellaneous 1 and 2

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.

Elements – XXL Tam-Tam

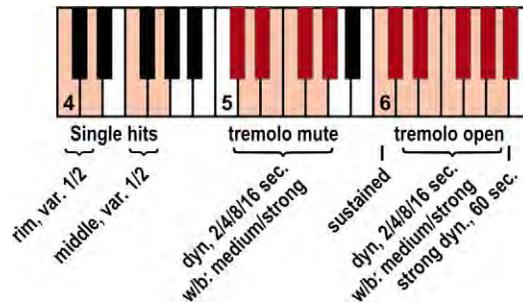
Patches

21 TAM XXL

01 Tam XXL Basic Range: C4–A#6 Samples: 69 RAM: 4 MB

Singe hits, rim and middle
 Tremolo dynamics, muted, 2 to 16 sec.
 Tremolo normal and dynamics, open, 2 to 16 sec.
 Long tremolo, pp–ff, 60 sec.
 Velocity mapping:
 Single hits, 8 layers: 0–15 ppp, 16–35 pp, 36–55 p, 56–70 mp, 71–88 mf, 89–108 f, 109–118 ff, 119–127 fff
 Rolls, 4 layers: 0–55 ppp, 56–88 p, 89–108 mf, 109–127 ff
 Release samples
 AB switch: release duration long/short

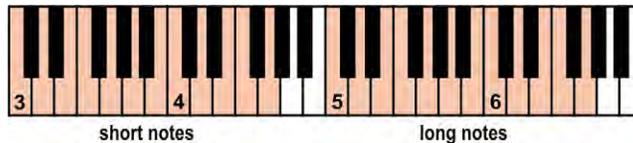
Mapping:
 C4–D4: Single hits, rim, var. 1/2
 F4–G4: Single hits, middle, var. 1/2
 C#5–G#5: Medium and strong tremolo dynamics, muted, 2/4/8/16 sec. (Medium dynamics on white keys, strong dynamics on black keys)
 C6: Tremolo sustained, open
 C#6–G#6: Medium and strong tremolo dynamics, open, 2/4/8/16 sec. (Medium dynamics on white keys, strong dynamics on black keys)
 A#6: Strong tremolo dynamics, 60 sec.



11 Tam XXL FX-1 Flexatone Range: C3–G6 Samples: 32 RAM: 2 MB

Effects: Flexatone, short and long notes
 1 velocity layer

Mapping:
 C3–G4: short notes
 C5–G6: long notes



12 Tam XXL FX-2 Metal

Range: C2–F7

Samples: 44

RAM: 2 MB

Effects: Played with a chain, metal rod, grid, fork, wrench, and can

Various articulations according to beater

Velocity mapping:

Wrench, 3 layers: 0–55 p, 56–108 mf, 109–127 f

Release samples

AB switch: release duration long/short

Mapping:

Chain: C2–A2

C–E: drawn over the rim, short/medium/long

F: Shuffling

G–A: Single stroke, normal/with accent

Metal rod: C3–G3

C–D: scratching, open, short/long

E–F: scratching, damped, short/long

G: single hit with rod pressed against tam-tam

Grid: C4–F4

C–D: drawn over the rim, slow, up/down

E–F: drawn over the rim, fast, up/down

Fork: G4–A4

G: horizontal scratching

A: vertical scratching (AB switch release duration)

Wrench: C5–F5

C: middle hits

D: middle to rim

E: rim hits

F: rim hits from the side

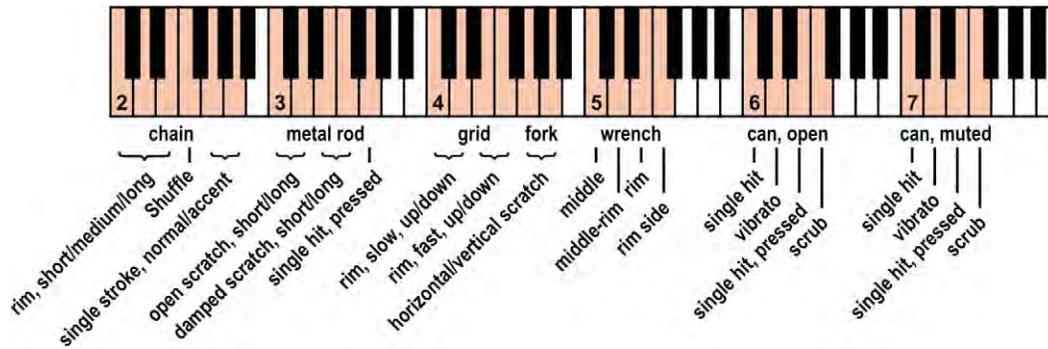
Metal can: C6–F6 (open), C7–F7 (muted)

C: single hit

D: vibrato

E: single hit with can pressed against tam-tam

F: scrubbed (open: AB switch release duration)



13 Tam XXL FX-3 Paperbox

Range: C3–G#6

Samples: 67

RAM: 4 MB

Effects: Supersize, extra large, large, medium, small, very small, extra small, and supersmall paperboxes

Long and short tones (AB on long tones)

1 velocity layer

Release samples

AB switch: release duration long/short

Mapping:

C3–D#3: supersize

F3–A3: extra large

C4–D#4: large

F4–G#4: very small

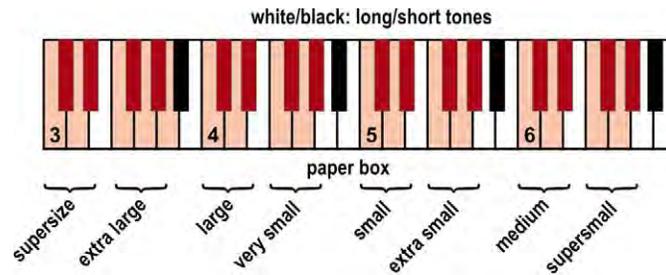
C5–D#5: small

F5–G#5: extra small

C6–D#6: medium

F6–G#6: supersmall

Long tones on white keys, short tones on black keys



14 Tam XXL FX-4 Boardtube

Range: C3–F#6

Samples: 26

RAM: 1 MB

Effects: Extra large, large, medium, small, and extra small cardboard tubes

Long and short tones (AB on long tones)

Glass scratches, high and very high, Long and short

1 velocity layer

Release samples

AB switch: release duration long/short

Mapping:

Cardboard tubes

C3–C#3: extra large

F3–F#3: large

C4–C#4: medium

F4–F#4: small

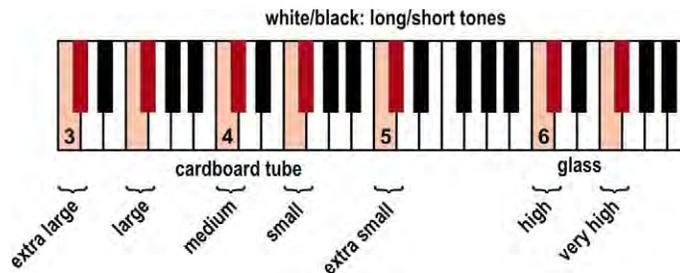
C5–C#5: extra small

Glass

C6–C#6: high

F6–F#6: very high

Long tones on white keys, short tones on black keys



15 Tam XXL FX-5 Plastic

Range: C3–G5

Samples: 30

RAM: 1 MB

Effects: Extra large, large, medium, small, extra small, and supersmall plastic pieces

Long, medium, and short tones (AB on long tones)

1 velocity layer

Release samples

Mapping:

C/F – long; C#/F# – short; D/G – medium

C3–D3: extra large

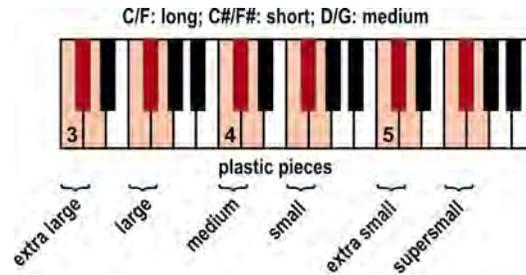
F3–G3: large

C4–D4: medium

F4–G4: small

C5–D5: extra small

F5–G5: supersmall



16 Tam XXL FX-6 Fretsaw

Range: F2–F6

Samples: 17

RAM: 1 MB

Effects: "Bowed" with fretsaw blades, and plucked with an egg cutter

Mapped to create a chromatic scale

1 velocity layer

17 Tam XXL FX-7 Misc1

Range: C2–A5

Samples: 21

RAM: 1 MB

Effects: Played with a massage rod, large, medium, and small rolls, bowed, and played with styrofoam and an ice spoon

1 velocity layer

Mapping:

C2–E2: massage rod, very long/short/long/medium

C3–C#3: large roll, long/short

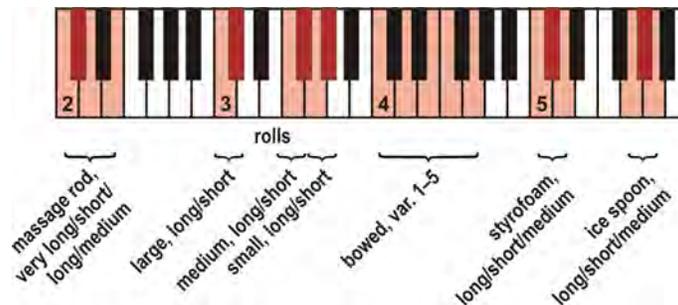
F3–F#3: medium roll, long/short

G3–G#3: small roll, long/short

C4–G4: bowed, var. 1–5

C5–D5: styrofoam, long/short/medium

G5–A5: ice spoon, long/short/medium



18 Tam XXL FX-8 Misc2

Range: C2–G5

Samples: 19

RAM: 1 MB

Effects: Single hits, played with extra large cardboard, a plunger, a flyswatter; with wood, tam-tam and marimba mallets, a glass and a glass bowl

2 velocity layers

Mapping:

C2–E2: cardboard, middle/between middle and rim/rim

G2: plunger

C3–E3: flyswatter, var. 1–3

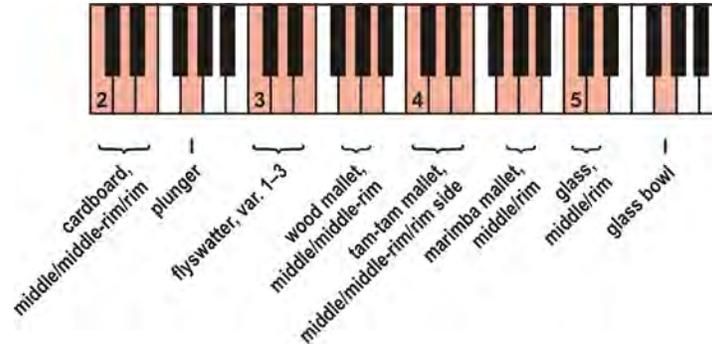
G3–A3: wood mallet, middle/between middle and rim (p and f)

C4–E4: tam-tam mallet, middle/between middle and rim/rim side

G4–A4: marimba mallet, middle/rim

C5–D5: glass, middle/rim

G5: glass bowl

**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

09 Tam-Tam XXL

Samples: 325

RAM: 20 MB

Basic articulations, and effects: Flexatone, metal, paper box, cardboard tube, plastic, fretsaw, miscellaneous 1 and 2

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

	C1	C#1	D1	D#1	E1
V1	basic	flexatone	metal	paperbox	cardboard tube
V2	basic	plastic	fretsaw	misc. 1	misc. 2

Presets

Tam XXL VSL Preset

Samples: 325

RAM: 20 MB

Matrix: 09 Tam-Tam XXL