



VIENNA SYMPHONIC LIBRARY

Vienna Instruments Concert Guitar

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Introduction

Welcome, and thank you for purchasing the Vienna Symphonic Library's Concert Guitar. This document contains the mapping information for this Vienna Instruments Collection. You will find in it a comprehensive survey of the articulations/Patches for the Collection's Standard and Extended contents, a listing of abbreviations, and the mapping list proper which gives details for every Patch, Matrix, and Preset.

We put a lot of effort into recording these concert guitar samples and processing them for you to get a natural sounding virtual instrument. Apart from single notes in various articulations, hammer-ons, trills, and bends, the Collection also contains our famous Interval and Repetition Performances for reproducing authentic legatos and tone repetitions, as well as several frequently used effect techniques and three- and four-key chords for every major and minor scale from C to B.

We wish you lots of fun and good success with the Vienna Concert Guitar!

The Vienna Symphonic Library Team

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.

The 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. The Patch information also lists the velocity layers in detail.

A/B switching normally is set to A0 for upward/crescendo, and B0 for downward/diminuendo. The Concert Guitar also employs A/B switches for other uses, e.g., for switching between arpeggio and rasguando chords or different types of release.

Interval performances

Interval performances are one of the outstanding features of our Vienna Instruments Collections. 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 also used for other articulations like the strings' portamento (which are also included in the Special Edition), marcato, or détaché and spiccato.

The interval performances also contain 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 naturally, it's mixing legato and repetitions 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.

Repetition performances

Unlike our fast repetitions, which only can be played at the speed they were recorded at and have a fixed number of 9 repeated notes, repetition performances allow you to cover a wide area of speeds from slow legato to very fast staccato. Like the legatos, the repetitions were recorded in one go and then cut up into discreet samples. The Vienna Instrument joins them again when you play, so that you have an unlimited supply of repetitions. Dynamics repetitions, however, are still limited in number (legatos and some portatos 5, other portatos and staccatos 9) since you cannot get louder or softer endlessly ...

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.

Keyswitches reserve special keys on the keyboard for switching between different articulations, and are normally used for horizontal Matrix switching. If you want to create matrices of your own, please remember that the keyswitching area should not overlap with the articulations' play range; if it does, you won't be able to play those notes. Also, we recommend using a dedicated keyswitch range for all your Matrices.

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 101–112 instead of keyboard notes.

Articulations

	Level 1 (Standard) content	Level 2 (Extended) content
151 Concert Guitar		
01 SHORT + LONG NOTES	Staccato normal and Bartók Sustained and ponticello without and with vibrato Harmonics artificial and natural	Staccato étouffé Flautando with and without vibrato Bartók (snapped) with and without vibrato Étouffé Tambora
02 HAMMER		Hammer-ons D, E, A, d, g, b, e strings All strings combination
03 TRILLS & CO	Trills, half and whole tone	Tremolo, short Bends, half tone, up and down
04 FX	Scratches combination	Golpe Harp effects Scratches on E, A, D Muted chords
10 PERF INTERVAL	Legato normal Legato sul ponticello Glissando Hammer-ons and pull-offs	
11 PERF REPETITION	Legato slow Legato fast, var. 1 Staccato	Legato medium Legato fast, var. 2 Ponticello medium and fast Crescendo and diminuendo

Level 1 (Standard) content		Level 2 (Extended) content
12 FAST REPETITION		Fast repetitions Normal Ponticello Crescendo and diminuendo
13 CHORDS on 4-6 Strings/ 01 Major 3 keys		3-key chords, C to B major Battente Pulled Rasguando short Arpeggio/rasguando long
13 CHORDS on 4-6 Strings/ 02 Major 4 keys		4-key chords, C to B major Battente Pulled Rasguando short Arpeggio/rasguando long
13 CHORDS on 4-6 Strings/ 03 Minor 3 keys		3-key chords, C to B minor Battente Pulled Rasguando short Arpeggio/rasguando long
13 CHORDS on 4-6 Strings/ 04 Minor 4 keys		4-key chords, C to B minor Battente Pulled Rasguando short Arpeggio/rasguando long
13 CHORDS on 4-6 Strings/ 05 Chromatic Mapping		Chords in chromatic progression Battente, pulled, rasguando short, and arpeggio/long rasguando Major, minor, dominant 7, major 7, and minor 7 chords on 6, 5, and 4 strings Diminished 7, major 7 with augmented 5th, minor 7 with diminished 5th, and minor with major 7th chords Sus4 and 7sus4, with the E, A, and D strings as base
14 CHORDS on 3 Strings		Chords played on 3 strings in chromatic progression Battente, pulled, and rasguando short Major base, 1st inversion, 2nd inversion, with 8ve Minor base, 1st inversion, 2nd inversion Minor 7, dominant 7, diminished 7, sus4

Abbreviations

Abbreviation	Meaning	Abbreviation	Meaning
150, 160, ...	150, 160, ... BPM (beats per minute)	me	medium
all	combination of all Patches of a kind	min	minor
arp	arpeggio	nat	natural (harmonics)
art	artificial (harmonics)	noVib	without vibrato
batt	battente (strummed)	perf-rep	repetition performance
cre	crescendo	pont	sul ponticello
cre5, cre9	crescendo, 5/9 repetitions	por	portato
dim	diminuendo, diminished	pull	pulled (plucked)
dim5, dim9	diminuendo, 5/9 repetitions	rasg	rasguando or rasgueado
dyn	dynamics (crescendo and diminuendo)	RS	release sample
dyn5, dyn9	dynamics, 5/9 repetitions	sA	soft attack
fa	fast	sl	slow
fast-rep	fast repetitions	sta, stac	staccato
leg	legato	str	strong
lo	long	sus	sustained
maj	major	Vib	with (normal) vibrato
		XF	cell crossfade Matrix

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.

151 Concert-Guitar

Patches

01 SHORT + LONG NOTES Range: D2–C6

Level 1: Staccato normal and Bartók
Sustained and ponticello without and with vibrato
Harmonics artificial and natural

Level 2: Staccato étouffé
Flautando with and without vibrato
Bartók (snapped) with and without vibrato
Étouffé
Tambora

01 CG_staccato Samples: 192 RAM: 12 MB Level 1

Staccato
4 velocity layers: 0–55 p; 56–88 mf; 89–118 f; 119–127 ponticello (ff)
2 Alternations

02 CG_staccato_bartok Samples: 93 RAM: 5 MB Level 1

Bartók staccato (snapped)
2 velocity layers: 0–88 p; 89–127 f

03 CG_staccato_etouffe Range: D2–E5 Samples: 144 RAM: 9 MB Level 2

Staccato, étouffé (choked)
2 velocity layers: 0–88 p; 89–127 f
2 Alternations

11 CG_sustain_Vib Samples: 315 RAM: 19 MB Level 1

Sustained, with vibrato
3 velocity layers: 0–55 p; 56–108 mf; 109–127 f
Release samples
2 Alternations
AB switch: release mute finger/hand

12 CG_sustain_noVib Samples: 174 RAM: 10 MB Level 1

Sustained, without vibrato
3 velocity layers: 0–55 p; 56–108 mf; 109–127 f
Release samples
AB switch: release mute finger/hand

13 CG_flautando_Vib Samples: 127 RAM: 7 MB Level 2

Flautando, with vibrato
1 velocity layer
Release samples
2 Alternations
AB switch: release mute finger/hand

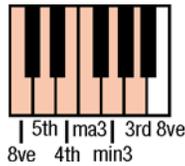
14 CG_flautando_noVib		Samples: 80	RAM: 5 MB	Level 2
Flautando, without vibrato 1 velocity layer Release samples AB switch: release mute finger/hand				
15 CG_ponticello_Vib		Samples: 127	RAM: 7 MB	Level 1
Sul ponticello (played near the bridge), with vibrato 1 velocity layer Release samples 2 Alternations AB switch: release mute finger/hand				
16 CG_ponticello_noVib		Samples: 80	RAM: 5 MB	Level 1
Ponticello, without vibrato 1 velocity layer Release samples AB switch: release mute finger/hand				
17 CG_bartok_Vib		Samples: 221	RAM: 13 MB	Level 2
Bartók (snapped), with vibrato 2 velocity layers: 0–88 p; 89–127 f Release samples 2 Alternations AB switch: release mute finger/hand				
18 CG_bartok_noVib		Samples: 80	RAM: 5 MB	Level 2
Bartók (snapped) without vibrato 1 velocity layer Release samples AB switch: release mute finger/hand				
19 CG_etouffe		Samples: 221	RAM: 13 MB	Level 2
Étouffé ("choked") 2 velocity layers: 0–88 p; 89–127 f Release samples 2 Alternations AB switch: release mute finger/hand				
20 CG_tambora		Samples: 94	RAM: 5 MB	Level 2
Tambora The string and fingerboard are struck with the thumb, giving a subdued sound 1 velocity layer 2 Alternations				
21 CG_harmonics-art	Range: D3–C7	Samples: 80	RAM: 5 MB	Level 1
Harmonics, artificial 1 velocity layer Release samples AB switch: release mute finger/hand				

22 CG_harmonics-nat Range: C1–A7 Samples: 75 RAM: 4 MB [Level 1](#)

Harmonics, natural
 Mapped to white keys only
 1 velocity layer
 Release samples

Mapping:

C: 1st, D: 2nd, E: 3rd, F: 4th, G: 5th, A: 6th harmonic
 C1–A1: D string
 C2–A2: E string
 C3–A3: A string
 C4–A4: d string
 C5–A5: g string
 C6–A6: b string
 C7–A7: e string



02 HAMMER

Level 2: Hammer-ons
 D, E, A, d, g, b, e strings
 All strings combination

Hammer-ons: an effect where the string is partitioned by the left-hand fingers so that both parts of the string sound.

01 CG_hammer_D-string Range: F2–G#3 Samples: 63 RAM: 3 MB [Level 2](#)

Hammer-ons on the D string, mezzoforte
 2 velocity layers: 0–108 long; 109–127 short
 Release samples
 AB switch: release mute finger/hand

02 CG_hammer_E-string Range: G#2–A#3 Samples: 63 RAM: 3 MB [Level 2](#)

Hammer-ons on the E string, mezzoforte
 2 velocity layers: 0–108 long; 109–127 short
 Release samples
 AB switch: release mute finger/hand

03 CG_hammer_A-string Range: C#3–D#4 Samples: 63 RAM: 3 MB [Level 2](#)

Hammer-ons on the A string, mezzoforte
 2 velocity layers: 0–108 long; 109–127 short
 Release samples
 AB switch: release mute finger/hand

04 CG_hammer_d-string Range: F#3–G#4 Samples: 63 RAM: 3 MB [Level 2](#)

Hammer-ons on the d string, mezzoforte
 2 velocity layers: 0–108 long; 109–127 short
 Release samples
 AB switch: release mute finger/hand

05 CG_hammer_g-string	Range: B3–C#5	Samples: 63	RAM: 3 MB	Level 2
Hammer-ons on the g string, mezzoforte 2 velocity layers: 0–108 long; 109–127 short Release samples AB switch: release mute finger/hand				
06 CG_hammer_b-string	Range: D#4–F5	Samples: 63	RAM: 3 MB	Level 2
Hammer-ons on the b string, mezzoforte 2 velocity layers: 0–108 long; 109–127 short Release samples AB switch: release mute finger/hand				
07 CG_hammer_e-string	Range: G#4–A#5	Samples: 63	RAM: 3 MB	Level 2
Hammer-ons on the e string, mezzoforte 2 velocity layers: 0–108 long; 109–127 short Release samples AB switch: release mute finger/hand				
08 CG_hammer_all-strings	Range: F2–A#5	Samples: 115	RAM: 7 MB	Level 2
Hammer-ons on all strings, mezzoforte 2 velocity layers: 0–108 long; 109–127 short Release samples AB switch: release mute finger/hand				
03 TRILLS & CO				
Level 1: Trills, half and whole tone				
Level 2: Tremolo, short Bends, half tone, up and down				
01 CG_trem_short	Range: D2–C6	Samples: 212	RAM: 13 MB	Level 2
Tremolo, short 2 velocity layers: 0–88 p; 89–127 mf Release samples AB switch: release normal/muted				
02 CG_trill_1	Range: D2–F5	Samples: 78	RAM: 4 MB	Level 1
Half tone trills 1 velocity layer: 0–127 mp Release samples				
03 CG_trill_2	Range: D2–F5	Samples: 78	RAM: 4 MB	Level 1
Whole tone trills 1 velocity layer: 0–127 mf Release samples				
04 CG_bend	Range: D2–C#6	Samples: 208	RAM: 13 MB	Level 2
Half tone bends Please note that the upward bends begin at D#2 and the downward bends end at B5 2 velocity layers: 0–88 p; 89–127 f Release samples AB switch: up/down				

04 FX**Level 1:** Scratches combination**Level 2:** Golpe
Harp effects
Scratches on E, A, D
Muted chords**01 CG_FX_harp****Range:** E2–F6**Samples:** 20**RAM:** 1 MB**Level 2**Harp-like effects created by plucking the strings between the nut and the tuners
Single notes on every string (2 variations), and upward and downward chords
1 velocity layer**Mapping:**

Single notes:

E2–F2: low E string, var. 1/2

A2–B2: A string, var. 1/2

D3–E3: D string, var. 1/2

G3–A3: G string, var. 1/2

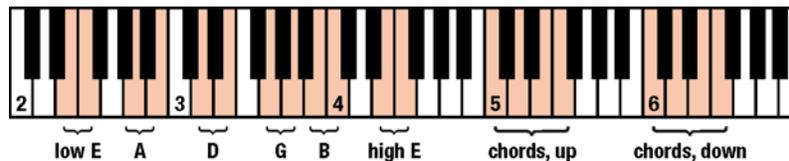
B3–C4: B string, var. 1/2

E4–F4: high E string, var. 1/2

Chords:

C5–F5: upward

C6–F6: downward

**02 CG_FX_golpe****Range:** C2–D6**Samples:** 44**RAM:** 2 MB**Level 2**Golpe: strokes on the top, side, neck, fingerboard, flams and fingernail strokes on the bridge of the guitar, and drum rolls
2 velocity layers: 0–88 p; 89–127 f**Mapping:**

C2–C3: top strokes in 4 different places, var. 1/2

E3–A3: side strokes in 2 places, var. 1/2

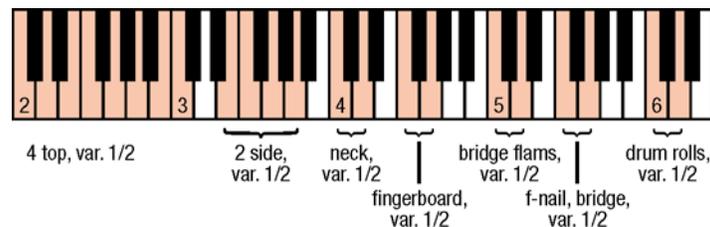
C4–D4: neck stroke, var. 1/2

F4–G4: fingerboard stroke, var. 1/2

C5–D5: bridge flams, var. 1/2

F5–G5: fingernail bridge strokes, var. 1/2

C6–D6: drum rolls, var. 1/2



03 CG_FX_chord-mute

Range: C7–G7

Samples: 20

RAM: 1 MB

Level 2

Muted chords

Battente, pulled, short and long rasguando, arpeggio

2 velocity layers: 0–88 p; 89–127 f

Mapping:

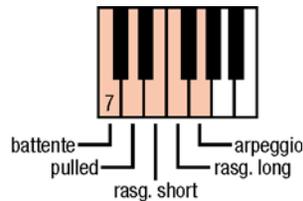
C7: battente

D7: pulled

E7: rasguando, short

F7: rasguando, long

G7: arpeggio

**11 CG_FX_scratch E-string**

Range: C2–A#5

Samples: 32

RAM: 2 MB

Level 2

Scratching on the E string

Slow, long, medium, and short

1 velocity layer

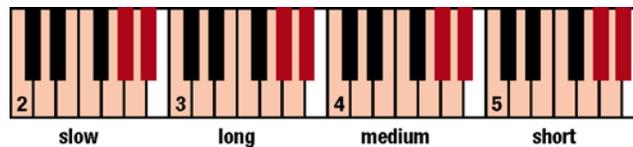
Mapping:

C2–A#2: slow

C3–A#3: long

C4–A#4: medium

C5–A#5: short

**12 CG_FX_scratch A-string**

Range: C2–A#5

Samples: 20

RAM: 1 MB

Level 2

Scratching on the A string

Slow, long, medium, and short

1 velocity layer

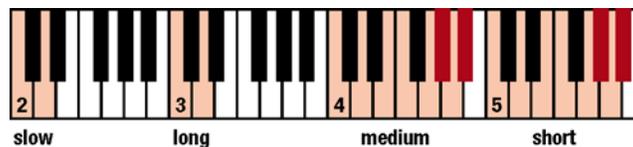
Mapping:

C2–D2: slow

C3–D3: long

C4–A#4: medium

C5–A#5: short



13 CG_FX_scratch D-string

Range: C3-A#5

Samples: 13

RAM: 1 MB

Level 2

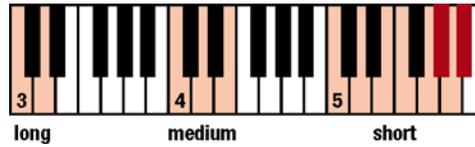
Scratching on the D string
 Long, medium, and short
 1 velocity layer

Mapping:

C3-D3: long

C4-E4: medium

C5-A#5: short

**14 CG_FX_scratch combi**

Range: C6-C8

Samples: 24

RAM: 1 MB

Level 1

Scratching on the E, A, and D strings
 Long, medium, and short
 1 velocity layer

Mapping:

C6-C#6: E, long, var. 1/2

D6-D#6: E, medium, var. 1/2

E6-G6: E, short, var. 1-4

A6-A#6: A, long, var. 1/2

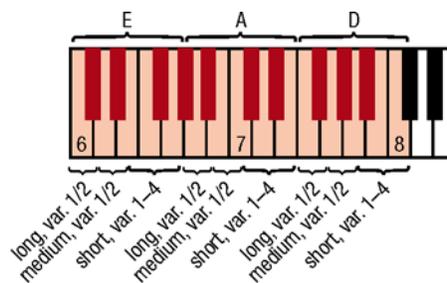
B6-C7: A, medium, var. 1/2

C#7-E7: A, short, var. 1-4

F7-F#7: D, long, var. 1/2

G7-G#7: D, medium, var. 1/2

A7-C8: D, short, var. 1-4



10 PERF INTERVAL**Range: D2–C6**

Level 1: Legato normal
 Legato sul ponticello
 Glissando
 Hammer-ons and pull-offs

01 CG_perf-legato**Samples: 1869 RAM: 116 MB [Level 1](#)**

Legato
 Monophonic
 3 velocity layers: 0–55 p; 56–108 mf; 109–127 f
 Release samples
 AB switch: release mute finger/hand

02 CG_perf-legato_ponticello**Samples: 619 RAM: 38 MB [Level 1](#)**

Legato, sul ponticello
 Monophonic
 1 velocity layer
 Release samples
 AB switch: release mute finger/hand

03 CG_perf-legato_glissando**Samples: 885 RAM: 55 MB [Level 1](#)**

Glissando
 Monophonic
 1 velocity layer: 0–127 mf
 Release samples
 AB switch: release mute finger/hand

04 CG_perf-legato_hammer-pull**Samples: 1377 RAM: 86 MB [Level 1](#)**

Hammer-ons and pull-offs
 Monophonic
 2 velocity layers: 0–108 p; 109–127 f
 Release samples
 AB switch: release mute finger/hand

11 PERF REPETITION**Range: D2–C6**

Level 1: Legato slow
 Legato fast, var. 1
 Staccato

Level 2: Legato medium
 Legato fast, var. 2
 Ponticello medium and fast
 Crescendo and diminuendo

01 CG_perf-rep_leg-sl**Samples: 393 RAM: 24 MB Level 1**

Legato, slow
 3 velocity layers: 0–55 p; 56–108 mf; 109–127 f
 Release samples
 AB switch: release mute finger/hand

02 CG_perf-rep_leg-me**Samples: 681 RAM: 42 MB Level 2**

Legato, medium
 3 velocity layers: 0–55 p; 56–108 mf; 109–127 f
 Release samples
 AB switch: release mute finger/hand

03 CG_perf-rep_leg-fa1**Samples: 681 RAM: 42 MB Level 1**

Legato, fast, var. 1
 3 velocity layers: 0–55 p; 56–108 mf; 109–127 f
 Release samples
 AB switch: release mute finger/hand

04 CG_perf-rep_leg-fa2**Samples: 681 RAM: 42 MB Level 2**

Legato, fast, var. 2
 3 velocity layers: 0–55 pp; 56–108 mf; 109–127 f
 Release samples
 AB switch: release mute finger/hand

05 CG_perf-rep_stac**Samples: 360 RAM: 22 MB Level 1**

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

06 CG_perf-rep_ponticello-me**Samples: 249 RAM: 15 MB Level 2**

Ponticello, medium
 1 velocity layer
 Release samples
 AB switch: release mute finger/hand

07 CG_perf-rep_ponticello-fa**Samples: 249 RAM: 15 MB Level 2**

Ponticello, fast
 1 velocity layer
 Release samples
 AB switch: release mute finger/hand

11 CG_perf-rep_dyn9 **Samples: 432** **RAM: 27 MB** **Level 2**

Crescendo and diminuendo, legato, 9 repetitions
 1 velocity layer
 AB switch: crescendo/diminuendo

12 FAST REPETITION **Range: D2–C6**

Level 2: Fast repetitions
 Normal
 Ponticello
 Crescendo and diminuendo

01 CG_fast-rep_140 (150/160/180/200) **Samples: 168** **RAM: 10 MB** **Level 2**

Staccato, 9 repetitions, 140–160, 180, and 200 BPM
 3 velocity layers: 0–55 p; 56–108 mf; 109–127 f
 Release samples
 AB switch: release normal/muted

11 CG_fast-rep_140_pont (150/160/180/200) **Samples: 72** **RAM: 4 MB** **Level 2**

Sul ponticello, 9 repetitions, 140–160, 180, and 200 BPM
 1 velocity layer
 Release samples
 AB switch: release normal/muted

21 CG_fast-rep_140_dyn (150/160/180/200) **Samples: 72** **RAM: 4 MB** **Level 2**

Crescendo and diminuendo, 9 repetitions, 140–160, 180, and 200 BPM

13 CHORDS on 4-6 Strings

13 CHORDS on 4-6 Strings/01 Major 3 keys

Level 2: 3-key chords, C to B major

Battente

Pulled

Rasguando short

Arpeggio/rasguando long

3-key chords on every note of the scale, C major to B major

Depending on tablature, the chords are played on 4 to 6 strings.

For individual play ranges, please see the appendix.

Mapping:

1.) E2–D#4 features the lower playing positions on the guitar with 3–4 6-string chords and 1–3 5-string chords followed by 4-string chords up to the highest chord.

2.) E4–G5/G#5 (depending on the scale) features higher playing positions, with 6-string chords up to C3, if possible. The lowest of these are the same in playing position 1. They are followed by 5-string chords up to G3. The following 4-string chords are the same as at the 1st playing position.

Here's an illustration of the chords as they are played for C major, with the keys they are mapped to.

The image displays 13 major triads on a guitar staff, organized into four rows. Each chord is represented by a vertical line with dots on the staff indicating the notes. The chords are labeled as follows:

- Row 1: E2, F2, G2, A2, B2, C3, D3
- Row 2: E3, F3, G3, A3, B3, C4, D4
- Row 3: E4, F4, G4, A4, B4, C5, D5
- Row 4: E5, F5, G5

13 CHORDS on 4-6 Strings/01 Major 3 keys/01 Regular - batt**01 CG_C-maj-3_batt (through to B-maj)****Samples: 89****RAM: 5 MB****Level 2**

3-key chords, battente (strummed), C major to B major scales

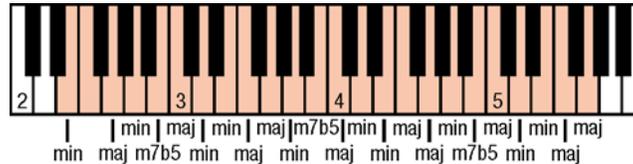
2 velocity layers: 0–88 p; 89–127 f

Release samples

AB switch: normal/muted

Mapping:

base key – major; 2nd – minor; 3rd – minor; 4th – major; 5th – major; 6th – minor; 7th – diminished with min. 7th

**13 CHORDS on 4-6 Strings/01 Major 3 keys/02 Regular - pull****01 CG_C-maj-3_pull (through to B-maj)****Samples: 89****RAM: 5 MB****Level 2**

3-key chords, pulled (plucked), C major to B major scales

2 velocity layers: 0–88 p; 89–127 f

Release samples

AB switch: normal/muted

13 CHORDS on 4-6 Strings/01 Major 3 keys/03 Rasguando**01 CG_C-maj-3_rasg (through to B-maj)****Samples: 89****RAM: 5 MB****Level 2**

3-key chords, short rasguando (rapid strumming with single fingers), C major to B major scales

2 velocity layers: 0–88 p; 89–127 f

Release samples

AB switch: normal/muted

13 CHORDS on 4-6 Strings/01 Major 3 keys/04 Arpeggio**01 CG_C-maj-3_arp (through to B-maj)****Samples: 129****RAM: 8 MB****Level 2**

3-key chords, arpeggio and long rasguando, C major to B major scales

2 velocity layers: 0–88 p; 89–127 f

Release samples

AB switch: arpeggio/rasguando

13 CHORDS on 4-6 Strings/02 Major 4 keys

Level 2: 4-key chords, C to B major

Battente

Pulled

Rasguando short

Arpeggio/rasguando long

4-key chords on every note of the scale, C major to B major

Depending on tablature, the chords are played on 4 to 6 strings.

For individual play ranges, please see the appendix.

Mapping:

1.) E2–D#4 features the lower playing positions on the guitar with 3–4 6-string chords and 1–3 5-string chords followed by 4-string chords up to the highest chord.

2.) E4–G5/G#5 (depending on the scale) features higher playing positions, with 6-string chords up to C3, if possible. The lowest of these are the same in playing position 1. They are followed by 5-string chords up to G3. The following 4-string chords are the same as at the 1st playing position.

Here's an illustration of the chords as they are played for C major, with the keys they are mapped to.

The image displays 13 chords on a guitar staff, organized into four rows. Each chord is represented by a vertical line with dots indicating the fretted notes on the strings. The chords are labeled as follows:

- Row 1: E2, F2, G2, A2, B2, C3, D3
- Row 2: E3, F3, G3, A3, B3, C4, D4
- Row 3: E4, F4, G4, A4, B4, C5, D5
- Row 4: E5, F5, G5

13 CHORDS on 4-6 Strings/02 Major 4 keys/01 Regular - batt**01 CG_C-maj-4_batt (through to B-maj)****Samples: 85****RAM: 5 MB****Level 2**

4-key chords, battente (strummed), C major to B major scales

2 velocity layers: 0–88 p; 89–127 f

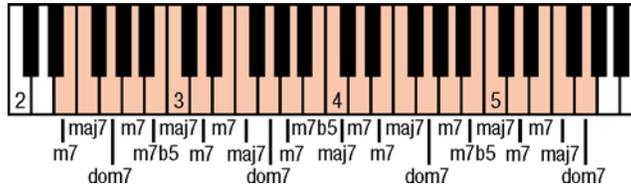
Release samples

AB switch: normal/muted

Mapping:

base key – major 7; 2nd – minor 7; 3rd – minor 7; 4th – major 7; 5th – dominant 7; 6th – minor

7; 7th – diminishedwith min. 7

**13 CHORDS on 4-6 Strings/02 Major 4 keys/02 Regular - pull****01 CG_C-maj-4_pull (through to B-maj)****Samples: 85****RAM: 5 MB****Level 2**

4-key chords, pulled (plucked), C major to B major scales

2 velocity layers: 0–88 p; 89–127 f

Release samples

AB switch: normal/muted

13 CHORDS on 4-6 Strings/02 Major 4 keys/03 Rasguando**01 CG_C-maj-4_rasg (through to B-maj)****Samples: 85****RAM: 5 MB****Level 2**

4-key chords, short rasguando (rapid strumming with single fingers), C major to B major scales

2 velocity layers: 0–88 p; 89–127 f

Release samples

AB switch: normal/muted

13 CHORDS on 4-6 Strings/02 Major 4 keys/04 Arpeggio**01 CG_C-maj-4_arp (through to B-maj)****Samples: 123****RAM: 7 MB****Level 2**

4-key chords, arpeggio and long rasguando, C major to B major scales

2 velocity layers: 0–88 p; 89–127 f

Release samples

AB switch: arpeggio/rasguando

13 CHORDS on 4-6 Strings/03 Minor 3 keys

Level 2: 3-key chords, C to B minor

Battente

Pulled

Rasguando short

Arpeggio/rasguando long

3-key chords on every note of the scale, C to B minor

Depending on tablature, the chords are played on 4 to 6 strings.

For individual play ranges, please see the appendix.

Mapping:

1st playing position, E2–D#4: aeolian mode (natural minor).

2nd playing position, E4–D#6: harmonic minor.

Here's an illustration of the chords as they are played for C minor, with the keys they are mapped to.

The image displays 13 chords for C minor, organized into four staves. Each staff shows a sequence of seven chords with their corresponding notes and octave numbers. The chords are: F2, G2, Ab2, Bb2, C3, D3, Eb3; F3, G3, Ab3, Bb3, C4, D4, Eb4; F4, G4, Ab4, B4, C5, D5, Eb5; and F5, G5, Ab5, B5, C6, D6, Eb6.

Staff	Chord	Notes	Octave
1	F2	C2, D2, E2	2
1	G2	D2, E2, F2	2
1	Ab2	E2, F2, G2	2
1	Bb2	F2, G2, Ab2	2
1	C3	G2, Ab2, Bb2	3
1	D3	Ab2, Bb2, C3	3
1	Eb3	Bb2, C3, D3	3
2	F3	C3, D3, E3	3
2	G3	D3, E3, F3	3
2	Ab3	E3, F3, G3	3
2	Bb3	F3, G3, Ab3	3
2	C4	G3, Ab3, Bb3	4
2	D4	Ab3, Bb3, C4	4
2	Eb4	Bb3, C4, D4	4
3	F4	C4, D4, E4	4
3	G4	D4, E4, F4	4
3	Ab4	E4, F4, G4	4
3	B4	F4, G4, Ab4	4
3	C5	G4, Ab4, B4	5
3	D5	Ab4, B4, C5	5
3	Eb5	B4, C5, D5	5
4	F5	C5, D5, E5	5
4	G5	D5, E5, F5	5
4	Ab5	E5, F5, G5	5
4	B5	F5, G5, Ab5	5
4	C6	G5, Ab5, B5	6
4	D6	Ab5, B5, C6	6
4	Eb6	B5, C6, D6	6

13 CHORDS on 4-6 Strings/03 Minor 3 keys/01 Regular - batt**01 CG_C-min-3_batt (through to B-min)****Samples: 93****RAM: 5 MB****Level 2**

3-key chords, battente (strummed), C to B minor

2 velocity layers: 0–88 p; 89–127 f

Release samples

AB switch: normal/muted

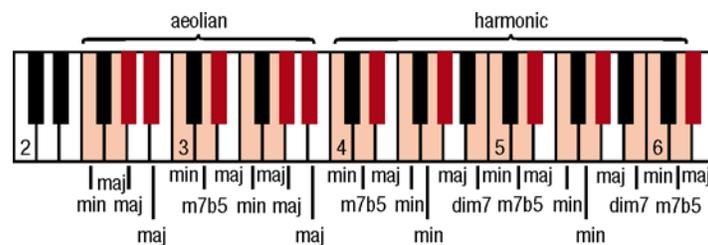
Mapping:

F2–A#3 (aeolian):

base key – minor; 2nd – diminished with min. 7; 3rd – major; 4th – minor; 5th – major; 6th – major; 7th – major

C4–D#6 (harmonic):

base key – minor; 2nd – diminished with min. 7th; 3rd – major; 4th – minor; 5th – minor; 6th – major; 7th – dim. 7

**13 CHORDS on 4-6 Strings/03 Minor 3 keys/02 Regular - pull****01 CG_C-min-3_pull (through to B-min-3)****Samples: 93****RAM: 5 MB****Level 2**

3-key chords, pulled (plucked), C to B minor

2 velocity layers: 0–88 p; 89–127 f

Release samples

AB switch: normal/muted

13 CHORDS on 4-6 Strings/03 Minor 3 keys/03 Rasguando**01 CG_C-min-3_rasg (through to B-min-3)****Samples: 93****RAM: 5 MB****Level 2**

3-key chords, short rasguando (rapid strumming with single fingers), C to B minor

2 velocity layers: 0–88 p; 89–127 f

Release samples

AB switch: normal/muted

13 CHORDS on 4-6 Strings/03 Minor 3 keys/04 Arpeggio**01 CG_C-min-3_arp (through to B-min-3)****Samples: 135****RAM: 8 MB****Level 2**

3-key chords, arpeggio and long rasguando, C to B minor

2 velocity layers: 0–88 p; 89–127 f

Release samples

AB switch: arpeggio/rasguando

13 CHORDS on 4-6 Strings/04 Minor 4 keys

Level 2: 4-key chords, C to B minor

Battente

Pulled

Rasguando short

Arpeggio/rasguando long

4-key chords on every note of the scale, C to B minor

Depending on tablature, the chords are played on 4 to 6 strings.

For individual play ranges, please see the appendix.

Mapping:

1st playing position, E2–D#4: aeolian mode (natural minor).

2nd playing position, E4–D6/D#6: harmonic minor.

Here's an illustration of the chords as they are played for C minor, with the keys they are mapped to.

The image displays four staves of musical notation, each representing a different playing position for the 13 chords of C minor. The chords are arranged in a scale from F2 to Eb6. Each chord is shown as a vertical stack of notes on a five-line staff, with a treble clef and a key signature of two flats (Bb and Eb). The notes are indicated by black dots on the lines and spaces. Below each chord, its name and octave are written in bold black text.

Staff	Chord	Notes (from bottom to top)
1	F2	F2, C2, G1
1	G2	G2, D2, A1
1	Ab2	Ab2, Eb2, Bb1
1	Bb2	Bb2, F2, C2
1	C3	C3, G2, D2
1	D3	D3, Ab2, F2
1	Eb3	Eb3, Bb2, G2
2	F3	F3, C3, G2
2	G3	G3, D3, Ab2
2	Ab3	Ab3, Eb3, Bb2
2	Bb3	Bb3, F3, C3
2	C4	C4, G3, D3
2	D4	D4, Ab3, F3
2	Eb4	Eb4, Bb3, G3
3	F4	F4, C4, G3
3	G4	G4, D4, Ab3
3	Ab4	Ab4, Eb4, Bb3
3	B4	B4, F4, C4
3	C5	C5, G4, D4
3	D5	D5, Ab4, F4
3	Eb5	Eb5, Bb4, G4
4	F5	F5, C5, G4
4	G5	G5, D5, Ab4
4	Ab5	Ab5, Eb5, Bb4
4	B5	B5, F5, C5
4	C6	C6, G5, D5
4	D6	D6, Ab5, F5
4	Eb6	Eb6, Bb5, G5

13 CHORDS on 4-6 Strings/04 Minor 4 keys/01 Regular - batt**01 CG_C-min_batt (through to B-min)****Samples: 97****RAM: 6 MB****Level 2**

4-key chords, battente (strummed), C to B minor

2 velocity layers: 0–88 p; 89–127 f

Release samples

AB switch: normal/muted

Mapping:

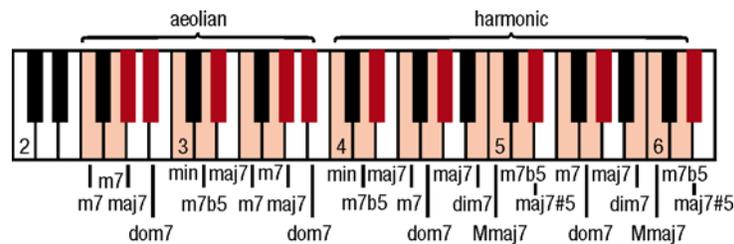
F2–A#3 (aeolian):

base key – minor 7; 2nd – diminished with min. 7; 3rd – major 7; 4th – minor 7; 5th – minor 7;
6th – major 7; 7th – dom. 7

C4–B4 (harmonic):

base key – minor 7; 2nd – diminished with min. 7; 3rd – major 7; 4th – minor 7; 5th – dom. 7;
6th – major 7; 7th – dim. 7

C5–D#6 (harmonic):

base key – minor with maj. 7; 2nd – diminished with min. 7; 3rd – maj. 7 with augmented 5; 4th
– minor 7; 5th – dom. 7; 6th – major 7; 7th – dim. 7**13 CHORDS on 4-6 Strings/04 Minor 4 keys/02 Regular - pull****01 CG_C-min_pull (through to B-min)****Samples: 97****RAM: 6 MB****Level 2**

4-key chords, pulled (plucked), C to B minor

2 velocity layers: 0–88 p; 89–127 f

Release samples

AB switch: normal/muted

13 CHORDS on 4-6 Strings/04 Minor 4 keys/03 Rasguando**01 CG_C-min_rasg (through to B-min)****Samples: 97****RAM: 6 MB****Level 2**

4-key chords, short rasguando (rapid strumming with single fingers), C to B minor

2 velocity layers: 0–88 p; 89–127 f

Release samples

AB switch: normal/muted

13 CHORDS on 4-6 Strings/04 Minor 4 keys/04 Arpeggio**01 CG_C-min_arp (through to B-min)****Samples: 141****RAM: 8 MB****Level 2**

4-key chords, arpeggio and long rasguando, C to B minor

2 velocity layers: 0–88 p; 89–127 f

Release samples

AB switch: arpeggio/rasguando

13 CHORDS on 4-6 Strings/05 Chromatic Mapping

Level 2: Chords in chromatic progression

Battente, pulled, rasguando short, and arpeggio/long rasguando

Major, minor, dominant 7, major 7, and minor 7 chords on 6, 5, and 4 strings

Diminished 7, major 7 with augmented 5th, minor 7 with diminished 5th, and minor with major 7th chords

Sus4 and 7sus4, with the E, A, and D strings as base

Here's an illustration of the chords, based on the lowest playing position on the guitar:

major

minor

dom7

maj7

min7

D#2-D#3 A3-G#4 C#5-D6

dim7 maj7#5 m7b5 Mmaj7

sus4

7sus4

D#2-D#3 G#3-G#4 C#5-D#6

13 CHORDS on 4-6 Strings/05 Chromatic Mapping/01 Regular - batt**01 CG_chord_major_batt (minor/dom7/maj7/min7)****Range: D#2-D6 Samples: 85 RAM: 5 MB Level 2**

Major, minor, dominant 7, major 7, and minor 7 chords, battente (strummed)

2 velocity layers: 0-88 p; 89-127 f

Release samples

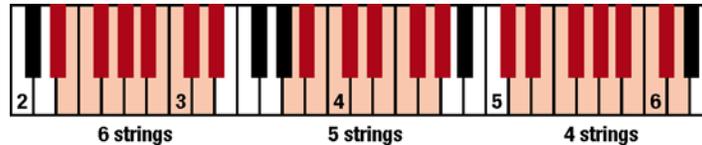
AB switch: normal/muted

Mapping:

D#2-D#3: E (6 strings)

A3-G#4: A (5 strings)

C#5-D6: D (4 strings)

**06 CG_chord_dim7_batt (maj7#5/m7b5/Mmaj7) Range: A2-D#4 Samples: 45 RAM: 2 MB Level 2**

Diminished 7, major 7 with augmented 5th, minor 7 with diminished 5th, and minor with major 7th chords, battente

2 velocity layers: 0-88 p; 89-127 f

Release samples

AB switch: normal/muted

10 CG_chord_sus4_batt (7sus4)**Range: D#2-D#6 Samples: 85 RAM: 5 MB Level 2**

Sus4 and 7sus4 chords, battente

2 velocity layers: 0-88 p; 89-127 f

Release samples

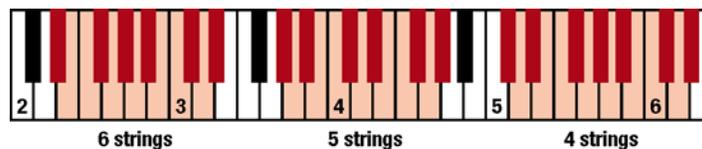
AB switch: normal/muted

Mapping:

D#2-D#3: E (6 strings)

G#3-G#4: A (5 strings)

C#5-D#6: D (4 strings)



13 CHORDS on 4-6 Strings/05 Chromatic Mapping/02 Regular - pull**01 CG_chord_major_pull (minor/dom7/maj7/min7)****Range: D#2-D6 Samples: 85 RAM: 5 MB Level 2**

Major, minor, dominant 7, major 7, and minor 7 chords, pulled (plucked)

2 velocity layers: 0-88 p; 89-127 f

Release samples

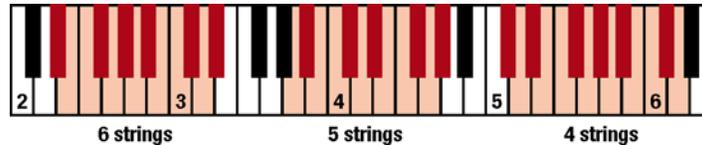
AB switch: normal/muted

Mapping:

D#2-D#3: E (6 strings)

A3-G#4: A (5 strings)

C#5-D6: D (4 strings)

**06 CG_chord_dim7_pull (maj7#5/m7b5/Mmaj7) Range: A2-D#4 Samples: 45 RAM: 2 MB Level 2**

Diminished 7, major 7 with augmented 5th, minor 7 with diminished 5th, and minor with major 7th chords, pulled

2 velocity layers: 0-88 p; 89-127 f

Release samples

AB switch: normal/muted

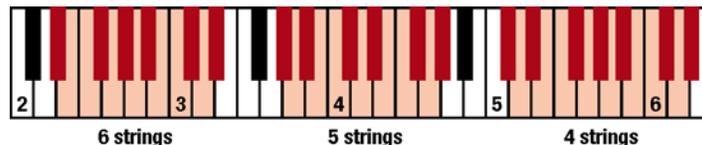
10 CG_chord_sus4_pull (7sus4)**Range: D#2-D#6 Samples: 85 RAM: 5 MB Level 2**

Sus4 and 7sus4 chords, pulled

2 velocity layers: 0-88 p; 89-127 f

Release samples

AB switch: normal/muted

**13 CHORDS on 4-6 Strings/05 Chromatic Mapping/03 Rasguando****01 CG_chord_major_rasg (minor/dom7/maj7/min7)****Range: D#2-D6 Samples: 85 RAM: 5 MB Level 2**

Major, minor, dominant 7, major 7, and minor 7 chords, short rasguando

2 velocity layers: 0-88 p; 89-127 f

Release samples

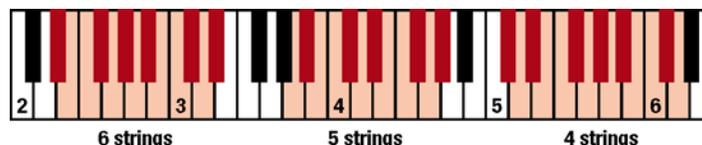
AB switch: normal/muted

Mapping:

D#2-D#3: E (6 strings)

A3-G#4: A (5 strings)

C#5-D6: D (4 strings)



06 CG_chord_dim7_rasg (maj7#5/m7b5/Mmaj7) Range: A2-D#4 Samples: 45 RAM: 2 MB Level 2

Diminished 7, major 7 with augmented 5th, minor 7 with diminished 5th, and minor with major 7th chords, short rasguando
 2 velocity layers: 0–88 p; 89–127 f
 Release samples
 AB switch: normal/muted

10 CG_chord_sus4_rasg (7sus4) Range: D#2-D#6 Samples: 85 RAM: 5 MB Level 2

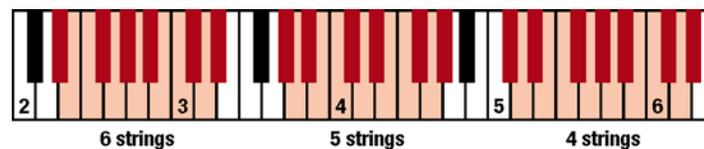
Sus4 and 7sus4 chords, short rasguando
 2 velocity layers: 0–88 p; 89–127 f
 Release samples
 AB switch: normal/muted

Mapping:

D#2–D#3: E (6 strings)

G#3–G#4: A (5 strings)

C#5–D#6: D (4 strings)

**13 CHORDS on 4-6 Strings/05 Chromatic Mapping/04 Arpeggio****01 CG_chord_major_arp (minor/dom7/maj7/min7)****Range: D#2–D6 Samples: 123 RAM: 7 MB Level 2**

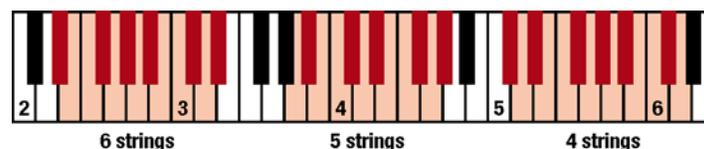
Major, minor, dominant 7, major 7, and minor 7 chords, arpeggio/long rasguando
 2 velocity layers: 0–88 p; 89–127 f
 Release samples
 AB switch: arpeggio/rasguando

Mapping:

D#2–D#3: E (6 strings)

A3–G#4: A (5 strings)

C#5–D6: D (4 strings)

**06 CG_chord_dim7_arp (maj7#5/m7b5/Mmaj7) Range: A2-D#4 Samples: 63 RAM: 3 MB Level 2**

Diminished 7, major 7 with augmented 5th, minor 7 with diminished 5th, and minor with major 7th chords, arpeggio/long rasguando
 2 velocity layers: 0–88 p; 89–127 f
 Release samples
 AB switch: arpeggio/rasguando

10 CG_chord_sus4_arp (7sus4)Range: D#2–D#6 Samples: 123 RAM: 7 MB **Level 2**

Sus4 and 7sus4 chords, arpeggio/long rasguando

2 velocity layers: 0–88 p; 89–127 f

Release samples

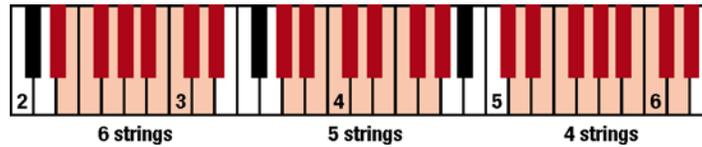
AB switch: arpeggio/rasguando

Mapping:

D#2–D#3: E (6 strings)

G#3–G#4: A (5 strings)

C#5–D#6: D (4 strings)



14 CHORDS on 3 Strings

Level 2: Chords played on 3 strings in chromatic progression
 Battente, pulled, and rasguando short
 Major base, 1st inversion, 2nd inversion, with 8ve
 Minor base, 1st inversion, 2nd inversion
 Minor 7, dominant 7, diminished 7, sus4

Here's an illustration of the chords, based on the lowest playing position on the guitar:

The image displays three staves of musical notation, each showing a sequence of four chords. The first staff contains major5, major6, major46, and major8. The second staff contains minor5, minor6, minor46, and minor7. The third staff contains dom7, dim7, and sus4. Each chord is represented by a treble clef, a G-clef, and a staff with notes and a sharp sign indicating the chord structure.

14 CHORDS on 3 Strings/01 Regular - batt

01 CG_chord3_major5_batt (major6/major46/major8/minor5/minor6/minor46/minor7/dom7/dim7/sus4)
 Samples: 37 RAM: 2 MB **Level 2**

Major base, 1st inversion, 2nd inversion, octave
 Minor base, 1st inversion, 2nd inversion, 7th
 Dominant 7, diminished 7, sus4
 Battente (strummed)
 2 velocity layers: 0–88 p; 89–127 f
 Release samples
 AB switch: normal/muted

14 CHORDS on 3 Strings/02 Regular - pull

01 CG_chord3_major5_pull (major6/major46/major8/minor5/minor6/minor46/minor7/dom7/dim7/sus4)
 Samples: 37 RAM: 2 MB **Level 2**

Major base, 1st inversion, 2nd inversion, octave
 Minor base, 1st inversion, 2nd inversion, 7th
 Dominant 7, diminished 7, sus4
 Pulled (plucked)
 2 velocity layers: 0–88 p; 89–127 f
 Release samples
 AB switch: normal/muted

Matrices

Matrix - LEVEL 1

L1 CG Articulation Combi

Samples: 1085 RAM: 67 MB [Level 1](#)

Staccato normal and Bartók
Sustained without and with vibrato
Ponticello without and with vibrato
Harmonics artificial and natural
Trills half and whole tone

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

	C1	C#1	D1	D#1	E1
V1	staccato normal	sustained, no vib.	ponticello, no vibrato	harmonics, artificial	trills half
V2	staccato Bartók	sustained, vibrato	ponticello, vibrato	harmonics, natural	trills whole

L1 CG Perf-Legato Speed

Samples: 3931 RAM: 245 MB [Level 1](#)

Interval performances, legato
Normal, hammered and pulled, ponticello, and glissando
Monophonic, Speed controller

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

	H1	H2
V1	normal	hammered / pulled
V2	ponticello	ponticello
V3	glissando	hammered / pulled

L1 CG Perf-Repetitions Combi

Samples: 1401 RAM: 87 MB [Level 1](#)

Repetition performances
Legato slow
Legato fast, var. 1
Staccato

Matrix switches: Horizontal: Keyswitches, C1–D1

	C1	C#1	D1
repetitions	legato slow	legato fast	staccato

Matrix - LEVEL 2**01 CG Articulation Combi****Samples: 2189 RAM: 136 MB Level 2**

Staccato normal and Bartók
 Sustained, flautando, ponticello and Bartók without and with vibrato
 Étouffé staccato and sustained
 Harmonics artificial and natural
 Trills half and whole tone
 Tremolo, short
 Bends

Matrix switches: Horizontal: Keyswitches, C1–A1 Vertical: Modwheel, 2 zones

	C1	C#1	D1	D#1	E1	F1	F#1	G1	G#1	A1
V1	staccato normal	sustained, no vibrato	flautando, no vibrato	ponticello, no vibrato	Bartók, no vibrato	étouffé, staccato	harmonics, artificial	trills half	tremolo short	bends
V2	staccato Bartók	sustained, vibrato	flautando, vibrato	ponticello, vibrato	Bartók, vibrato	étouffé, sustained	harmonics, natural	trills whole	tremolo short	bends

02 CG Hammer**Samples: 217 RAM: 13 MB Level 2**

Hammer-ons on the E, A, d, g, b, e strings, and on all strings

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

	C1	C#1	D1	D#1	E1	F1
single strings	E	A	d	g	b	e
all strings	%	%	%	%	%	%

03 CG Perf-Repetitions Combi**Samples: 3561 RAM: 222 MB Level 2**

Repetition performances
 Legato slow, medium, and fast (var. 1/2)
 Staccato
 Ponticello medium and fast
 Crescendo and diminuendo

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

	C1	C#1	D1	D#1	E1
V1	legato slow	legato fast v.1	staccato	ponticello medium	dynamics
V2	legato medium	legato fast v.2	staccato	ponticello fast	dynamics

04 CG Fast Repetitions**Samples: 840 RAM: 52 MB Level 2**

Fast repetitions, 140, 150, 160, 180, and 200 BPM
 Normal, ponticello, crescendo and diminuendo

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

	C1	C#1	D1	D#1	E1
normal	140 BPM	150 BPM	160 BPM	180 BPM	200 BPM
ponticello	%	%	%	%	%
dynamics	%	%	%	%	%

05 CG Perf-Repetitions_cre9**Samples: 249 RAM: 15 MB Level 2**

Extracted crescendo repetitions, 1st to 9th note

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

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

06 CG Perf-Repetitions_dim9**Samples: 249 RAM: 15 MB Level 2**

Extracted diminuendo repetitions, 1st to 9th note

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

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

07 CG FX**Samples: 157 RAM: 9 MB Level 2**

Effects: Golpe, harp, muted chords, and scratches on the E, A, and D strings as well as in combination

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

	C1	C#1	D1	D#1	E1	F1	F#1
V1	golpe	harp	chords muted	scratches E	scratches A	scratches D	scratches combi

Matrix - LEVEL 2 Chords**01 CG Major 3 keys - batt & pull****Samples: 369 RAM: 23 MB Level 2**

3-key chords, major

Battente and pulled

AB switch: normal/muted

Matrix switches: Horizontal: Keyswitches, C1–B1 Vertical: Modwheel, 2 zones

	C1	C#1	D1	D#1	E1	F1	F#1	G1	G#1	A1	A#1	B1
battente	C	C#	D	D#	E	F	F#	G	G#	A	A#	B
pulled	%	%	%	%	%	%	%	%	%	%	%	%

02 CG Major 3 keys - all**Samples: 729 RAM: 45 MB Level 2**

3-key chords, major

Battente, pulled, rasguando and arpeggio/long rasguando

AB switches: normal/muted and arpeggio/rasguando

Matrix switches: Horizontal: Keyswitches, C1–B1 Vertical: Modwheel, 4 zones

	C1	C#1	D1	D#1	E1	F1	F#1	G1	G#1	A1	A#1	B1
battente	C	C#	D	D#	E	F	F#	G	G#	A	A#	B
pulled	%	%	%	%	%	%	%	%	%	%	%	%
rasguando	%	%	%	%	%	%	%	%	%	%	%	%
arpeggio/rasg	%	%	%	%	%	%	%	%	%	%	%	%

03 CG Minor 3 keys - batt & pull**Samples: 441 RAM: 27 MB Level 2**

3-key chords, minor

Battente and pulled

AB switch: normal/muted

Matrix switches: Horizontal: Keyswitches, C1–B1 Vertical: Modwheel, 2 zones

	C1	C#1	D1	D#1	E1	F1	F#1	G1	G#1	A1	A#1	B1
battente	C	C#	D	D#	E	F	F#	G	G#	A	A#	B
pulled	%	%	%	%	%	%	%	%	%	%	%	%

04 CG Minor 3 keys - all**Samples: 873 RAM: 54 MB Level 2**

3-key chords, minor

Battente, pulled, rasguando and arpeggio/long rasguando

AB switches: normal/muted and arpeggio/rasguando

Matrix switches: Horizontal: Keyswitches, C1–B1 Vertical: Modwheel, 4 zones

	C1	C#1	D1	D#1	E1	F1	F#1	G1	G#1	A1	A#1	B1
battente	C	C#	D	D#	E	F	F#	G	G#	A	A#	B
pulled	%	%	%	%	%	%	%	%	%	%	%	%
rasguando	%	%	%	%	%	%	%	%	%	%	%	%
arpeggio/rasg	%	%	%	%	%	%	%	%	%	%	%	%

11 CG Major 4 keys - batt & pull**Samples: 505 RAM: 31 MB Level 2**

4-key chords, major

Battente and pulled

AB switch: normal/muted

Matrix switches: Horizontal: Keyswitches, C1–B1 Vertical: Modwheel, 2 zones

	C1	C#1	D1	D#1	E1	F1	F#1	G1	G#1	A1	A#1	B1
battente	C	C#	D	D#	E	F	F#	G	G#	A	A#	B
pulled	%	%	%	%	%	%	%	%	%	%	%	%

12 CG Major 4 keys - all**Samples: 1001 RAM: 62 MB Level 2**

4-key chords, major

Battente, pulled, rasguando and arpeggio/long rasguando

AB switches: normal/muted and arpeggio/rasguando

Matrix switches: Horizontal: Keyswitches, C1–B1 Vertical: Modwheel, 4 zones

	C1	C#1	D1	D#1	E1	F1	F#1	G1	G#1	A1	A#1	B1
battente	C	C#	D	D#	E	F	F#	G	G#	A	A#	B
pulled	%	%	%	%	%	%	%	%	%	%	%	%
rasguando	%	%	%	%	%	%	%	%	%	%	%	%
arpeggio/rasg	%	%	%	%	%	%	%	%	%	%	%	%

13 CG Minor 4 keys - batt & pull**Samples: 729 RAM: 45 MB Level 2**

4-key chords, minor

Battente and pulled

AB switch: normal/muted

Matrix switches: Horizontal: Keyswitches, C1–B1 Vertical: Modwheel, 2 zones

	C1	C#1	D1	D#1	E1	F1	F#1	G1	G#1	A1	A#1	B1
battente	C	C#	D	D#	E	F	F#	G	G#	A	A#	B
pulled	%	%	%	%	%	%	%	%	%	%	%	%

14 CG Minor 4 keys - all**Samples: 1475 RAM: 92 MB Level 2**

4-key chords, minor

Battente, pulled, rasguando and arpeggio/long rasguando

AB switches: normal/muted and arpeggio/rasguando

Matrix switches: Horizontal: Keyswitches, C1–B1 Vertical: Modwheel, 4 zones

	C1	C#1	D1	D#1	E1	F1	F#1	G1	G#1	A1	A#1	B1
battente	C	C#	D	D#	E	F	F#	G	G#	A	A#	B
pulled	%	%	%	%	%	%	%	%	%	%	%	%
rasguando	%	%	%	%	%	%	%	%	%	%	%	%
arpeggio/rasg	%	%	%	%	%	%	%	%	%	%	%	%

21 CG chromatic - batt & pull**Samples: 1361 RAM: 85 MB Level 2**

Chords in chromatic progression, battente and pulled

Major, minor, dominant 7, major 7, minor 7, diminished 7, major 7 with augmented 5th, minor 7 with diminished 5th, minor with major 7th, suspended 4th, and 7 with suspended 4th

AB switch: normal/muted

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

	C1	C#1	D1	D#1	E1	F1	F#1	G1	G#1	A1	A#1
battente	major	minor	dom.7	maj.7	min.7	dim.7	maj.7#5	min.7b5	min.maj7	sus.4	7 sus.4
pulled	%	%	%	%	%	%	%	%	%	%	%

22 CG chromatic - all**Samples: 2713 RAM: 169 MB Level 2**

Chords in chromatic progression, battente, pulled, rasguando and arpeggio/long rasguando

Major, minor, dominant 7, major 7, minor 7, diminished 7, major 7 with augmented 5th, minor 7 with diminished 5th, minor with major 7th, suspended 4th, and 7 with suspended 4th

AB switches: normal/muted and arpeggio/rasguando

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

	C1	C#1	D1	D#1	E1	F1	F#1	G1	G#1	A1	A#1
battente	major	minor	dom.7	maj.7	min.7	dim.7	maj.7#5	min.7b5	min.maj7	sus.4	7 sus.4
pulled	%	%	%	%	%	%	%	%	%	%	%
rasguando	%	%	%	%	%	%	%	%	%	%	%
arpeggio/rasg	%	%	%	%	%	%	%	%	%	%	%

31 CG 3string chrom - batt & pull**Samples: 633 RAM: 39 MB Level 2**

Chords on 3 strings in chromatic progression, battente and pulled

Major base, 1st and 2nd inversion, octave

Minor base, 1st and 2nd inversion

Minor 7, dominant 7, diminished 7, and suspended 4th

AB switch: normal/muted

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

	C1	C#1	D1	D#1	E1	F1	F#1	G1	G#1	A1	A#1
battente	maj. 5	maj. 6	maj. 4/6	maj. 8	min. 5	min. 6	min. 4/6	min. 7	dom. 7	dim. 7	sus. 4
pulled	%	%	%	%	%	%	%	%	%	%	%

32 CG 3string chrom - all**Samples: 945 RAM: 59 MB Level 2**

Chords played on 3 strings in chromatic progression, battente, pulled, and rasguando

Major base, 1st and 2nd inversion, octave

Minor base, 1st and 2nd inversion

Minor 7, dominant 7, diminished 7, and suspended 4th

AB switch: normal/muted

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

	C1	C#1	D1	D#1	E1	F1	F#1	G1	G#1	A1	A#1
battente	maj. 5	maj. 6	maj. 4/6	maj. 8	min. 5	min. 6	min. 4/6	min. 7	dom. 7	dim. 7	sus. 4
pulled	%	%	%	%	%	%	%	%	%	%	%
rasguando	%	%	%	%	%	%	%	%	%	%	%

Presets

CG VSL Preset Level 1

Samples: 5944 RAM: 371 MB [Level 1](#)

L1 CG Articulation Combi
 L1 CG Perf-Legato Speed
 L1 CG Perf-Repetitions Combi
 Matrix keyswitches: C7–D7

CG VSL Preset Level 2

Samples: 12199 RAM: 762 MB [Level 2](#)

L1 CG Perf-Legato Speed
 01 CG Articulation Combi
 03 CG Perf-Repetitions Combi
 04 CG Fast Repetitions
 02 CG Major 3 keys - all
 12 CG Major 4 keys - all
 04 CG Minor 3 keys - all
 14 CG Minor 4 keys - all
 07 CG FX
 Matrix keyswitches: C7–G#7

Appendix – Chord play ranges

Chords on 4–6 Strings – battente, pulled, rasguando, arpeggio/long rasguando

Major 3 and 4 keys

Scale	Range
C major	E2–G5
C# major	F2–G#5
D major	E2–G5
D# major	F2–G#5
E major	E2–G#5
F major	E2–G5
F# major	F2–G#5
G major	E2–G5
G# major	F2–G#5
A major	E2–F#5
A# major	F2–G5
B major	E2–G#5

Minor 3 and 4 keys

Scale	Range
C minor	F2–D#6
C# minor	E2–D#6
D minor	E2–D6
D# minor	F2–D#6
E minor	E2–D#6
F minor	F2–C#6
F# minor	E2–D6
G minor	F2–D#6
G# minor	E2–D#6
A minor	E2–D6
A# minor	F2–D#6
B minor	E2–D6

Chromatic Mapping

Chord	Range
major	D#2–D6
minor	D#2–D6
dom7	D#2–D6
maj7	D#2–D6
min7	D#2–D6
dim7	A2–D#4
maj7#5	A2–D#4
m7b5	A2–D#4
Mmaj7	A2–D#4
sus4	D#2–D#6
7sus4	D#2–D#6

Chords on 3 Strings – battente, pulled, rasguando

Chord	Range
major5	G6–B7
major6	G6–B7
major46	F#6–A7
major8	F#6–A7
minor5	G6–B7
minor6	F#6–A7
minor46	G6–B7
minor7	G6–B7
dom7	F#6–A7
dim7	G6–B7
sus4	F#6–A7