

Vienna Instruments

Harps

User Manual

Harp I
Harp II

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Introduction

Welcome to the Vienna Symphonic Library, and thank you for purchasing one (or all) of the Libraries treated in this manual! This document contains the mapping information for the Standard and Full Libraries of the Single Instruments Harp I and Harp II. 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.

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., percussion Patches), the mapping layout will be shown in a detailed graphic.

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

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.

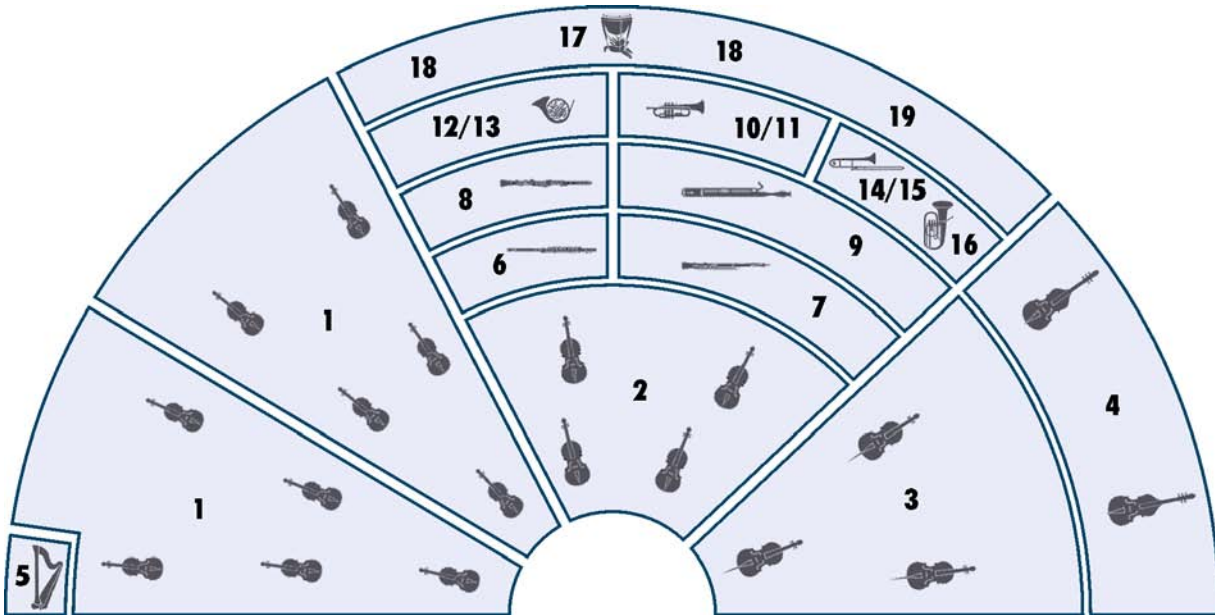
Abbreviations

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
+	faster articulation (runs and arpeggios)	li	light
150, 160, ...	150, 160, ... BPM (beats per minute)	lo	long
1s, 2s, ...	tone length 1 sec., 2 sec., ...	ma	major
acc	accelerando	me	medium
all	combination of all Patches of a category	mi	minor
arp	arpeggio	mord	mordent
cre	crescendo	nA	normal attack
dim	diminuendo	noVib	without vibrato
dm	diminished (arpeggios)	perf-rep	repetition performance
dyn	dynamics (crescendo and diminuendo)	por	portato
dyn5, dyn9	dynamics, 5/9 repetitions	run	octave run
fa	fast	sA	soft attack
faT	fast triplets	sl	slow
fA	fast attack	sta, stac	staccato
fA_auto	attack automation (normal/fast attack)	str	strong
fast-rep	fast repetitions	sus	sustained
flutter	flutter tonguing	T	triplets
fx	effect – flute: tongue-ram staccato	UB	upbeat
hA	hard attack	UB-a1, -a2	1, 2 upbeats
leg	legato	v1, v2 ...	1st, 2nd, ... variation
		Vib	with (medium) vibrato
		Vib-progr	progressive vibrato
		XF	Cell crossfade Matrix

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.

Harp I Standard Library

Patches

01D Harp 1

Single notes: Normal, muted, harmonics, bisbigliando

Glissandos: Medium speed major, diminished, pentatonic, and whole tone

01D HA1_normal

Range: B0–A7

Samples: 246

RAM: 15 MB

Single notes, sustained

3 velocity layers: 0–55 p; 56–108 mf; 109–127 f

2 Alternations

02D HA1_mute

Range: B0–A7

Samples: 246

RAM: 15 MB

Single notes, muted

3 velocity layers: 0–55 p; 56–108 mf; 109–127 f

2 Alternations

03D HA1_flageolette

Range: E3–A6

Samples: 38

RAM: 2 MB

Harmonics or flageolet tones

1 velocity layer: 0–127 p

2 Alternations

04D HA1_bisbigliando

Range: A2–E7

Samples: 76

RAM: 4 MB

Bisbigliando or 'whispering', a sound effect created by soft tremolo play on the harp.

1 velocity layer: 0–127 mp

Release samples

11D HA1_7gl-me_C-ma (through to B-ma)

Range: C3–E5

Samples: 56

RAM: 3 MB

Medium scale glissandos, C to B major, up and down spanning 1, 3, and 5 octaves, single and multiple cross-glissandos

2 velocity layers: 0–88 p; 89–127 f

Mapping:

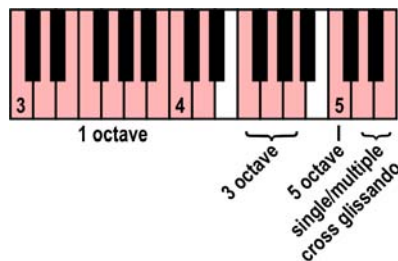
C3–D4: 1 octave glissandos, in various ranges (p and f for C and B, mf for other scales)

F4–A4: 3 octave (p/f)

C5: 5 octave (p/f)

D5: single cross-glissando (p/f)

E5: multiple cross-glissando (p/f)



31D HA1_4gl-me_dim-C (C#/D)**Range: C3–E5****Samples: 38****RAM: 2 MB**

Medium 4-note glissandos, diminished, up and down spanning 1, 3, and 5 octaves, single and multiple cross-glissandos

Base key: C/C#/D

2 velocity layers: 0–88 p; 89–127 f

Mapping:

C3–D4: 1 octave glissandos, mezzoforte, in various ranges

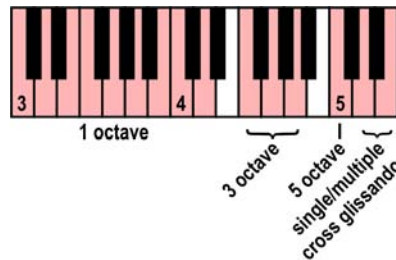
F4–A4: 3 octave (p/f)

C5: 5 octave (p/f)

D5: single cross-glissando (p/f)

E5: multiple cross-glissando (p/f)

Scales: C – D#, F#, A, C; C# – C#, E, G, Bb; D – D, F, G#, B

**41D HA1_5gl-me_pent-1 (2/3)****Range: C3–E5****Samples: 38****RAM: 2 MB**

Medium 5-note glissandos, pentatonic, up and down spanning 1, 3, and 5 octaves, single and multiple cross-glissandos

2 velocity layers: 0–88 p; 89–127 f

Mapping:

C3–D4: 1 octave glissandos, mezzoforte, in various ranges

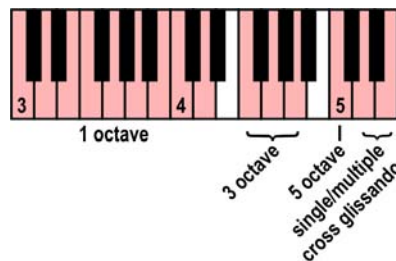
F4–A4: 3 octave (p/f)

C5: 5 octave (p/f)

D5: single cross-glissando (p/f)

E5: multiple cross-glissando (p/f)

Scales: 1 – B, C#, D#, F#, G#; 2 – C, D, E, G, A; 3 – Db, Eb, F, Ab, Bb



51D HA1_6gl-me_whole-C (C#)**Range: C3-E5****Samples: 40****RAM: 2 MB**

Medium 6-note glissandos, whole tone, up and down spanning 1, 3, and 5 octaves, single and multiple cross-glissandos

Base key: C/C#

2 velocity layers: 0–88 p; 89–127 f

Mapping:

C3–E4: 1 octave glissandos, mezzoforte, in various ranges

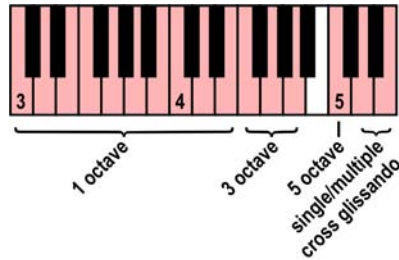
F4–A4: 3 octave (p/f)

C5: 5 octave (p/f)

D5: single cross-glissando (p/f)

E5: multiple cross-glissando (p/f)

Scales: C – C, D, E, F#, G#, A#; C# – C#, D#, F, G, A, B

**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

01D Harp 1

DL-Matrix HA1 Articulation Combi

Samples: 606

RAM: 37 MB

Single notes

Normal, muted, flageolet,
bisbigliando**Matrix switches:** Horizontal: Modwheel, 4 zones

V1	H1	H2	H3	H4
	normal	muted	flageolet	bisbigliando

DL-Matrix HA1 Gliss Major

Samples: 246

RAM: 15 MB

Glissandos, medium speed

C to B major

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
major gliss.	C	C#	D	D#	E	F	F#	G	G#	A	A#	B

DL-Matrix HA1 Gliss Special

Samples: 192

RAM: 12 MB

Glissandos, medium speed

Diminished (C/C#/D), pentatonic (Var. 1/2/3), whole tone (C/C#)

AB switch up/down

Matrix switches: Horizontal: Keyswitches, C1–D1 Vertical: Modwheel, 3 zones

	C1	C#1	D1
diminished	C	C#	D
pentatonic	var. 1	var. 2	var. 3
whole tone	C	C#	C#

Presets

01D Harp 1

Harp 1

Samples: 1044

RAM: 65 MB

L1 HA1_Articulation_Combi

L1 HA1_Gliss_Major-medium

L1 HA1_Gliss_Special-medium

Keyswitches: A7, B7, C8

Harp I Full Library

Patches

01 SINGLE NOTES

Range: B0–A7



Single notes, normal and muted
Près de la table
Harmonics
Bisbigliando

01 HA1_normal

Samples: 246

RAM: 15 MB

Single notes, sustained
3 velocity layers: 0–55 p; 56–108 mf; 109–127 f
2 Alternations

02 HA1_mute

Samples: 246

RAM: 15 MB

Single notes, muted
3 velocity layers: 0–55 p; 56–108 mf; 109–127 f
2 Alternations

03 HA1_pres-de-la-table

Samples: 162

RAM: 10 MB

Près-de-la-table
The strings are plucked near the resonating body of the harp, thus giving it a sharper, 'drier' sound.
2 velocity layers: 0–88 mp; 89–127 f
2 Alternations

04 HA1_flageolette

Range: E3–A6

Samples: 38

RAM: 2 MB

Harmonics or flageolet tones
1 velocity layer: 0–127 p
2 Alternations

05 HA1_bisbigliando

Range: A2–E7

Samples: 76

RAM: 4 MB

Bisbigliando or 'whispering', a sound effect created by soft tremolo play on the harp.
1 velocity layer: 0–127 mp
Release samples

11 HA1_normal+RS-mute

Samples: 480

RAM: 30 MB

Single notes, normal with muted release samples
3 velocity layers: 0–55 p; 56–108 mf; 109–127 f
Release samples
2 Alternations
AB switch: release volume high/low

02 GLISSANDI

Glissandos slow, medium, and fast
Major, minor, diminished, pentatonic, and whole tone
The Patches are mapped to white keys

01 Major slow speed

Range: C3–E5



01 HA1_7gl-sl_C-ma (through to B-ma)

Samples: 56

RAM: 3 MB

Slow scale glissandos, C to B major, up and down spanning 1, 3, and 5 octaves, single and multiple cross-glissandos
2 velocity layers: 0–88 p; 89–127 f

AB switch: up/down

Mapping:

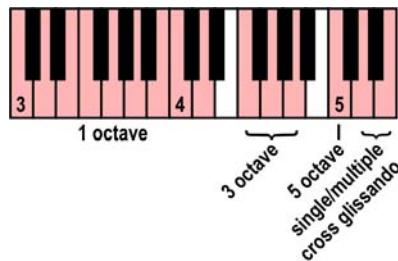
C3–D4: 1 octave glissandos, in various ranges (p and f for C and B, mf for other scales)

F4–A4: 3 octave (p/f)

C5: 5 octave (p/f)

D5: single cross-glissando (p/f)

E5: multiple cross-glissando (p/f)



02 Major medium speed

Range: C3–E5



01 HA1_7gl-me_C-ma (through to B-ma)

Samples: 56

RAM: 3 MB

Medium scale glissandos, C to B major, up and down spanning 1, 3, and 5 octaves, single and multiple cross-glissandos
2 velocity layers: 0–88 p; 89–127 f

AB switch: up/down

Mapping:

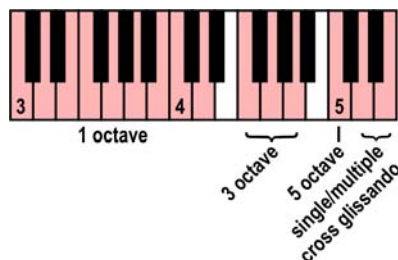
C3–D4: 1 octave glissandos, in various ranges (p and f for C and B, mf for other scales)

F4–A4: 3 octave (p/f)

C5: 5 octave (p/f)

D5: single cross-glissando (p/f)

E5: multiple cross-glissando (p/f)



**03 Major fast speed****Range: C3–D7****01 HA1_7gl-fa_C-ma (through to B-ma)****Samples: 74****RAM: 4 MB**

Fast scale glissandos, C to B major, up and down spanning 1, 3, and 5 octaves, single and multiple cross-glissandos, and fortissimo octave glissandos

2 velocity layers: 0–88 p; 89–127 f

AB switch: up/down

Mapping:

C3–D4: 1 octave glissandos, in various ranges (p and f for C and B, mf for other scales)

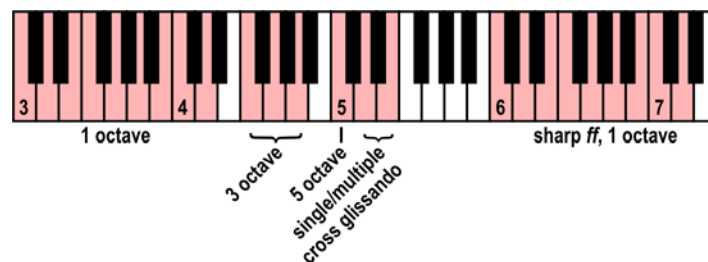
F4–A4: 3 octave (p/f)

C5: 5 octave (p/f)

D5: single cross-glissando (p/f)

E5: multiple cross-glissando (p/f)

C6–D7: 1 octave glissandos, fortissimo, in various ranges

**04 Minor slow speed****Range: C3–E5****01 HA1_7gl-sl_C-mi (through to B-mi)****Samples: 56****RAM: 3 MB**

Slow scale glissandos, C to B minor, up and down spanning 1, 3, and 5 octaves, single and multiple cross-glissandos

2 velocity layers: 0–88 p; 89–127 f

AB switch: up/down

Mapping:

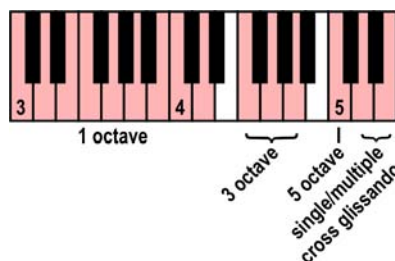
C3–D4: 1 octave glissandos, in various ranges (p and f for C and B, mf for other scales)

F4–A4: 3 octave (p/f)

C5: 5 octave (p/f)

D5: single cross-glissando (p/f)

E5: multiple cross-glissando (p/f)



05 Minor medium speed**Range: C3–E5****01 HA1_7gl-me_C-mi (through to B-mi)****Samples: 56****RAM: 3 MB**

Medium scale glissandos, C to B minor, up and down spanning 1, 3, and 5 octaves, single and multiple cross-glissandos

2 velocity layers: 0–88 p; 89–127 f

AB switch: up/down

Mapping:

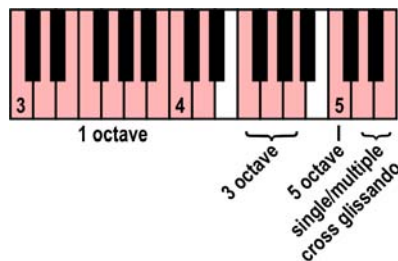
C3–D4: 1 octave glissandos, in various ranges (p and f for C and B, mf for other scales)

F4–A4: 3 octave (p/f)

C5: 5 octave (p/f)

D5: single cross-glissando (p/f)

E5: multiple cross-glissando (p/f)

**06 Minor fast speed****Range: C3–D7****01 HA1_7gl-fa_C-mi (through to B-mi)****Samples: 74****RAM: 4 MB**

Fast scale glissandos, C to B minor, up and down spanning 1, 3, and 5 octaves, single and multiple cross-glissandos, and fortissimo octave glissandos

2 velocity layers: 0–88 p; 89–127 f

AB switch: up/down

Mapping:

C3–D4: 1 octave glissandos, in various ranges (p and f for C and B, mf for other scales)

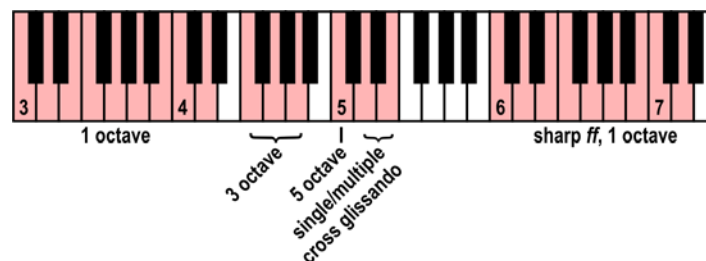
F4–A4: 3 octave (p/f)

C5: 5 octave (p/f)

D5: single cross-glissando (p/f)

E5: multiple cross-glissando (p/f)

C6–D7: 1 octave glissandos, fortissimo, in various ranges



07 7V major slow speed**Range: C3–E5****01 HA1_4gl-sl_7V-1 (2/3/4/5)****Samples: 38****RAM: 2 MB**

Slow 4-note glissandos, major, up and down spanning 1, 3, and 5 octaves, single and multiple cross-glissandos

2 velocity layers: 0–88 p; 89–127 f

AB switch: up/down

Mapping:

C3–D4: 1 octave glissandos, mezzoforte, in various ranges

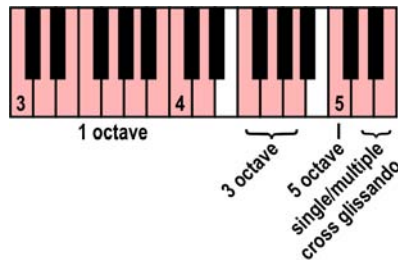
F4–A4: 3 octave (p/f)

C5: 5 octave (p/f)

D5: single cross-glissando (p/f)

E5: multiple cross-glissando (p/f)

Scales: 1 – B, D#, F#, A; 2 – C#, E#, G#, B; 3 – E, G#, B, D; 4 – F#, A#, C#, E; 5 – G#, B#, D#, F#

**08 7V major medium speed****Range: C3–E5****01 HA1_4gl-me_7V-1 (2/3/4/5)****Samples: 38****RAM: 2 MB**

Medium 4-note glissandos, major, up and down spanning 1, 3, and 5 octaves, single and multiple cross-glissandos

2 velocity layers: 0–88 p; 89–127 f

AB switch: up/down

Mapping:

C3–D4: 1 octave glissandos, mezzoforte, in various ranges

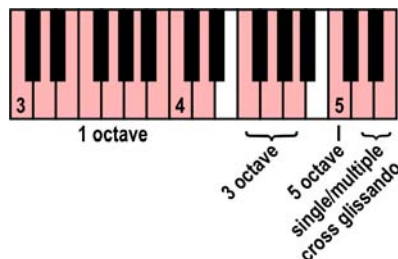
F4–A4: 3 octave (p/f)

C5: 5 octave (p/f)

D5: single cross-glissando (p/f)

E5: multiple cross-glissando (p/f)

Scales: 1 – B, D#, F#, A; 2 – C#, E#, G#, B; 3 – E, G#, B, D; 4 – F#, A#, C#, E; 5 – G#, B#, D#, F#



09 7V major fast speed**Range: C3–D7****01 HA1_4gl-fa_7V-1 (2/3/4/5)****Samples: 56****RAM: 3 MB**

Fast 4-note glissandos, major, up and down spanning 1, 3, and 5 octaves, single and multiple cross-glissandos, and fortissimo octave glissandos

2 velocity layers: 0–88 p; 89–127 f

AB switch: up/down

Mapping:

C3–D4: 1 octave glissandos, mezzoforte, in various ranges

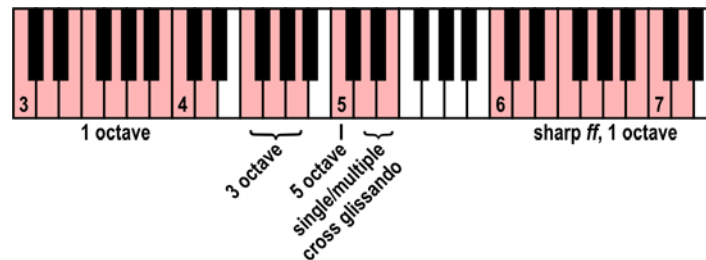
F4–A4: 3 octave (p/f)

C5: 5 octave (p/f)

D5: single cross-glissando (p/f)

E5: multiple cross-glissando (p/f)

C6–D7: 1 octave glissandos, fortissimo, in various ranges

**10 7V minor slow speed****Range: C3–E5****01 HA1_4gl-sl_mi7-1 (2/3/4/5)****Samples: 38****RAM: 2 MB**

Slow 4-note glissandos, minor, up and down spanning 1, 3, and 5 octaves, single and multiple cross-glissandos

2 velocity layers: 0–88 p; 89–127 f

AB switch: up/down

Mapping:

C3–D4: 1 octave glissandos, mezzoforte, in various ranges

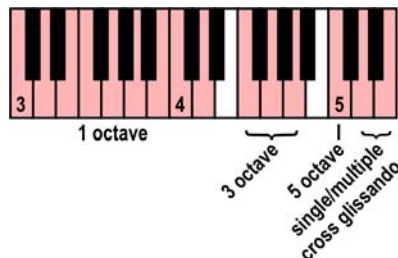
F4–A4: 3 octave (p/f)

C5: 5 octave (p/f)

D5: single cross-glissando (p/f)

E5: multiple cross-glissando (p/f)

Scales: 1 – C, Eb, G, Bb; 2 – D, F, Ab, C; 3 – F, Ab, B (Cb), Eb; 4 – G, Bb, Db, F; 5 – Bb, Db, E (Fb), Ab



11 7V minor medium speed**Range: C3–E5****01 HA1_4gl-me_mi7-1 (2/3/4/5)****Samples: 38****RAM: 2 MB**

Medium 4-note glissandos, minor, up and down spanning 1, 3, and 5 octaves, single and multiple cross-glissandos

2 velocity layers: 0–88 p; 89–127 f

AB switch: up/down

Mapping:

C3–D4: 1 octave glissandos, mezzoforte, in various ranges

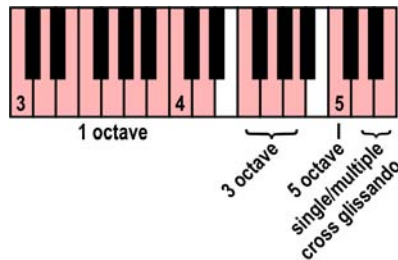
F4–A4: 3 octave (p/f)

C5: 5 octave (p/f)

D5: single cross-glissando (p/f)

E5: multiple cross-glissando (p/f)

Scales: 1 – C, Eb, G, Bb; 2 – D, F, Ab, C; 3 – F, Ab, B (Cb), Eb; 4 – G, Bb, Db, F; 5 – Bb, Db, E (Fb), Ab

**12 7V minor fast speed****Range: C3–D7****01 HA1_4gl-fa_mi7-1 (2/3/4/5)****Samples: 56****RAM: 3 MB**

Fast 4-note glissandos, minor, up and down spanning 1, 3, and 5 octaves, single and multiple cross-glissandos, and fortissimo octave glissandos

2 velocity layers: 0–88 p; 89–127 f

AB switch: up/down

Mapping:

C3–D4: 1 octave glissandos, mezzoforte, in various ranges

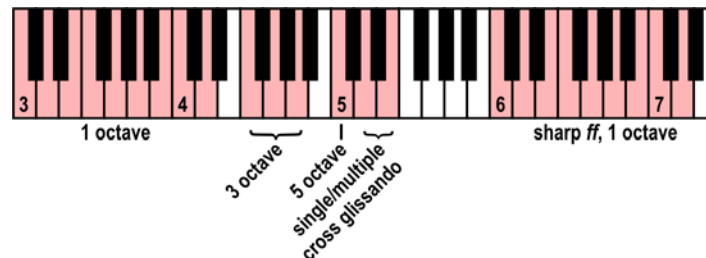
F4–A4: 3 octave (p/f)

C5: 5 octave (p/f)

D5: single cross-glissando (p/f)

E5: multiple cross-glissando (p/f)

C6–D7: 1 octave glissandos, fortissimo, in various ranges



**13 7 diminished slow speed****Range: C3–E5****01 HA1_4gl-sl_dim-C (C#/D)****Samples: 38****RAM: 2 MB**

Slow 4-note glissandos, diminished, up and down spanning 1, 3, and 5 octaves, single and multiple cross-glissandos

Base key: C/C#/D

2 velocity layers: 0–88 p; 89–127 f

AB switch: up/down

Mapping:

C3–D4: 1 octave glissandos, mezzoforte, in various ranges

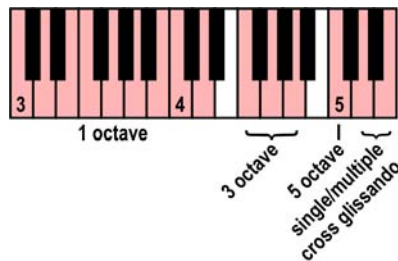
F4–A4: 3 octave (p/f)

C5: 5 octave (p/f)

D5: single cross-glissando (p/f)

E5: multiple cross-glissando (p/f)

Scales: C – D#, F#, A, C; C# – C#, E, G, Bb; D – D, F, G#, B

**14 7 diminished medium speed****Range: C3–E5****01 HA1_4gl-me_dim-C (C#/D)****Samples: 38****RAM: 2 MB**

Medium 4-note glissandos, diminished, up and down spanning 1, 3, and 5 octaves, single and multiple cross-glissandos

Base key: C/C#/D

2 velocity layers: 0–88 p; 89–127 f

AB switch: up/down

Mapping:

C3–D4: 1 octave glissandos, mezzoforte, in various ranges

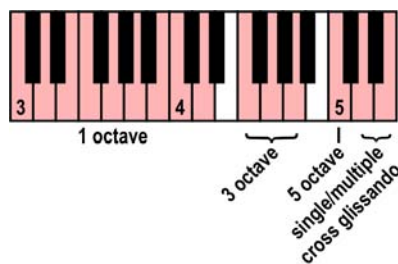
F4–A4: 3 octave (p/f)

C5: 5 octave (p/f)

D5: single cross-glissando (p/f)

E5: multiple cross-glissando (p/f)

Scales: C – D#, F#, A, C; C# – C#, E, G, Bb; D – D, F, G#, B



**15 7 diminished fast speed****Range: C3–D7****01 HA1_4gl-fa_dim-C (C#/D)****Samples: 56****RAM: 3 MB**

Fast 4-note glissandos, diminished, up and down spanning 1, 3, and 5 octaves, single and multiple cross-glissandos, and fortissimo octave glissandos

Base key: C/C#/D

2 velocity layers: 0–88 p; 89–127 f

AB switch: up/down

Mapping:

C3–D4: 1 octave glissandos, mezzoforte, in various ranges

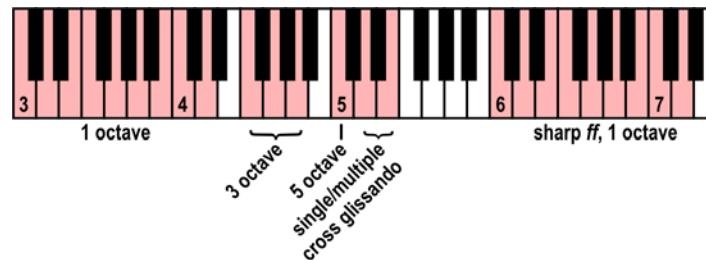
F4–A4: 3 octave (p/f)

C5: 5 octave (p/f)

D5: single cross-glissando (p/f)

E5: multiple cross-glissando (p/f)

C6–D7: 1 octave glissandos, fortissimo, in various ranges

**16 Pentatonic slow speed****Range: C3–E5****01 HA1_5gl-sl_pent-1 (2/3)****Samples: 38****RAM: 2 MB**

Slow 5-note glissandos, pentatonic, up and down spanning 1, 3, and 5 octaves, single and multiple cross-glissandos

2 velocity layers: 0–88 p; 89–127 f

AB switch: up/down

Mapping:

C3–D4: 1 octave glissandos, mezzoforte, in various ranges

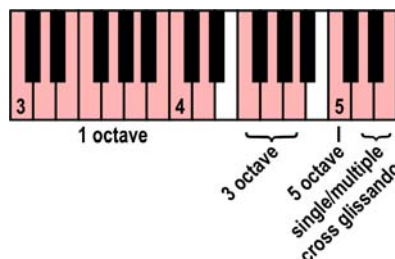
F4–A4: 3 octave (p/f)

C5: 5 octave (p/f)

D5: single cross-glissando (p/f)

E5: multiple cross-glissando (p/f)

Scales: 1 – B, C#, D#, F#, G#; 2 – C, D, E, G, A; 3 – Db, Eb, F, Ab, Bb



17 Pentatonic medium speed**Range: C3–E5****01 HA1_5gl-me_pent-1 (2/3)****Samples: 38****RAM: 2 MB**

Medium 5-note glissandos, pentatonic, up and down spanning 1, 3, and 5 octaves, single and multiple cross-glissandos
 2 velocity layers: 0–88 p; 89–127 f

AB switch: up/down

Mapping:

C3–D4: 1 octave glissandos, mezzoforte, in various ranges

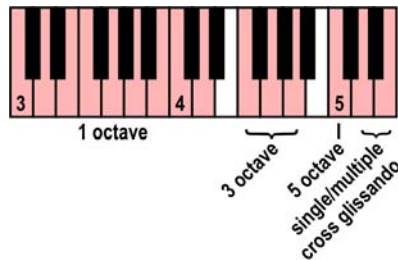
F4–A4: 3 octave (p/f)

C5: 5 octave (p/f)

D5: single cross-glissando (p/f)

E5: multiple cross-glissando (p/f)

Scales: 1 – B, C#, D#, F#, G#; 2 – C, D, E, G, A; 3 – Db, Eb, F, Ab, Bb

**18 Pentatonic fast speed****Range: C3–D7****01 HA1_5gl-fa_pent-1 (2/3)****Samples: 56****RAM: 3 MB**

Fast 5-note glissandos, pentatonic, up and down spanning 1, 3, and 5 octaves, single and multiple cross-glissandos, and fortissimo octave glissandos

2 velocity layers: 0–88 p; 89–127 f

AB switch: up/down

Mapping:

C3–D4: 1 octave glissandos, mezzoforte, in various ranges

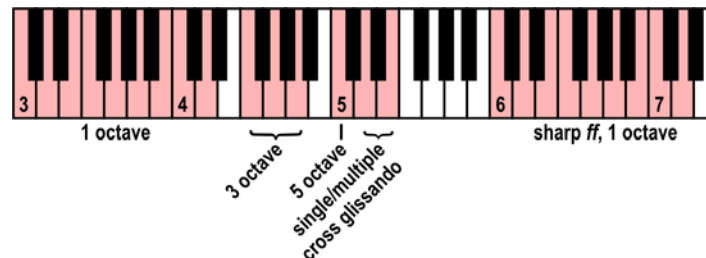
F4–A4: 3 octave (p/f)

C5: 5 octave (p/f)

D5: single cross-glissando (p/f)

E5: multiple cross-glissando (p/f)

C6–D7: 1 octave glissandos, fortissimo, in various ranges



**19 Whole slow speed****Range: C3–E5****01 HA1_6gl-sl_whole-C (C#)****Samples: 40****RAM: 2 MB**

Slow 6-note glissandos, whole tone, up and down spanning 1, 3, and 5 octaves, single and multiple cross-glissandos

Base key: C/C#

2 velocity layers: 0–88 p; 89–127 f

AB switch: up/down

Mapping:

C3–E4: 1 octave glissandos, mezzoforte, in various ranges

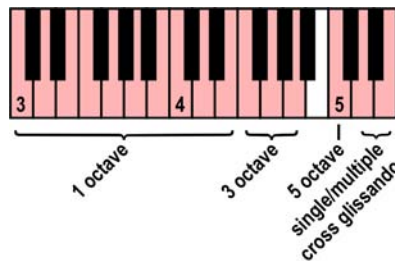
F4–A4: 3 octave (p/f)

C5: 5 octave (p/f)

D5: single cross-glissando (p/f)

E5: multiple cross-glissando (p/f)

Scales: C – C, D, E, F#, G#, A#; C# – C#, D#, F, G, A, B

**20 Whole medium speed****Range: C3–E5****01 HA1_6gl-me_whole-C (C#)****Samples: 40****RAM: 2 MB**

Medium 6-note glissandos, whole tone, up and down spanning 1, 3, and 5 octaves, single and multiple cross-glissandos

Base key: C/C#

2 velocity layers: 0–88 p; 89–127 f

AB switch: up/down

Mapping:

C3–E4: 1 octave glissandos, mezzoforte, in various ranges

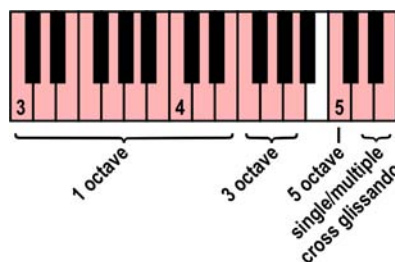
F4–A4: 3 octave (p/f)

C5: 5 octave (p/f)

D5: single cross-glissando (p/f)

E5: multiple cross-glissando (p/f)

Scales: C – C, D, E, F#, G#, A#; C# – C#, D#, F, G, A, B



**21 Whole fast speed****Range: C3–A7****01 HA1_6gl-fa_whole-C (C#)****Samples: 66****RAM: 4 MB**

Fast 6-note glissandos, whole tone, up and down spanning 1, 3, and 5 octaves, single and multiple cross-glissandos, and fortissimo octave glissandos

Base key: C/C#

2 velocity layers: 0–88 p; 89–127 f

AB switch: up/down

Mapping:

C3–E4: 1 octave glissandos, mezzoforte, in various ranges

F4–A4: 3 octave (p/f)

C5: 5 octave (p/f)

D5: single cross-glissando (p/f)

E5: multiple cross-glissando (p/f)

C6–A7: 1 octave glissandos, fortissimo, in various ranges

**03 ARPEGGIOS a3****Range: C3–C7**

3-note arpeggios

Major and minor, diminished and augmented upward arpeggios, slow, fast, and straight (played as chords)

Major and minor arpeggios are mapped to the notes of their chords. For mapping illustrations and playing ranges of each Patch, please see the appendix.

**01 major a3 slow speed****01 HA1_3arp-sl_C-ma (through to B-ma)****Samples: 26****RAM: 1 MB**

Slow 3-note upward arpeggios, C to B major

Mapping (for C major): C – base, E – 1st inversion, G – 2nd inversion

2 velocity layers: 0–88 p; 89–127 f

**02 major a3 fast speed****01 HA1_3arp-fa_C-ma (through to B-ma)****Samples: 26****RAM: 1 MB**

Fast 3-note upward arpeggios, C to B major

Mapping (for C major): C – base, E – 1st inversion, G – 2nd inversion

2 velocity layers: 0–88 p; 89–127 f

03 major a3 straight**01 HA1_3arp-st_C-ma (through to B-ma)****Samples: 26****RAM: 1 MB**

Straight 3-note upward arpeggios (played as chords), C to B major
 Mapping (for C major): C – base, E – 1st inversion, G – 2nd inversion
 2 velocity layers: 0–88 p; 89–127 f

04 minor a3 slow speed**01 HA1_3arp-sl_C-mi (through to B-mi)****Samples: 26****RAM: 1 MB**

Slow 3-note upward arpeggios, C to B minor
 Mapping (for C minor): C – base, D# – 1st inversion, G – 2nd inversion
 2 velocity layers: 0–88 p; 89–127 f

05 minor a3 fast speed**01 HA1_3arp-fa_C-mi (through to B-mi)****Samples: 26****RAM: 1 MB**

Fast 3-note upward arpeggios, C to B minor
 Mapping (for C minor): C – base, D# – 1st inversion, G – 2nd inversion
 2 velocity layers: 0–88 p; 89–127 f

06 minor a3 straight**01 HA1_3arp-st_C-mi (through to B-mi)****Samples: 26****RAM: 1 MB**

Straight 3-note upward arpeggios (played as chords), C to B minor
 Mapping (for C minor): C – base, D# – 1st inversion, G – 2nd inversion
 2 velocity layers: 0–88 p; 89–127 f

07 dim a3 slow speed**Range: C3–D7****01 HA1_3arp-sl_dim (-fa/-st)****Samples: 102****RAM: 6 MB**

Slow/fast/straight 3-note upward arpeggios, diminished
 Mapped chromatically
 2 velocity layers: 0–88 p; 89–127 f

10 augm a3 slow speed**Range: B2–C7****01 HA1_3arp-sl_aug (-fa/-st)****Samples: 50****RAM: 3 MB**

Slow/fast/straight 3-note upward arpeggios, augmented
 Mapped chromatically
 2 velocity layers: 0–88 p; 89–127 f

04 ARPEGGIOS a4**Range: C3–G6**

4-note arpeggios

Major and minor, diminished and augmented upward arpeggios, slow, fast, and straight (played as chords)

Major and minor arpeggios are mapped to the notes of their chords. For mapping illustrations and playing ranges of each Patch, please see the appendix.

01 major a4 slow speed**01 HA1_4arp-sl_C-ma (through to B-ma)****Samples: 24****RAM: 1 MB**

Slow 4-note upward arpeggios, C to B major

Mapping (for C major): C – base, E – 1st inversion, G – 2nd inversion

2 velocity layers: 0–88 p; 89–127 f

02 major a4 fast speed**01 HA1_4arp-fa_C-ma (through to B-ma)****Samples: 24****RAM: 1 MB**

Fast 4-note upward arpeggios, C to B major

Mapping (for C major): C – base, E – 1st inversion, G – 2nd inversion

2 velocity layers: 0–88 p; 89–127 f

03 major a4 straight**01 HA1_4arp-st_C-ma (through to B-ma)****Samples: 24****RAM: 1 MB**

Straight 4-note upward arpeggios (played as chords), C to B major

Mapping (for C major): C – base, E – 1st inversion, G – 2nd inversion

2 velocity layers: 0–88 p; 89–127 f

04 minor a4 slow speed**01 HA1_4arp-sl_C-mi (through to B-mi)****Samples: 24****RAM: 1 MB**

Slow 4-note upward arpeggios, C to B minor

Mapping (for C minor): C – base, D# – 1st inversion, G – 2nd inversion

2 velocity layers: 0–88 p; 89–127 f

05 minor a4 fast speed**01 HA1_4arp-fa_C-mi (through to B-mi)****Samples: 24****RAM: 1 MB**

Fast 4-note upward arpeggios, C to B minor

Mapping (for C minor): C – base, D# – 1st inversion, G – 2nd inversion

2 velocity layers: 0–88 p; 89–127 f

06 minor a4 straight**01 HA1_4arp-st_C-mi (through to B-mi)****Samples: 24****RAM: 1 MB**

Straight 4-note upward arpeggios (played as chords), C to B minor
 Mapping (for C major): C – base, E – 1st inversion, G – 2nd inversion
 2 velocity layers: 0–88 p; 89–127 f

07 dim a4 slow speed**Range: C3–B6****01 HA1_4arp-sl_dim (-fa/-st)****Samples: 96****RAM: 6 MB**

Slow/fast/straight 4-note upward arpeggios, diminished
 Mapped chromatically
 2 velocity layers: 0–88 p; 89–127 f

10 augm a4 slow speed**Range: B2–G#6****01 HA1_4arp-sl_aug (-fa/-st)****Samples: 46****RAM: 2 MB**

Slow/fast/straight 4-note upward arpeggios, augmented
 Mapped chromatically
 2 velocity layers: 0–88 p; 89–127 f

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 HA1 Articulation Combi

Samples: 606

RAM: 37 MB

Single notes
Normal, muted, flageolet,
bisbigliando

Matrix switches: Horizontal: Modwheel, 4 zones

V1	H1	H2	H3	H4
	normal	muted	flageolet	bisbigliando

L1 HA1 Gliss Major-medium

Samples: 246

RAM: 15 MB

Glissandos, medium speed
C to B major
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
major gliss.	C	C#	D	D#	E	F	F#	G	G#	A	A#	B

L1 HA1 Gliss Special-medium

Samples: 192

RAM: 12 MB

Glissandos, medium speed
Diminished (C/C#/D), pentatonic (Var. 1/2/3), whole tone (C/C#)
AB switch up/down

Matrix switches: Horizontal: Keyswitches, C1–D1 Vertical: Modwheel, 3 zones

	C1	C#1	D1
diminished	C	C#	D
pentatonic	var. 1	var. 2	var. 3
whole tone	C	C#	C#

Matrix - LEVEL 2 A - Basic

00 HA1 Articulation Combi

Samples: 1002

RAM: 62 MB

Single notes
Normal, muted, norm/mute RS
flageolet, pres-de-la-table,
bisbigliando

Matrix switches: Horizontal: Modwheel, 6 zones

V1	H1	H2	H3	H4	H5	H6
	normal	muted	norm/mute RS	flageolet	près-de-la-t.	bisbigliando

Matrix - LEVEL 2 B - Glissandi**01 HA1 Gliss Major-slow****Samples: 246****RAM: 15 MB**

Glissandos, slow

C to B major

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
slow gliss.	C	C#	D	D#	E	F	F#	G	G#	A	A#	B

02 HA1 Gliss Major-medium**Samples: 246****RAM: 15 MB**

Glissandos, medium speed

C to B major

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
medium gliss.	C	C#	D	D#	E	F	F#	G	G#	A	A#	B

03 HA1 Gliss Major-fast**Samples: 354****RAM: 22 MB**

Glissandos, fast

C to B major

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
fast gliss.	C	C#	D	D#	E	F	F#	G	G#	A	A#	B

04 HA1 Gliss Major-All**Samples: 846****RAM: 52 MB**

Glissandos

Slow/medium/fast

C to B major

AB switch up/down

Matrix switches: Horizontal: Keyswitches, C1–B1 Vertical: Modwheel, 3 zones

	C1	C#1	D1	D#1	E1	F1	F#1	G1	G#1	A1	A#1	B1
slow gliss.	C	C#	D	D#	E	F	F#	G	G#	A	A#	B
medium gliss.	C	C#	D	D#	E	F	F#	G	G#	A	A#	B
fast gliss.	C	C#	D	D#	E	F	F#	G	G#	A	A#	B

05 HA1 Gliss Minor-slow**Samples: 248****RAM: 15 MB**

Glissandos, slow

C to B minor

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
slow gliss.	C	C#	D	D#	E	F	F#	G	G#	A	A#	B

06 HA1 Gliss Minor-medium**Samples: 248 RAM: 15 MB**

Glissandos, medium speed

C to B minor

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
medium gliss.	C	C#	D	D#	E	F	F#	G	G#	A	A#	B

07 HA1 Gliss Minor-fast**Samples: 356 RAM: 22 MB**

Glissandos, fast

C to B minor

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
fast gliss.	C	C#	D	D#	E	F	F#	G	G#	A	A#	B

08 HA1 Gliss Minor-All**Samples: 852 RAM: 53 MB**

Glissandos

Slow/medium/fast

C to B minor

AB switch up/down

Matrix switches: Horizontal: Keyswitches, C1–B1 Vertical: Modwheel, 3 zones

	C1	C#1	D1	D#1	E1	F1	F#1	G1	G#1	A1	A#1	B1
slow gliss.	C	C#	D	D#	E	F	F#	G	G#	A	A#	B
medium gliss.	C	C#	D	D#	E	F	F#	G	G#	A	A#	B
fast gliss.	C	C#	D	D#	E	F	F#	G	G#	A	A#	B

09 HA1 Gliss 7V-Major-slow**Samples: 190 RAM: 11 MB**

4-note glissandos, var. 1-5

Major, slow

AB switch up/down

Matrix switches: Horizontal: Keyswitches, C1–E1

	C1	C#1	D1	D#1	E1
slow gliss.	var. 1	var. 2	var. 3	var. 4	var. 5

10 HA1 Gliss 7V-Major-medium**Samples: 190 RAM: 11 MB**

4-note glissandos, var. 1-5

Major, medium

AB switch up/down

Matrix switches: Horizontal: Keyswitches, C1–E1

	C1	C#1	D1	D#1	E1
medium gliss.	var. 1	var. 2	var. 3	var. 4	var. 5

11 HA1 Gliss 7V-Major-fast**Samples: 280****RAM: 17 MB**

4-note glissandos, var. 1-5

Major, fast

AB switch up/down

Matrix switches: Horizontal: Keyswitches, C1–E1

	C1	C#1	D1	D#1	E1
fast gliss.	var. 1	var. 2	var. 3	var. 4	var. 5

12 HA1 Gliss 7V-Major-All**Samples: 660****RAM: 41 MB**

4-note glissandos, var. 1-5

Major, slow/medium/fast

AB switch up/down

Matrix switches: Horizontal: Keyswitches, C1–E1 Vertical: Modwheel, 3 zones

	C1	C#1	D1	D#1	E1
slow gliss.	var. 1	var. 2	var. 3	var. 4	var. 5
medium gliss.	var. 1	var. 2	var. 3	var. 4	var. 5
fast gliss.	var. 1	var. 2	var. 3	var. 4	var. 5

13 HA1 Gliss 7V-Minor-slow**Samples: 190****RAM: 11 MB**

4-note glissandos, var. 1-5

Minor, slow

AB switch up/down

Matrix switches: Horizontal: Keyswitches, C1–E1

	C1	C#1	D1	D#1	E1
slow gliss.	var. 1	var. 2	var. 3	var. 4	var. 5

14 HA1 Gliss 7V-Minor-medium**Samples: 190****RAM: 11 MB**

4-note glissandos, var. 1-5

Minor, medium

AB switch up/down

Matrix switches: Horizontal: Keyswitches, C1–E1

	C1	C#1	D1	D#1	E1
medium gliss.	var. 1	var. 2	var. 3	var. 4	var. 5

15 HA1 Gliss 7V-Minor-fast**Samples: 280****RAM: 17 MB**

4-note glissandos, var. 1-5

Minor, fast

AB switch up/down

Matrix switches: Horizontal: Keyswitches, C1–E1

	C1	C#1	D1	D#1	E1
fast gliss.	var. 1	var. 2	var. 3	var. 4	var. 5

16 HA1 Gliss 7V-Minor-All**Samples: 660****RAM: 41 MB**

4-note glissandos, var. 1-5

Minor, slow/medium/fast

AB switch up/down

Matrix switches: Horizontal: Keyswitches, C1–E1 Vertical: Modwheel, 3 zones

	C1	C#1	D1	D#1	E1
slow gliss.	var. 1	var. 2	var. 3	var. 4	var. 5
medium gliss.	var. 1	var. 2	var. 3	var. 4	var. 5
fast gliss.	var. 1	var. 2	var. 3	var. 4	var. 5

17 HA1 Gliss 7Diminished-slow**Samples: 114****RAM: 7 MB**

4-note glissandos

Diminished (C/C#/D), slow

AB switch up/down

Matrix switches: Horizontal: Keyswitches, C1–D1

	C1	C#1	D1
slow gliss.	C	C#	D

18 HA1 Gliss 7Diminished-medium**Samples: 114****RAM: 7 MB**

4-note glissandos

Diminished (C/C#/D), medium

AB switch up/down

Matrix switches: Horizontal: Keyswitches, C1–D1

	C1	C#1	D1
medium gliss.	C	C#	D

19 HA1 Gliss 7Diminished-fast**Samples: 168****RAM: 10 MB**

4-note glissandos

Diminished (C/C#/D), fast

AB switch up/down

Matrix switches: Horizontal: Keyswitches, C1–D1

	C1	C#1	D1
fast gliss.	C	C#	D

20 HA1 Gliss 7Diminished-All**Samples: 396****RAM: 24 MB**

4-note glissandos

Diminished (C/C#/D)

Slow/medium/fast

AB switch up/down

Matrix switches: Horizontal: Keyswitches, C1–D1 Vertical: Modwheel, 3 zones

	C1	C#1	D1
slow gliss.	C	C#	D
medium gliss.	C	C#	D
fast gliss.	C	C#	D

21 HA1 Gliss Pentatonic-slow**Samples: 38****RAM: 2 MB**

5-note glissandos, var. 1-3

Pentatonic, slow

AB switch up/down

Matrix switches: Horizontal: Keyswitches, C1–D1

	C1	C#1	D1
slow gliss.	var. 1	var. 2	var. 3

22 HA1 Gliss Pentatonic-medium**Samples: 38****RAM: 2 MB**

5-note glissandos, var. 1-3

Pentatonic, medium

AB switch up/down

Matrix switches: Horizontal: Keyswitches, C1–D1

	C1	C#1	D1
medium gliss.	var. 1	var. 2	var. 3

23 HA1 Gliss Pentatonic-fast**Samples: 56****RAM: 3 MB**

5-note glissandos, var. 1-3

Pentatonic, fast

AB switch up/down

Matrix switches: Horizontal: Keyswitches, C1–D1

	C1	C#1	D1
fast gliss.	var. 1	var. 2	var. 3

24 HA1 Gliss Pentatonic-All**Samples: 132****RAM: 8 MB**

5-note glissandos, var. 1-3

Pentatonic

Slow/medium/fast

AB switch up/down

Matrix switches: Horizontal: Keyswitches, C1–D1 Vertical: Modwheel, 3 zones

	C1	C#1	D1
slow gliss.	var. 1	var. 2	var. 3
medium gliss.	var. 1	var. 2	var. 3
fast gliss.	var. 1	var. 2	var. 3

25 HA1 Gliss Whole-slow**Samples: 40****RAM: 2 MB**

6-note glissandos

Whole tone (C/C#), slow

AB switch up/down

	C1	C#1
slow gliss.	C	C#

26 HA1 Gliss Whole-medium**Samples: 40****RAM: 2 MB**

6-note glissandos

Whole tone (C/C#), medium

AB switch up/down

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

	C1	C#1
medium gliss.	C	C#

27 HA1 Gliss Whole-fast**Samples: 66****RAM: 4 MB**

6-note glissandos
 Whole tone (C/C#), fast
 AB switch up/down

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

	C1	C#1
fast gliss.	C	C#

28 HA1 Gliss Whole-All**Samples: 146****RAM: 9 MB**

6-note glissandos
 Whole tone (C/C#)
 Slow/medium/fast
 AB switch up/down

Matrix switches: Horizontal: Keyswitches, C1–C#1 Vertical: Modwheel, 3 zones

	C1	C#1
slow gliss.	C	C#
medium gliss.	C	C#
fast gliss.	C	C#

Matrix - LEVEL 2 C - Arpeggios**31 HA1 Arp-3 Major-slow****Samples: 150****RAM: 9 MB**

3-note arpeggios, slow, up
 C to B major

Matrix switches: Horizontal: Keyswitches, C1–B1

	C1	C#1	D1	D#1	E1	F1	F#1	G1	G#1	A1	A#1	B1
slow arp.	C	C#	D	D#	E	F	F#	G	G#	A	A#	B

32 HA1 Arp-3 Major-fast**Samples: 150****RAM: 9 MB**

3-note arpeggios, fast, up
 C to B major

Matrix switches: Horizontal: Keyswitches, C1–B1

	C1	C#1	D1	D#1	E1	F1	F#1	G1	G#1	A1	A#1	B1
fast arp.	C	C#	D	D#	E	F	F#	G	G#	A	A#	B

33 HA1 Arp-3 Major-straight**Samples: 150****RAM: 9 MB**

3-note arpeggios, straight, up
 C to B major

Matrix switches: Horizontal: Keyswitches, C1–B1

	C1	C#1	D1	D#1	E1	F1	F#1	G1	G#1	A1	A#1	B1
straight arp.	C	C#	D	D#	E	F	F#	G	G#	A	A#	B

34 HA1 Arp-3 Major-All**Samples: 450 RAM: 28 MB**

3-note arpeggios, up
 Slow/medium/straight
 C to B major

Matrix switches: Horizontal: Keyswitches, C1–B1 Vertical: Modwheel, 3 zones

	C1	C#1	D1	D#1	E1	F1	F#1	G1	G#1	A1	A#1	B1
slow arp.	C	C#	D	D#	E	F	F#	G	G#	A	A#	B
fast arp.	C	C#	D	D#	E	F	F#	G	G#	A	A#	B
straight arp.	C	C#	D	D#	E	F	F#	G	G#	A	A#	B

35 HA1 Arp-3 Minor-slow**Samples: 152 RAM: 9 MB**

3-note arpeggios, slow, up
 C to B minor

Matrix switches: Horizontal: Keyswitches, C1–B1

	C1	C#1	D1	D#1	E1	F1	F#1	G1	G#1	A1	A#1	B1
slow arp.	C	C#	D	D#	E	F	F#	G	G#	A	A#	B

36 HA1 Arp-3 Minor-fast**Samples: 152 RAM: 9 MB**

3-note arpeggios, fast, up
 C to B minor

Matrix switches: Horizontal: Keyswitches, C1–B1

	C1	C#1	D1	D#1	E1	F1	F#1	G1	G#1	A1	A#1	B1
fast arp.	C	C#	D	D#	E	F	F#	G	G#	A	A#	B

37 HA1 Arp-3 Minor-straight**Samples: 152 RAM: 9 MB**

3-note arpeggios, straight, up
 C to B minor

Matrix switches: Horizontal: Keyswitches, C1–B1

	C1	C#1	D1	D#1	E1	F1	F#1	G1	G#1	A1	A#1	B1
straight arp.	C	C#	D	D#	E	F	F#	G	G#	A	A#	B

38 HA1 Arp-3 Minor-All**Samples: 456 RAM: 28 MB**

3-note arpeggios, up
 Slow/medium/straight
 C to B minor

Matrix switches: Horizontal: Keyswitches, C1–B1

	C1	C#1	D1	D#1	E1	F1	F#1	G1	G#1	A1	A#1	B1
slow arp.	C	C#	D	D#	E	F	F#	G	G#	A	A#	B
fast arp.	C	C#	D	D#	E	F	F#	G	G#	A	A#	B
straight arp.	C	C#	D	D#	E	F	F#	G	G#	A	A#	B

39 HA1 Arp-3 Special-All**Samples: 456 RAM: 28 MB**

3-note arpeggios, up
 Slow/medium/straight
 Diminished, augmented

Matrix switches: Horizontal: Keyswitches, C1–C#1 Vertical: Modwheel, 3 zones

	C1	C#1
slow arp.	diminished	augmented
fast arp.	%	%
straight arp.	%	%

41 HA1 Arp-4 Major-slow**Samples: 138 RAM: 8 MB**

4-note arpeggios, slow, up
 C to B major

Matrix switches: Horizontal: Keyswitches, C1–B1

	C1	C#1	D1	D#1	E1	F1	F#1	G1	G#1	A1	A#1	B1
slow arp.	C	C#	D	D#	E	F	F#	G	G#	A	A#	B

42 HA1 Arp-4 Major-fast**Samples: 138 RAM: 8 MB**

4-note arpeggios, fast, up
 C to B major

Matrix switches: Horizontal: Keyswitches, C1–B1

	C1	C#1	D1	D#1	E1	F1	F#1	G1	G#1	A1	A#1	B1
fast arp.	C	C#	D	D#	E	F	F#	G	G#	A	A#	B

43 HA1 Arp-4 Major-straight**Samples: 138 RAM: 8 MB**

4-note arpeggios, straight, up
 C to B major

Matrix switches: Horizontal: Keyswitches, C1–B1

	C1	C#1	D1	D#1	E1	F1	F#1	G1	G#1	A1	A#1	B1
straight arp.	C	C#	D	D#	E	F	F#	G	G#	A	A#	B

44 HA1 Arp-4 Major-All**Samples: 414 RAM: 25 MB**

4-note arpeggios, up
 Slow/medium/straight
 C to B major

Matrix switches: Horizontal: Keyswitches, C1–B1 Vertical: Modwheel, 3 zones

	C1	C#1	D1	D#1	E1	F1	F#1	G1	G#1	A1	A#1	B1
slow arp.	C	C#	D	D#	E	F	F#	G	G#	A	A#	B
fast arp.	C	C#	D	D#	E	F	F#	G	G#	A	A#	B
straight arp.	C	C#	D	D#	E	F	F#	G	G#	A	A#	B

45 HA1 Arp-4 Minor-slow**Samples: 138 RAM: 8 MB**

4-note arpeggios, slow, up
 C to B minor

Matrix switches: Horizontal: Keyswitches, C1–B1

	C1	C#1	D1	D#1	E1	F1	F#1	G1	G#1	A1	A#1	B1
slow arp.	C	C#	D	D#	E	F	F#	G	G#	A	A#	B

46 HA1 Arp-4 Minor-fast**Samples: 138 RAM: 8 MB**

4-note arpeggios, fast, up
C to B minor

Matrix switches: Horizontal: Keyswitches, C1–B1

	C1	C#1	D1	D#1	E1	F1	F#1	G1	G#1	A1	A#1	B1
fast arp.	C	C#	D	D#	E	F	F#	G	G#	A	A#	B

47 HA1 Arp-4 Minor-straight**Samples: 138 RAM: 8 MB**

4-note arpeggios, straight, up
C to B minor

Matrix switches: Horizontal: Keyswitches, C1–B1

	C1	C#1	D1	D#1	E1	F1	F#1	G1	G#1	A1	A#1	B1
straight arp.	C	C#	D	D#	E	F	F#	G	G#	A	A#	B

48 HA1 Arp-4 Minor-All**Samples: 414 RAM: 25 MB**

4-note arpeggios, up
Slow/medium/straight
C to B minor

Matrix switches: Horizontal: Keyswitches, C1–B1 Vertical: Modwheel, 3 zones

	C1	C#1	D1	D#1	E1	F1	F#1	G1	G#1	A1	A#1	B1
slow arp.	C	C#	D	D#	E	F	F#	G	G#	A	A#	B
fast arp.	C	C#	D	D#	E	F	F#	G	G#	A	A#	B
straight arp.	C	C#	D	D#	E	F	F#	G	G#	A	A#	B

49 HA1 Arp-4 Special-All**Samples: 426 RAM: 26 MB**

4-note arpeggios, up
Slow/medium/straight
Diminished, augmented

Matrix switches: Horizontal: Keyswitches, C1–C#1 Vertical: Modwheel, 3 zones

	C1	C#1
slow arp.	diminished	augmented
fast arp.	%	%
straight arp.	%	%

Presets**HA1 VSL Preset Level 1****Samples: 1044 RAM: 65 MB**

L1 HA1_Articulation_Combi
L1 HA1_Gliss Major-medium
L1 HA1_Gliss Special-medium
Keyswitches: A7, B7, C8

HA1 VSL Preset Level 2**Samples: 5948 RAM: 371 MB**

O1 HA1_Articulation_Combi
Glissandos - all: Major, minor, 4-note major and minor, diminished, pentatonic, and whole tone
Arpeggios - all: major, minor, diminished and augmented
Keyswitches: C7–A#7

Harp II Standard Library

Patches

02D Harp 2

Single notes, normal and muted
 Harmonics
 Bisbigliando

01 BASIC ARTICULATIONS

Single notes: Normal, muted, harmonics, bisbigliando

01 HA2_normal

Range: B0–A7

Samples: 480

RAM: 30 MB

Single notes, sustained
 3 velocity layers: 0–55 p; 56–108 mf; 109–127 f
 4 Alternations

02 HA2_mute

Range: B0–A7

Samples: 240

RAM: 15 MB

Single notes, muted
 3 velocity layers: 0–55 p; 56–108 mf; 109–127 f
 2 Alternations

06 HA2_flageolette

Range: G3–C7

Samples: 74

RAM: 4 MB

Harmonics or flageolet tones
 2 velocity layers: 0–88 p; 89–127 f
 2 Alternations

08 HA2_bisbigliando

Range: A1–G6

Samples: 172

RAM: 10 MB

Bisbigliando or 'whispering', a sound effect created by soft tremolo play on the harp.
 2 velocity layers: 0–88 p; 89–127 f
 Release samples

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

02D Harp 2

DL-Matrix HA2 Articulation Combi

Samples: 966

RAM: 60 MB

Single notes: Normal, muted, flageolet, and bisbigliando

Matrix switches: Horizontal: Modwheel, 4 zones

	H1	H2	H3	H4
V1	normal	muted	flageolet	bisbigliando

Presets

02D Harp 2

Harp 2

Samples: 966

RAM: 60 MB

Matrix: L1 HA2 Articulation Combi

Harp II Full Library

Patches

01 BASIC ARTICULATIONS



Single notes, normal, muted, and damped
 Près de la table
 Played with fingernails
 Harmonics
 Pedal glissandos
 Bisbigliando

01 HA2_normal	Range: B0–A7	Samples: 480	RAM: 30 MB
Single notes, sustained 3 velocity layers: 0–55 p; 56–108 mf; 109–127 f 4 Alternations			
02 HA2_mute	Range: B0–A7	Samples: 240	RAM: 15 MB
Single notes, muted 3 velocity layers: 0–55 p; 56–108 mf; 109–127 f 2 Alternations			
03 HA2_damp	Range: A#1–G6	Samples: 108	RAM: 6 MB
Single notes, damped 2 velocity layers: 0–88 p; 89–127 f 2 Alternations			
04 HA2_pres-de-la-table	Range: A1–A7	Samples: 138	RAM: 8 MB
Près-de-la-table The strings are plucked near the resonating body of the harp, thus giving it a sharper, 'drier' sound. 2 velocity layers: 0–88 p; 89–127 f 2 Alternations			
05 HA2_nail	Range: B0–A7	Samples: 160	RAM: 10 MB
Played with the fingernails 2 velocity layers: 0–88 p; 89–127 f 2 Alternations			
06 HA2_flageolette	Range: G3–C7	Samples: 74	RAM: 4 MB
Harmonics or flageolet tones 2 velocity layers: 0–88 p; 89–127 f 2 Alternations			
07 HA2_pedal-gliss	Range: C1–G#7	Samples: 75	RAM: 4 MB
Pedal glissando 1 velocity layer: 0–127 f 2 Alternations			

08 HA2_bisbigliando	Range: A1–G6	Samples: 172	RAM: 10 MB
Bisbigliando or 'whispering', a sound effect created by soft tremolo play on the harp. 2 velocity layers: 0–88 p; 89–127 f Release samples			
11 HA2_normal+RS-mute	Range: B0–A7	Samples: 720	RAM: 45 MB
Single notes, normal with muted release samples 3 velocity layers: 0–55 p; 56–108 mf; 109–127 f Release samples 4 Alternations AB switch: release volume high/low			
12 HA2_normal+RS-ped-gl	Range: B0–A7	Samples: 555	RAM: 34 MB
Single notes, normal with pedal glissando release samples 3 velocity layers: 0–55 p; 56–108 mf; 109–127 f Release samples 4 Alternations AB switch: release volume high/low			

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 HA2 Articulation Combi

Samples: 966

RAM: 60 MB

Single notes: Normal, muted, flageolet, and bisbigliando

Matrix switches: Horizontal: Modwheel, 4 zones

	H1	H2	H3	H4
V1	normal	muted	flageolet	bisbigliando

Matrix - LEVEL 2

01 HA2 Articulation Combi 1

Samples: 1210

RAM: 75 MB

Single notes: Normal, muted, normal with muted release samples, près-de-la-table, and flageolet

Matrix switches: Horizontal: Modwheel, 5 zones

	H1	H2	H3	H4	H5
V1	normal	muted	norm/mute RS	près-de-la-t.	flageolet

02 HA2 Articulation Combi 2

Samples: 1070

RAM: 66 MB

Single notes: Played with the fingernails, damped, pedal glissando, normal with pedal glissando release samples, bisbigliando

Matrix switches: Horizontal: Modwheel, 5 zones

	H1	H2	H3	H4	H5
V1	fingernails	damped	pedal gliss.	norm/pedal RS	bisbigliando

Presets

HA2 VSL Preset Level 1

Samples: 966

RAM: 60 MB

L1 HA2 Articulation Combi

HA2 VSL Preset Level 2

Samples: 1762

RAM: 110 MB

2 HA2 Articulation Combi 1

02 HA2 Articulation Combi 2

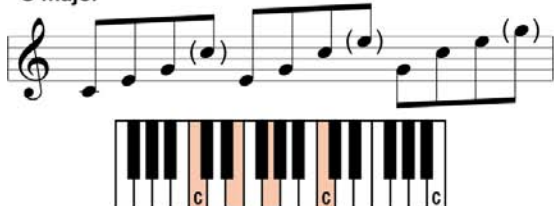
Keyswitches: B7, C8

Appendix

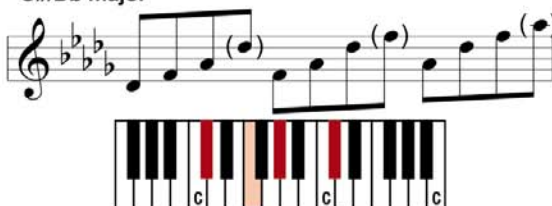
In the following, you will find notations and keyboard layout graphics for major and minor arpeggio, as well as a list of playing ranges for the individual Patches. Notes in brackets signify the fourth tone of 4-note arpeggios.

Arpeggios - major

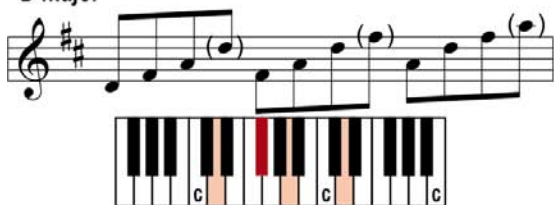
C major



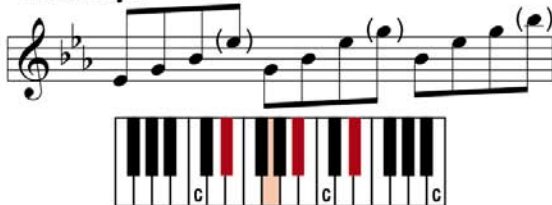
C#/Db major



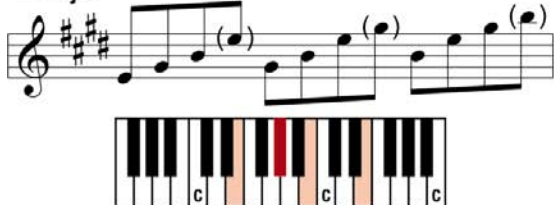
D major



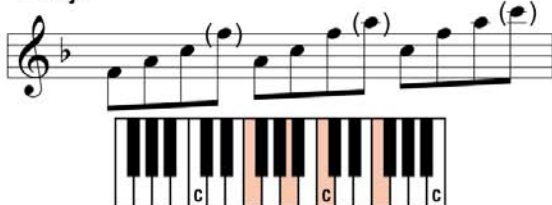
D#/Eb major



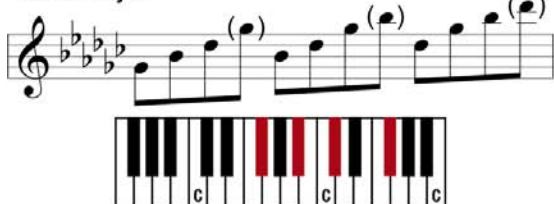
E major



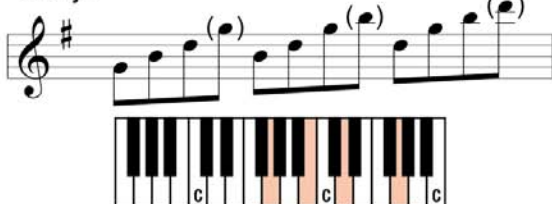
F major



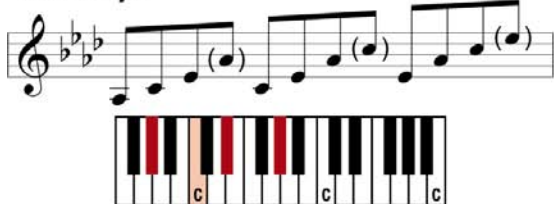
F#/Gb major



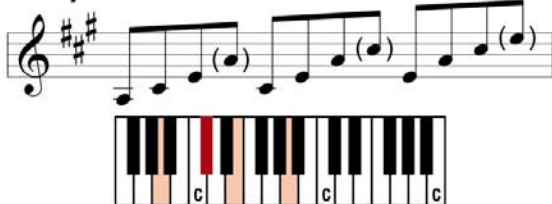
G major



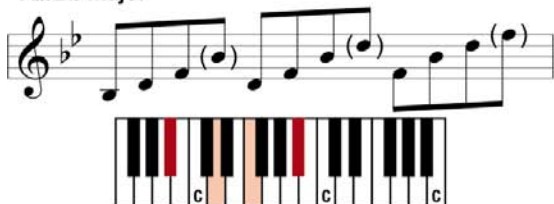
G#/Ab major



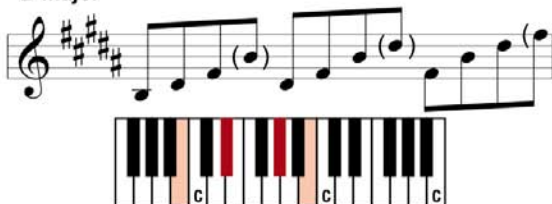
A major



A#/Bb major



B major



Arpeggios - minor

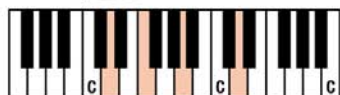
C minor



C#/Db minor



D minor



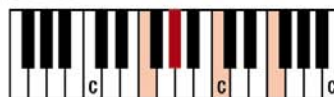
D#/Eb minor



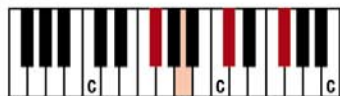
E minor



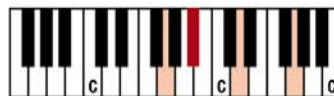
F minor



F#/Gb minor



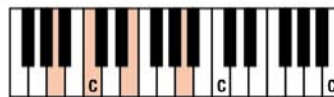
G minor



G#/Ab minor



A minor



A#/Bb minor



B minor



Harp 1 arpeggio ranges

Major 3-note

01 major a3 slow speed play range

01 HA1_3arp-sl_C-ma	C3–C7
02 HA1_3arp-sl_C#-ma	C#3–G#6
03 HA1_3arp-sl_D-ma	D3–A6
04 HA1_3arp-sl_D#-ma	A#2–A#6
05 HA1_3arp-sl_E-ma	B2–B6
06 HA1_3arp-sl_F-ma	C3–A6
07 HA1_3arp-sl_F#-ma	C#3–A#6
08 HA1_3arp-sl_G-ma	B2–B6
09 HA1_3arp-sl_G#-ma	C3–C7
10 HA1_3arp-sl_A-ma	C#3–A6
11 HA1_3arp-sl_A#-ma	D3–A#6
12 HA1_3arp-sl_B-ma	B2–B6

02 major a3 fast speed play range

01 HA1_3arp-fa_C-ma	C3–C7
02 HA1_3arp-fa_C#-ma	C#3–G#6
03 HA1_3arp-fa_D-ma	D3–A6
04 HA1_3arp-fa_D#-ma	A#2–A#6
05 HA1_3arp-fa_E-ma	B2–B6
06 HA1_3arp-fa_F-ma	C3–A6
07 HA1_3arp-fa_F#-ma	C#3–A#6
08 HA1_3arp-fa_G-ma	B2–B6
09 HA1_3arp-fa_G#-ma	C3–C7
10 HA1_3arp-fa_A-ma	C#3–A6
11 HA1_3arp-fa_A#-ma	D3–A#6
12 HA1_3arp-fa_B-ma	B2–B6

03 major a3 straight play range

01 HA1_3arp-st_C-ma	C3–C7
02 HA1_3arp-st_C#-ma	C#3–G#6
03 HA1_3arp-st_D-ma	D3–A6
04 HA1_3arp-st_D#-ma	A#2–A#6
05 HA1_3arp-st_E-ma	B2–B6
06 HA1_3arp-st_F-ma	C3–A6
07 HA1_3arp-st_F#-ma	C#3–A#6
08 HA1_3arp-st_G-ma	B2–B6
09 HA1_3arp-st_G#-ma	C3–C7
10 HA1_3arp-st_A-ma	C#3–A6
11 HA1_3arp-st_A#-ma	D3–A#6
12 HA1_3arp-st_B-ma	B2–B6

Minor 3-note

04 minor a3 slow speed play range

01 HA1_3arp-sl_C-mi	C3–C7
02 HA1_3arp-sl_C#-mi	C#3–G#6
03 HA1_3arp-sl_D-mi	D3–A6
04 HA1_3arp-sl_D#-mi	A#2–A#6
05 HA1_3arp-sl_E-mi	B2–B6
06 HA1_3arp-sl_F-mi	C3–G#6
07 HA1_3arp-sl_F#-mi	C#3–A6
08 HA1_3arp-sl_G-mi	A#2–A#6
09 HA1_3arp-sl_G#-mi	B2–B6
10 HA1_3arp-sl_A-mi	A2–A6
11 HA1_3arp-sl_A#-mi	A#2–A#6
12 HA1_3arp-sl_B-mi	B2–B6

05 minor a3 fast speed play range

01 HA1_3arp-fa_C-mi	C3–C7
02 HA1_3arp-fa_C#-mi	C#3–G#6
03 HA1_3arp-fa_D-mi	D3–A6
04 HA1_3arp-fa_D#-mi	A#2–A#6
05 HA1_3arp-fa_E-mi	B2–B6
06 HA1_3arp-fa_F-mi	C3–G#6
07 HA1_3arp-fa_F#-mi	C#3–A6
08 HA1_3arp-fa_G-mi	A#2–A#6
09 HA1_3arp-fa_G#-mi	B2–B6
10 HA1_3arp-fa_A-mi	A2–A6
11 HA1_3arp-fa_A#-mi	A#2–A#6
12 HA1_3arp-fa_B-mi	B2–B6

06 minor a3 straight play range

01 HA1_3arp-st_C-mi	C3–C7
02 HA1_3arp-st_C#-mi	C#3–G#6
03 HA1_3arp-st_D-mi	D3–A6
04 HA1_3arp-st_D#-mi	A#2–A#6
05 HA1_3arp-st_E-mi	B2–B6
06 HA1_3arp-st_F-mi	C3–G#6
07 HA1_3arp-st_F#-mi	C#3–A6
08 HA1_3arp-st_G-mi	A#2–A#6
09 HA1_3arp-st_G#-mi	B2–B6
10 HA1_3arp-st_A-mi	A2–A6
11 HA1_3arp-st_A#-mi	A#2–A#6
12 HA1_3arp-st_B-mi	B2–B6

Major 4-note**01 major a4 slow speed play range**

01 HA1_4arp-sl_C-ma	C3–G6
02 HA1_4arp-sl_C#-ma	C#3–F6
03 HA1_4arp-sl_D-ma	D3–F#6
04 HA1_4arp-sl_D#-ma	A#2–G6
05 HA1_4arp-sl_E-ma	B2–G#6
06 HA1_4arp-sl_F-ma	C3–F6
07 HA1_4arp-sl_F#-ma	C#3–F#6
08 HA1_4arp-sl_G-ma	B2–G6
09 HA1_4arp-sl_G#-ma	C3–G#6
10 HA1_4arp-sl_A-ma	A3–C#7
11 HA1_4arp-sl_A#-ma	A#3–D7
12 HA1_4arp-sl_B-ma	B2–F#6

02 major a4 fast speed play range

01 HA1_4arp-fa_C-ma	C3–G6
02 HA1_4arp-fa_C#-ma	C#3–F6
03 HA1_4arp-fa_D-ma	D3–F#6
04 HA1_4arp-fa_D#-ma	A#2–G6
05 HA1_4arp-fa_E-ma	B2–G#6
06 HA1_4arp-fa_F-ma	C3–F6
07 HA1_4arp-fa_F#-ma	C#3–F#6
08 HA1_4arp-fa_G-ma	B2–G6
09 HA1_4arp-fa_G#-ma	C3–G#6
10 HA1_4arp-fa_A-ma	A3–C#7
11 HA1_4arp-fa_A#-ma	A#3–D7
12 HA1_4arp-fa_B-ma	B2–F#6

03 major a4 straight play range

01 HA1_4arp-st_C-ma	C3–G6
02 HA1_4arp-st_C#-ma	C#3–F6
03 HA1_4arp-st_D-ma	D3–F#6
04 HA1_4arp-st_D#-ma	A#2–G6
05 HA1_4arp-st_E-ma	B2–G#6
06 HA1_4arp-st_F-ma	C3–F6
07 HA1_4arp-st_F#-ma	C#3–F#6
08 HA1_4arp-st_G-ma	B2–G6
09 HA1_4arp-st_G#-ma	C3–G#6
10 HA1_4arp-st_A-ma	A3–C#7
11 HA1_4arp-st_A#-ma	A#3–D7
12 HA1_4arp-st_B-ma	B2–F#6

Minor 4-note**04 minor a4 slow speed play range**

01 HA1_4arp-sl_C-mi	C3–G6
02 HA1_4arp-sl_C#-mi	C#3–E6
03 HA1_4arp-sl_D-mi	D3–F6
04 HA1_4arp-sl_D#-mi	A#2–F#6
05 HA1_4arp-sl_E-mi	B2–G6
06 HA1_4arp-sl_F-mi	C3–F6
07 HA1_4arp-sl_F#-mi	C#3–F#6
08 HA1_4arp-sl_G-mi	A#2–G6
09 HA1_4arp-sl_G#-mi	B2–G#6
10 HA1_4arp-sl_A-mi	C3–E6
11 HA1_4arp-sl_A#-mi	C#3–F6
12 HA1_4arp-sl_B-mi	B2–F#6

05 minor a4 fast speed play range

01 HA1_4arp-fa_C-mi	C3–G6
02 HA1_4arp-fa_C#-mi	C#3–E6
03 HA1_4arp-fa_D-mi	D3–F6
04 HA1_4arp-fa_D#-mi	A#2–F#6
05 HA1_4arp-fa_E-mi	B2–G6
06 HA1_4arp-fa_F-mi	C3–F6
07 HA1_4arp-fa_F#-mi	C#3–F#6
08 HA1_4arp-fa_G-mi	A#2–G6
09 HA1_4arp-fa_G#-mi	B2–G#6
10 HA1_4arp-fa_A-mi	C3–E6
11 HA1_4arp-fa_A#-mi	C#3–F6
12 HA1_4arp-fa_B-mi	B2–F#6

06 minor a4 straight play range

01 HA1_4arp-st_C-mi	C3–G6
02 HA1_4arp-st_C#-mi	C#3–E6
03 HA1_4arp-st_D-mi	D3–F6
04 HA1_4arp-st_D#-mi	A#2–F#6
05 HA1_4arp-st_E-mi	B2–G6
06 HA1_4arp-st_F-mi	C3–F6
07 HA1_4arp-st_F#-mi	C#3–F#6
08 HA1_4arp-st_G-mi	A#2–G6
09 HA1_4arp-st_G#-mi	B2–G#6
10 HA1_4arp-st_A-mi	C3–E6
11 HA1_4arp-st_A#-mi	C#3–F6
12 HA1_4arp-st_B-mi	B2–F#6