



REALRICK 6 USER'S MANUAL

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ABOUT THE PROGRAM

RealRick virtual instrument captures the unmistakable sound of a legendary Rickenbacker® electric guitar, which became permanently intertwined with the sound of The Beatles.

RealRick is a sample-based virtual instrument with an innovative approach to guitar sound modeling and guitar techniques emulated on a standard MIDI keyboard.



RealRick provides incredible playability based on the unique performance modes and easy-to-use keyboard layout as well as the advanced key/pedal/velocity switch system allowing a keyboardist to perform guitar parts with a whole new level of realistic expression.

RealRick covers practically all sounds, articulations, and techniques a professional guitarist can produce on his Rickenbacker®, including mute, bridge mute, harmonics, pinch harmonics, unison bend, strumming, picking, chord choking, scraping, etc...

24-bit 96kHz high quality dry samples recorded directly from pick-ups let you easily create any desired guitar sound using your favourite amplifier simulator.

The true power of RealRick lies in brand new technologies incorporated in this innovative guitar performance tool:

- Multi-channel layering technology, incorporating a custom library of specially recorded samples taken from every fret of all 6 strings of a real guitar.
- Floating Fret Position technology, which imitates change of fret position of a guitarist's hand on the neck. This gives you the possibility of playing on up to 140 guitar frets using just 46 keys of a standard keyboard!
- Ready-to-use Double Tracking configuration with a single MIDI input.
- Our original Guitar Touch technology letting you easily imitate basic guitar techniques (strumming, plucking, sliding, bending, muting, etc..), using standard MIDI keyboard and MIDI controllers, such as Pitch Bender, Modulation Wheel, Sustain Pedal, Aftertouch.
- Advanced Humanize section allowing to easily add realism to the performance, both live and step-recorded in a MIDI track, or automatic.
- Guitar Rhythm Pattern technology providing powerful Pattern Manager completed with huge MusicLab Guitar Pattern Library for easily creating guitar accompaniment tracks. All you have to do is to find the appropriate rhythm pattern(s) in the Pattern Manager tree view, copy it to the needed number of measures, start your sequencer and use MIDI keyboard to play chord changes, or alternatively add chords to a MIDI track via sequencer's editor.
- Song Mode turning RealRick 6 into a powerful and easy-to-use songwriting tool allowing you in no time create perfect guitar backing tracks for your songs. Simply insert chord symbols and rhythm patterns into the built-in Song Track - and your guitar part is ready!

These technologies allow to closely emulate live guitar sound and techniques, letting you perform guitar parts with a whole new level of realistic expression.

WHAT'S NEW IN REALRICK 6

200+ NEW GUITAR SOUNDS

- Over 200 carefully crafted new sounds, which will greatly improve your sonic library.
- You can use amp simulator plug-ins right within our instruments plus save and recall factory and user presets without leaving our instrument window.
- Backward compatible with previous versions of RealRick.
- Strumming engine authenticity improvements.
- DAW compatibility improvements.

INSTALLING REALRICK

INSTALLING REALRICK PC VERSION

Double-click RealRick Installer file and follow the on-screen instructions.

In case your VST/VST3 plugins folder is not registered correctly RealRick installer will not automatically install RealRick.dll's in the correct folder. So, to let your VST host 'find' RealRick you have to manually copy RealRick.dll, RealRick (2 mono).dll, RealRick (2 stereo).dll, and RealRick.vst3 files from RealRick installation folder to your VSTplugins/VST3 directory.

If your Windows is 64bit, please note of installation folders:

32bit: *C:\Program Files (X86)\MusicLab\RealRick 6*

64bit: *C:\Program Files\MusicLab\RealRick 6*

INSTALLING REALRICK MAC VERSION

Double-click RealRick Installer icon and follow the on-screen instructions.

LAUNCHING REALRICK

Launching RealRick as a VST/AU instrument:

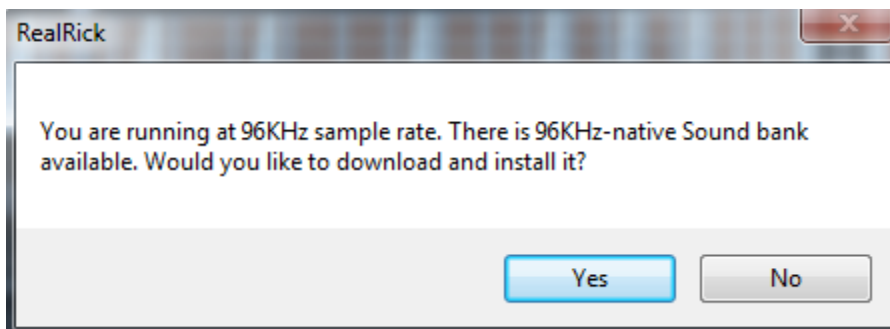
1. Open your DAW (host application).
2. Create Software Instrument track.
3. Add RealRick to the track.
4. Open the RealRick window by double-clicking the RealRick button/icon.
5. Launching RealRick multi output version:
One of the most powerful RealRick features is the ability to simulate 'double-tracked' guitar part. To use this feature, you must run RealRick two output version, RealRick (2 mono) or RealRick (2 stereo), depending on mono or stereo amps/FXs you are going to use. These plugins provide 2 outs in your DAW's mixer. In the DAW's mixer pan each output hard left and hard right, then add the amps/FXs of your choice on each channel.
6. Launching RealRick as a standalone version:
PC: In Start Menu go to *Programs/MusicLab RealRick 6* folder and click the RealRick icon.

MAC: Run *HD/Applications/RealRick*

MANAGING SOUND BANK

Note, the default 44-48 kHz sound bank will be installed.

If you change sample rate for your audio work to 88.2 kHz and higher RealRick will open dialog letting you download/install 96 kHz-native sound bank.



Click 'Yes' and bank will be automatically installed to the sound bank installation directory. To load new sound bank simply re-run RealRick.

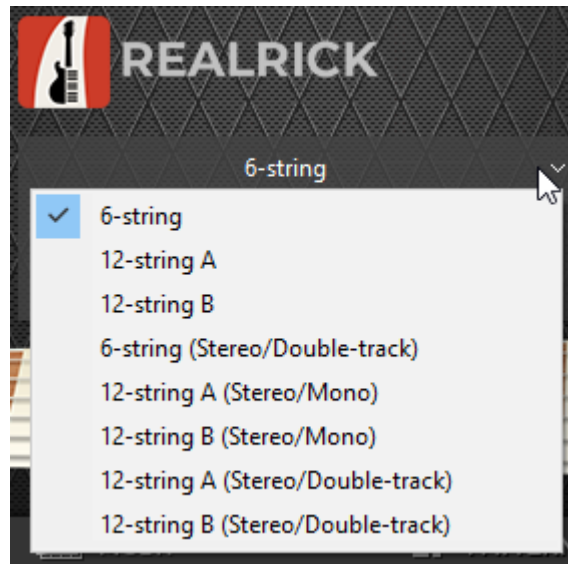
You can manually download and install 96 kHz sound bank from Start menu->All Programs->MusicLab RealRick

If you don't install the bank RealRick will use the default sound bank optimized to your audio system sample rate.

LOADING GUITAR PATCHES

RealRick installs three versions of RealRick soft instrument: **RealRick**, **RealRick (2 mono)**, **RealRick (2 stereo)**. **RealRick** is normal plugin with single stereo output, **RealRick (2 mono)** provides 2 mono outputs in your DAW, while **RealRick (2 stereo)** provides 2 stereo outputs respectively. Choosing between them depends on what guitar patch you are going to use.

Click the black screen combo box in the upper part of RealRick window to select the guitar patch from the list of available ones installed to RealRick Sound Bank.



RealRick features 6 guitar patches:

- 6-string - Mono
- 12-string A - Mono, 3rd string pair tuned in OCTAVE
- 12-string B - Mono, 3rd string pair tuned in UNISON

6-string (Stereo/Double-track):

- when loaded in RealRick single output version is a stereo guitar patch panned hard left and hard right (emulates 'Rick-O-Sound' stereo output)
- when used in RealRick two output version gives you the ability to produce double-tracked guitar parts (refer to [Double-Tracking](#) section of the Manual for details)

12-string A (Stereo/Mono) - Main (sustain) sound is Stereo, additional sounds are Mono

12-string B (Stereo/Mono) - Main (sustain) sound is Stereo, additional sounds are Mono

Note, Stereo patches must be used with amp. simulator presets having Stereo input.

About 12-string electric guitar

The 12-string electric guitar has been around for well over 50 years, with the first commercially produced instrument appearing in 1954 courtesy of Stratosphere, a

small company based in Springfield, Missouri, but the concept really took off in 1963 when Rickenbacker® introduced a multi-strung equivalent of its 360 semi.

12-string success was soon guaranteed via high-profile use by bands such as The Beatles (heard on almost every song of Hard Day's Night album) and The Byrds, heralding an era in the late sixties when virtually every electric guitar maker offered at least one 12-stringer. Some models prove to be more short-lived than others, but Rickenbacker's benchmark status has ensured consistent popularity and constant production that now spans five decades.

The twelve-string guitar has twelve strings in six courses (pairs). The courses are most often tuned E-A-D-G-B-E similarly to a six-string guitar. The lowest three courses (E-A-D) are normally tuned at octaves, while the upper two courses (B-E) are tuned to unison. The G course is either unison or at octaves.

RealRick 12-string guitar patches present either types of tuning, that is indicated with A or B symbol in the patch name.

12-string A and B tuning:

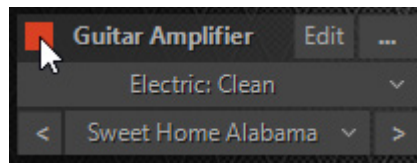
	A	B
1 (e)	unison	unison
2 (B)	unison	unison
3 (G)	octave	unison
4 (D)	octave	octave
5 (A)	octave	octave
6 (E)	octave	octave

(6 is the lowest in pitch)

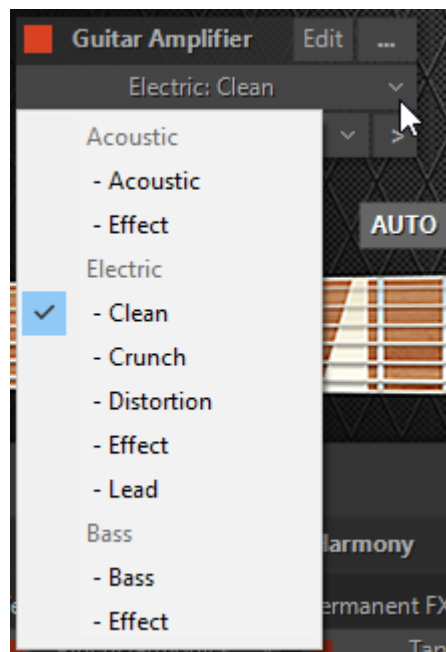
USING GUITAR AMPLIFIER

Our instruments host most popular guitar amp sim plug-ins inside. You can use our own guitar tone presets, create your own ones and recall them in one click without the necessity of leaving the instrument window.

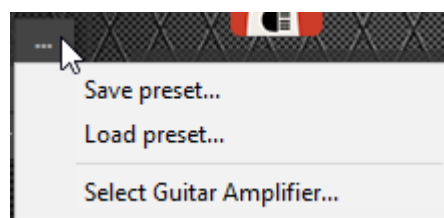
We have created over 200 guitar tone presets for open source Guitarix plug-in so that you don't have to purchase an additional guitar sim plug-in in case you don't have one already.



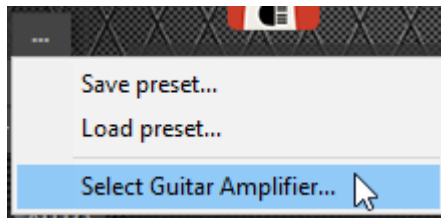
When you open RealRick, Guitar Amplifier is ON by default. You can turn it OFF by clicking on square button.



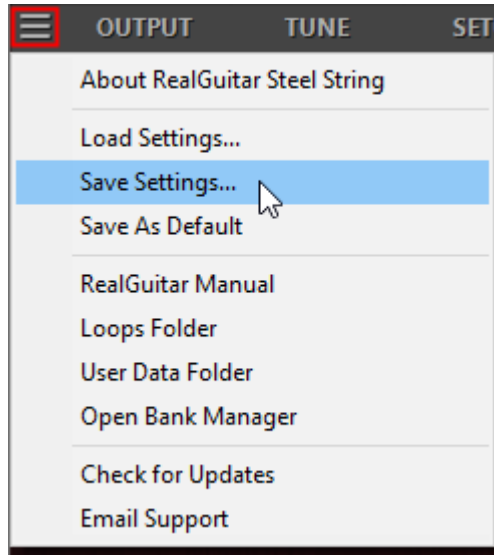
You can choose presets from three categories: Acoustic, Electric and Bass. Acoustic category offers two subcategories: Acoustic and Effect. Electric category offers five subcategories: Clean, Crunch, Distortion, Effect and Lead. Bass category offers two subcategories: Bass and Effect.



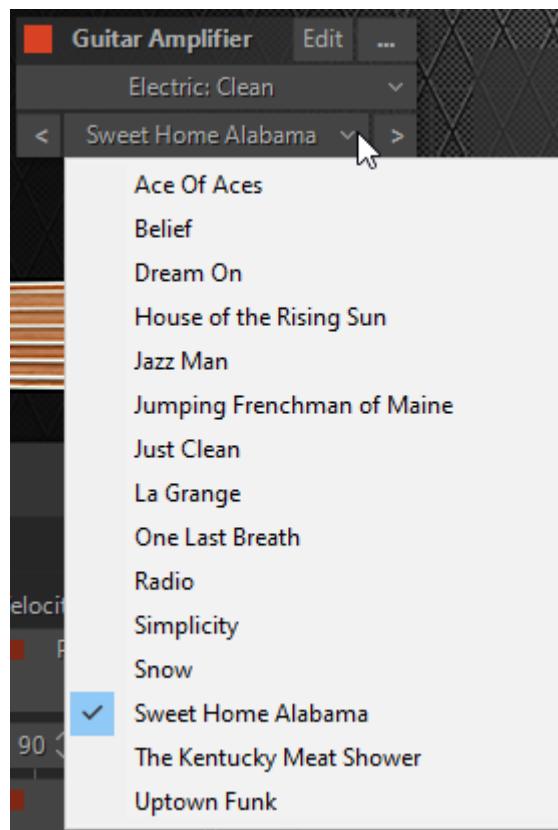
You can save and load guitar amplifier presets by clicking on "..." button.



By clicking "Select Guitar Amplifier" button you can select your preferred Guitar Amplifier.



Please note, when you save/load Guitar Settings file guitar amplifier preset information saves/loads as well.



Select presets by clicking on “<>” buttons. Click Edit button to finetune your Guitar Amplifier. You can add different blocks by clicking on “+” button. “-“ button deletes block.

VIRTUAL FRETBOARD

In RealRick we have realized the **Floating Fret Position** principle, which imitates change of fret position of a guitarist's hand on the neck. This gives a unique possibility of playing on up to 140 guitar frets using just 46 keys of a standard keyboard! This, along with the fact that we have sampled 22 frets of all six strings for all of our RealRick sounds, allows you to emulate a guitar performance with maximum sonic accuracy.

In the center of the RealRick window is the virtual **Fretboard**, one of the important elements of the plug-in, which allows you to visualize and control the Floating Fret Position while playing the guitar part.



The Fretboard has a number of functions:

1. **Preview** - allows audio previewing the loaded guitar patch by simply clicking on strings.
2. **Display notes** - shows the performed notes (with names) in accordance with visual representation on the fretboard and real sound (you see the notes displayed on string and fret of exactly the same sound samples currently playing).
3. **Fret Position Auto** control (the **Auto** button is pressed) - realizes automatic fret position change in Solo and Harmony modes, which moves the 'Capo' strip along the Fretboard depending on the sequence of performed notes.
4. **Fret Position Manual** control (the **Auto** button is released) - allows manually changing fret position by right clicking on any fret. A 'Capo' strip will appear on the fretboard, which will prevent playing samples from any fret lower on the neck than the 'Capo' position (except for the 6th string).

VIRTUAL KEYBOARD

In the lower part of RealRick window you see a virtual keyboard that visualizes RealRick keyboard layout (Main and Repeat zones), indicates activated Key Switches in Solo mode, and shows all MIDI notes incoming to RealRick or played on virtual fretboard with a mouse:



Additionally, virtual keyboard duplicates the external MIDI keyboard input, so everything you can play by MIDI can be produced on virtual keyboard with a mouse. Shift-clicking will hold down the pressed key allowing to preview chords/Key Switch FXs.

Hold Pedal button at the right visualizes Hold Pedal controller (CC#64) MIDI activity, as well as serves as toggle for switching Hold Pedal on/off Hold Pedal.

Pitch Wheel and Modulation Wheel indicators at the left visualize Pitch Bender and Modulation controllers MIDI activity.

REALRICK GLOBAL MODES

RealRick 6 provides 4 Global Modes implementing different working methods:

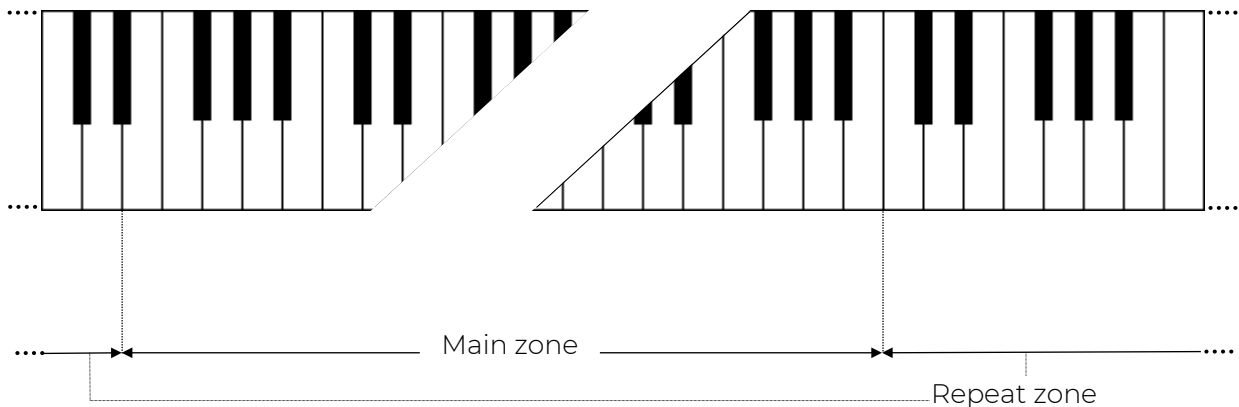


1. **MIDI Keyboard** - MIDI keyboard/MIDI track input
2. **Multi** - a universal mode allowing you to perform various guitar accompaniment techniques that use chords, such as Strumming, Bass and Strum, Bass and String picking, and much more.
3. **Pattern** - automatic accompaniment using rhythm patterns from MusicLab Guitar Pattern Library
4. **Song** - songwriting tool featuring the built-in Song track where you can insert chords and patterns to construct the complete guitar accompaniment part

MIDI KEYBOARD GLOBAL MODE

USER KEYBOARD LAYOUT

When connected to RealRick MIDI input the external keyboard is divided into 3 zones: **Main zone** (E1 - B4), left (C0 - D#1) and right (C5 – C7) **Repeat zones**.



In Solo mode **Main zone** extends to C1-D5.

Main zone serves for playing melodic parts (Solo and Harmony modes) and entering chords (Chords, Bass & Chord, Bass & Pick modes).

Any key of the Repeat zone repeats notes and chords played in the Main zone.

This way of keyboard mapping allows you to play guitar parts with 2 hands - you play various notes or chords in the Main zone with one hand and repeat them by pressing the pre-mapped keys in Repeat zone with the other hand without changing its position. This is very important for carefully preserving rhythm pattern accuracy and groove feel.

Using such a performance technique you can easily imitate the most characteristic details of guitar performance, such as tremolo, strumming, bass and strum, picking on your keyboard making them sound naturally as if they were played on a real guitar.

Repeat Key zone functions:

- In Solo, Harmony, Chords, and Bass & Chord modes you can repeat notes and chords played in the Main zone (any white key repeats the full sound, while black key repeats the muted sound). Also, with the keys of Repeat zone you can alternate up/down/muted strokes to produce strumming and tremolo techniques (C, E, G – trigger up stroke; D, F, A - down stroke; C#, F#, A# - muted up stroke; D#, G# - muted down stroke) with both single notes and intervals/chords.
- In Bass & Chord mode you can trigger Bass I (Root) and Bass II (alternative bass) notes as well as upper string strums

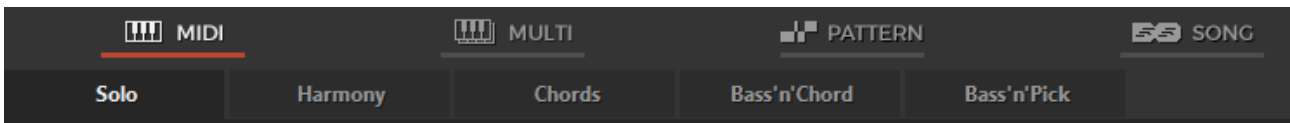
- In Bass & Pick mode Repeat keys trigger individual voices (strings) of a chord taken in the Main zone.
- In Solo mode Repeat keys, when activated in Key Switch panel, can also be used as Key Switches to switch on various FXs.

PERFORMANCE MODES

RealRick MIDI Keyboard Global Mode includes 5 separate guitar performance modes, each of which is a separate performance tool meant for imitating special guitar performance style:

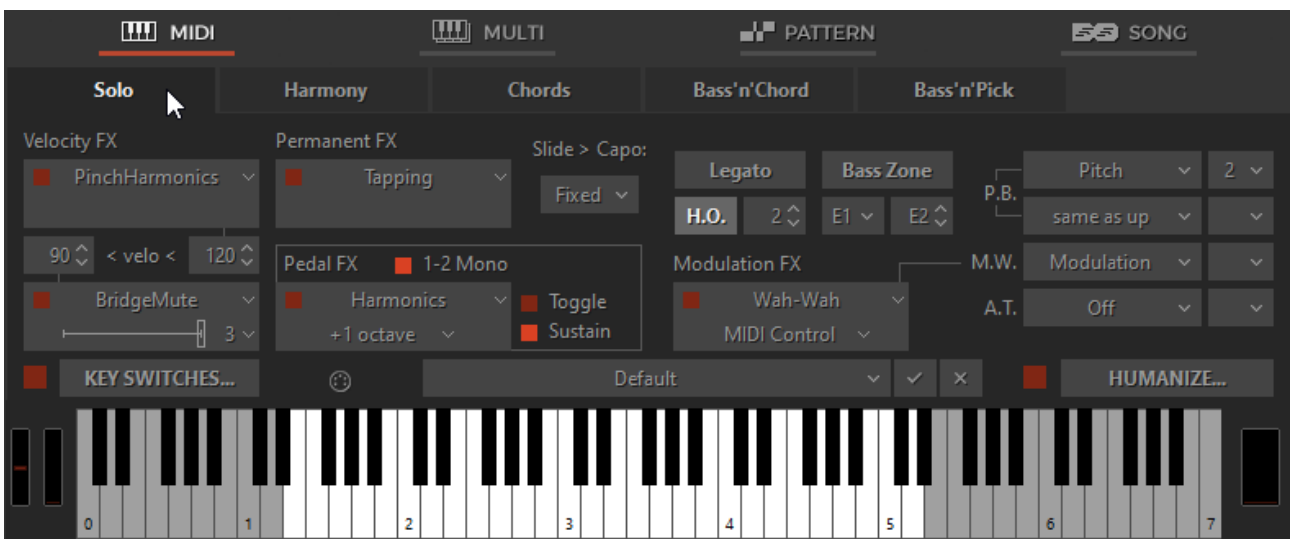
1. **Solo** - polyphonic mode for performing melodic parts.
2. **Harmony** - monophonic mode for performing parallel interval melodic parts.
3. **Chords** - chord mode for performing accompaniment strumming parts.
4. **Bass & Chord** - chord mode for performing bass and strum parts.
5. **Bass & Pick** - chord mode for performing picking/plucking parts.

The performance modes are selected by clicking on a respective tab:

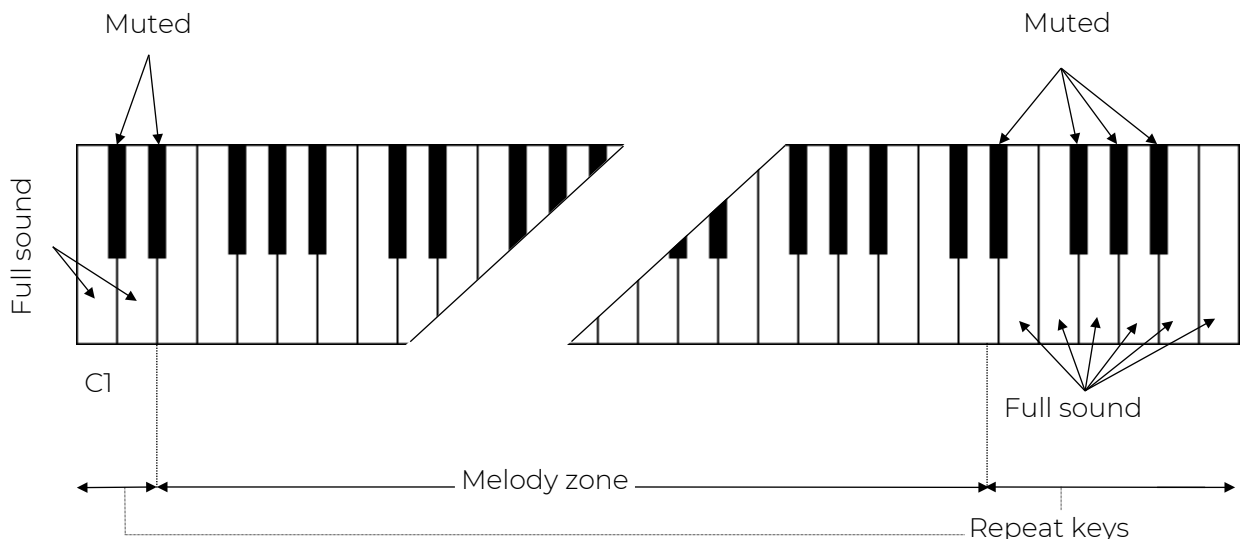


SOLO MODE

Click Solo tab to switch on the Solo performance mode.



Solo mode window



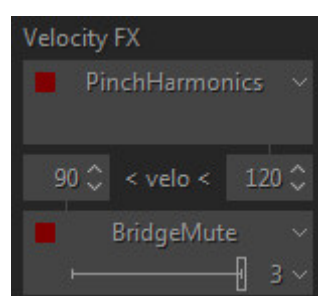
In this mode the Main zone (E1 – D5) of the keyboard works as a normal polyphonic keyboard, while both Repeat Key zones (left (C0 - D#1) and right (D#5 – C7)) allow you to repeat notes taken on the Main zone (white keys repeat full sound; black keys repeat muted sound of the same notes).

CONTROLS

RealRick Solo mode provides you with multiple permanent and switchable controls allowing you to easily add various specific guitar articulations and effects to your performance.

VELOCITY SWITCH EFFECTS

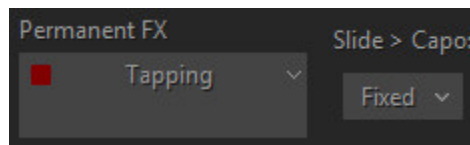
On the left lower part of Solo panel you see **Velocity Switch FX** section including two FX boxes:



Using the Velocity Switch FX controls, two FXs can be dynamically engaged depending on the velocity of the MIDI notes played. For low velocity notes, set the numeric box on the left side to the threshold at which notes played at a lower velocity will trigger the FX selected in the lower FX selector. For high velocity notes, set the numeric box on the right side to the threshold at which notes played at a higher velocity will trigger the FX selected in the upper FX selector. As notes are played below or above the two thresholds, the two FX selector boxes will change to a light grey color to indicate they are being

engaged. As with all FX selectors, each of the two Velocity Switch FX selector boxes have a FX Enable LED button so you can enable one, both or neither.

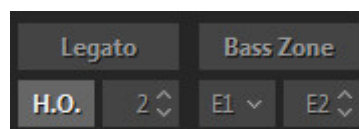
PERMANENT EFFECTS



Permanent FX Box - allows selection of Effect in the pull-down menu and activate it by clicking on **FX Enable** LED button in the upper left corner.

Slide > Capo - controls the movement of the capo along the fretboard while performing either a Slide or Hammer-On effect. You can select any of 3 modes in a Slide>Capo combo box:

- **Fixed** - Capo is not affected. All notes will be played to the right of Capo position moving from string to string (except for the notes on the 6th string which the capo does not affect).
- **Ignore** - Capo is not affected. Slides ignore Capo position; notes will be performed along the string moving to another string only in case of reaching first or last fret.
- **Move** - Capo moves with Slide or H.O. (Hammer-on) notes along the fretboard.



Legato - enables producing notes played legato within semi-tone or whole-tone from each other without triggering attacks and being in mono mode (next will mute previous). The effect is as if the notes were played on the same guitar string when only the first note is picked and the following notes are played by the left hand alone.

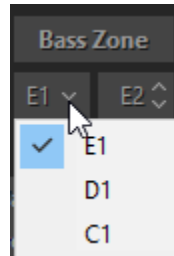
H.O. - enables Hammer-On Effect with automatic Pull-Off on key release, affected note range is specified (in semi-tones) in numeric box.

Bass Zone - splits the Main Zone of keyboard into two parts to allow individual performance techniques for each part. The Bass Zone button is toggled on and off. There are two additional combo boxes to set the lower note (E1, D1 or C1) and the upper note (ranging from E1 to E4) of the zone. Bass zone notes have a stronger velocity curve and are NOT affected by:

- **Mute keys** - this allows performing mutes and repetitions on the notes played outside Bass zone without cutting bass notes.

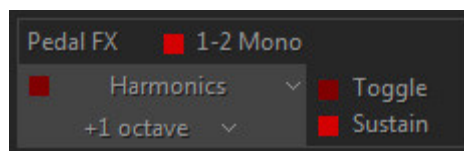
- **Velocity Switch FX** - this allows applying velocity switches only to notes played outside Bass zone while playing bass notes without the velocity switch.

Left combo box works independently of Bass zone button and allows **Drop D** and **Drop C** tuning in Solo mode by selecting the D1 or C1 as the lower note for the 6th string.



PEDAL SWITCH EFFECTS

You can trigger various RealRick Effects selected in **Pedal Switch FX** box by pressing normal Sustain Pedal controller.



Pedal Switch FX box has five different controls:

- 1-2 Mono LED (On/Off)
- FX Enable LED (On/Off)
- FX Selection pull-down menu
- Toggle LED (On/Off)
- Sustain LED (On/Off)

1-2 Mono:

On - sustains all notes except for the notes played at a semi-tone or whole-tone interval (step-wise melodic run): the next note 1-2 steps apart mutes the previous one as if played on the same guitar string, while the thirds and larger intervals are being sustained.

Off - pedal sustains all notes played non-legato, and legato (in the case Hammer-On and Legato FXs are off).

FX Enable LED indicates if the Pedal FX is enabled or not. When LED is On, the FX is enabled when the Sustain Pedal is pressed.

FX Selection pull-down menu selects which FX is controlled by the Sustain Pedal.

Toggle:

On - indicates that the FX is toggled on and off each time the Sustain Pedal is pressed.

Off - indicates that the FX is only enabled when the Sustain Pedal is kept pressed. When the Sustain Pedal is not pressed, the FX is not enabled.

Sustain:

On - indicates that the Sustain Pedal both turns on the FX as well as sustains notes.

Off - indicates that the Sustain Pedal controls only the FX, and no notes are sustained.

MODULATION SWITCH EFFECTS



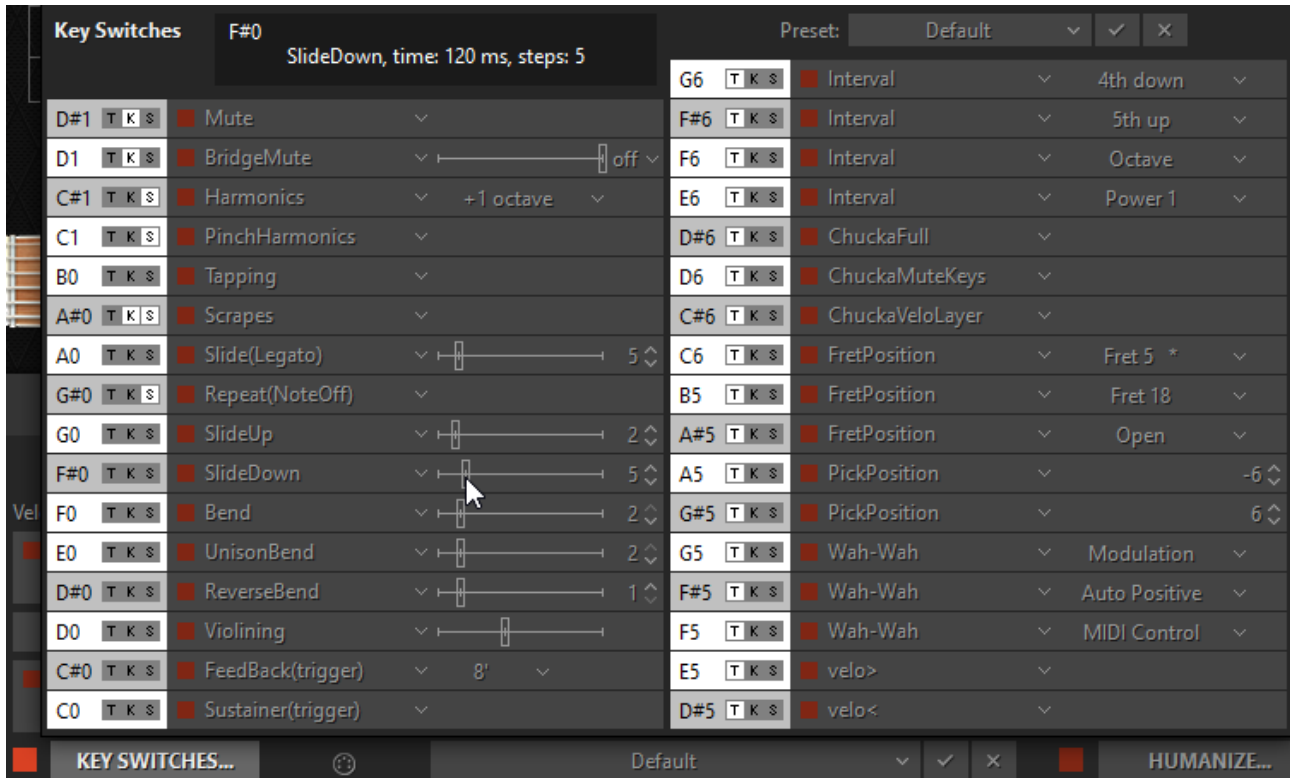
You can switch on various RealRick Effects selected in **Modulation Switch FX** box by simply moving normal Modulation Wheel of your MIDI keyboard. Releasing Modulation Wheel to '0' position turns the Effect off.

Note, when Modulation FX box is activated effect assigned in M.W. box at the right will not work.

KEY SWITCH EFFECTS

RealRick numerous guitar Effects can be triggered in Solo mode using the advanced Key Switch system allowing to assign various FXs on Repeat Zone keys as well as easily create and use custom presets in RealRick **Key Switch panel**.

To open Key Switch panel, click on Key Switches button on the left lower part of Solo mode window:



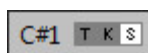
Key Switch panel

You see two columns of FX boxes corresponding to Left and Right Repeat Zone keys (C0-D#1 for the Left zone, D#5-G6 for the Right zone).

Select Effect for a key in pull-down menu and click **FX Enable LED** button in the left part of FX box to activate it. Now pressing the correspondent key of Repeat zone will turn on selected FX, and change the box color to a light grey to indicate that FX is turned on.

Note, that activating **FX Enable LED** of any key switch will also be displayed on the RealRick virtual keyboard. Moreover, triggering FX will also change color of a virtual keyboard key to a light blue, giving you full visual control.

Three small buttons (clickable on/off) at the left of each FX box allow additional control of the Key Switch and FX:



'T' button ('toggle'):

On - indicates that the FX is toggled on and off each time the key switch is pressed (releasing the key is ignored).

Off - indicates that the FX is only enabled while the key is kept pressed (releasing the key turns the FX off).

'K' button ('key through') - when activated allows to switch FX and let the key switch simultaneously function as normal Repeat key (white for Full sound, black for Muted sound).

'S' button ('sustain') adds sustain function to FX, similar using the Sustain Pedal.

Note, Right Key Switches (Right Repeat zone) are 'toggles' by default, while Left Key Switches (Left Repeat zone) are not.

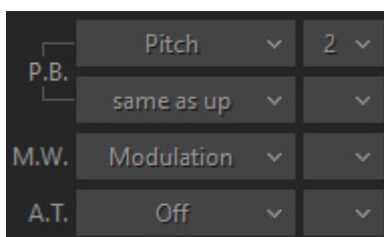
You can save all settings made in Key Switch panel as user presets for future use.

To create a preset, click on Preset combo box to activate Edit mode, type in the preset name, and press Enter on computer keyboard. Preset will be saved within RealRick and added to Preset list.



To delete preset simply click on Delete icon at the right.

MIDI CONTROLLER PANE (SOLO MODE)



You can assign various guitar effects to standard MIDI controllers:

- **P.B. Up** (Pitch Bender, upper combo box) - Off, Pitch, Slide, VeloAdd, MonoBend, Sustainer (triggers Sustainer FX simultaneously with pitch shifting).
- **P.B. Down** (Pitch Bender, lower combo box) - 'same as Up', Pitch, Slide, VeloAdd, MonoBend, Sustainer (triggers Sustainer FX simultaneously with pitch shifting).
- **M.W.** (Modulation Wheel) - Pitch, Slide, Modulation.
- **A.T.** (After Touch) - Pitch, Modulation, Sustainer, FeedBacker.

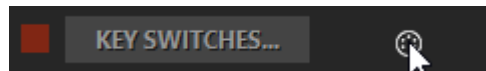
In the combo box to the right adjust the maximum range of pitch shifting/sliding (in semi-tones). Modulation envelope is adjusted in Tune panel (Left Menu bar in the upper left corner of RealRick window).

HOLD BUTTON IN SOLO MODE

In Solo mode the Hold button works differently from the other modes, where it actually substitutes the Sustain Pedal. In Solo mode when Hold button is on, any pressed and held key can be used for sustaining the following notes.

MIDI GUITAR MODE

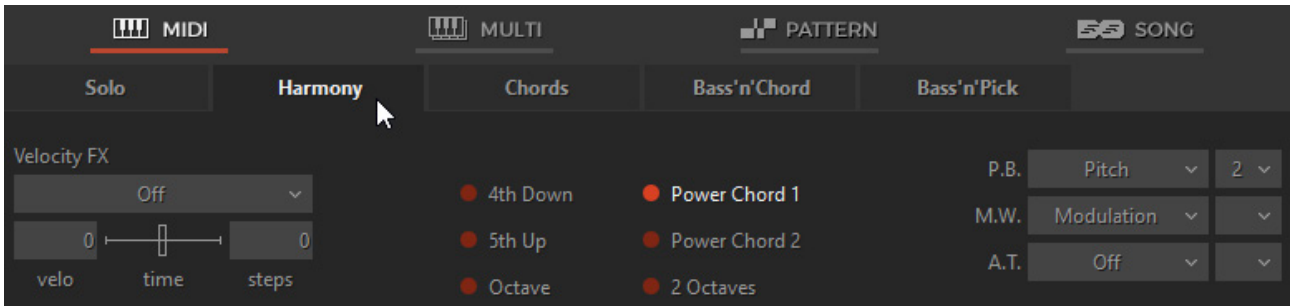
If you prefer to use normal guitar via MIDI interface instead of MIDI keyboard you can switch to MIDI Guitar mode by activating Guitar button in Solo performance mode.



MIDI Guitar mode has multi-channel MIDI input: 1-6 MIDI channels for 1-6 guitar strings accordingly, with each string/channel having independent pitch bend control, though Modulation, Aftertouch MIDI controllers, and all other FX are common for all strings.

MIDI Guitar mode allows you to step record the guitar part with a pencil tool in your DAW on individual track/MIDI channel for each string. Note, that notes in a track going out of the appropriate string range will be played on the nearest string.

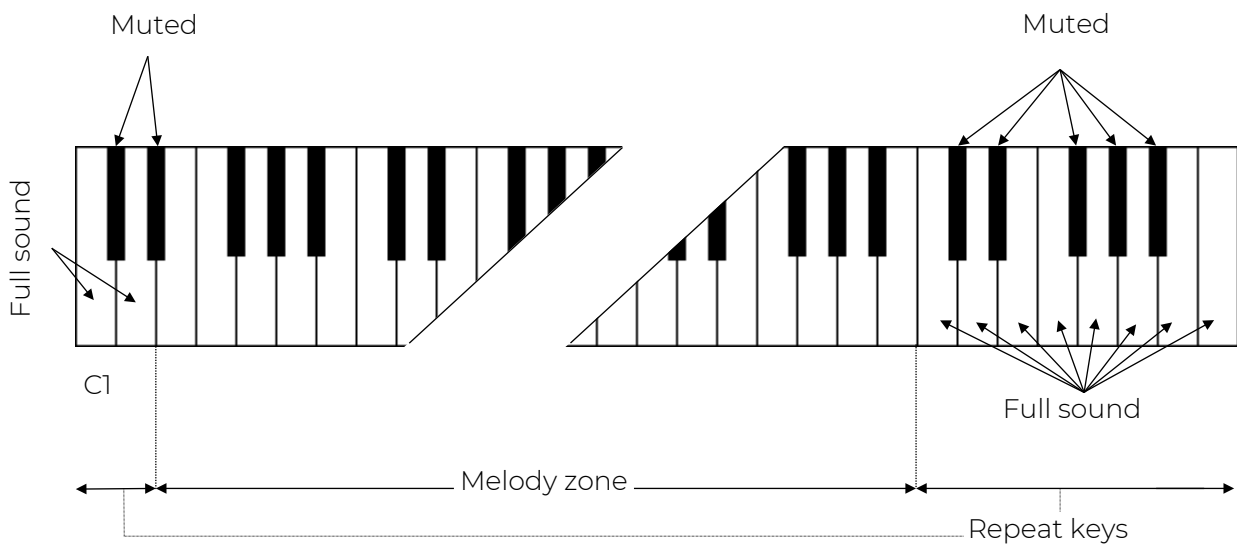
HARMONY MODE



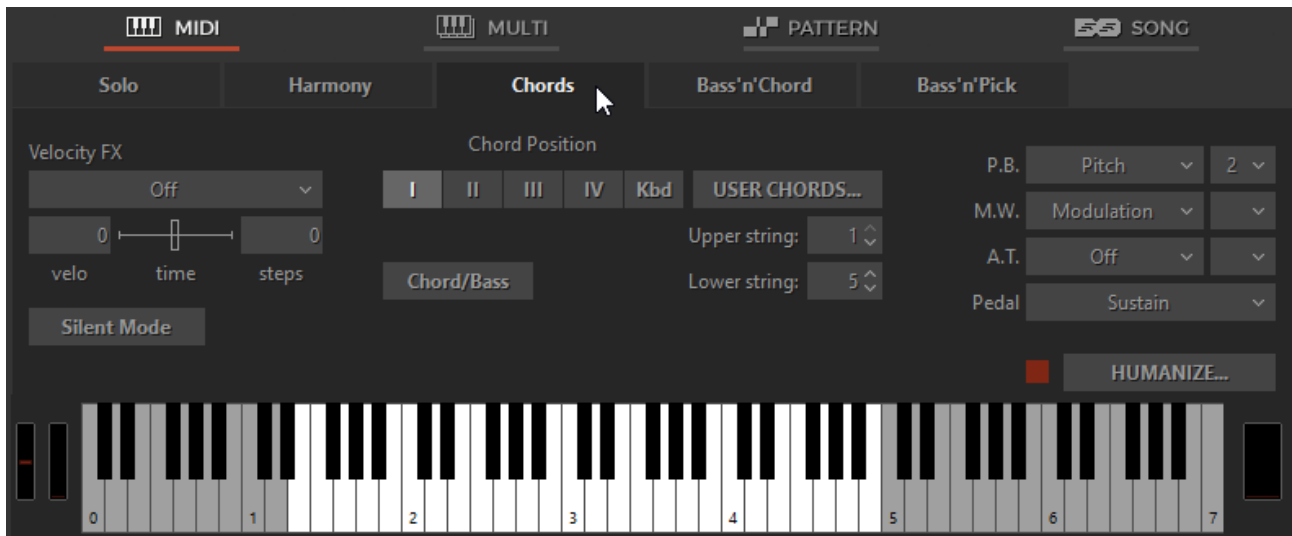
Harmony mode window

In this monophonic mode any key of the Main zone triggers an interval/chord based on the played note, previously chosen from following options: 4th down, 5th up, Octave (up), Power Chord 1 (5th + 4th up), Power Chord 2 (4th + 5th up), 2 octaves (up).

The keys of both Repeat zones (left and right) allow you to repeat the interval taken in the Main zone (white keys repeat full sound, while black keys repeat muted sound of the same notes).



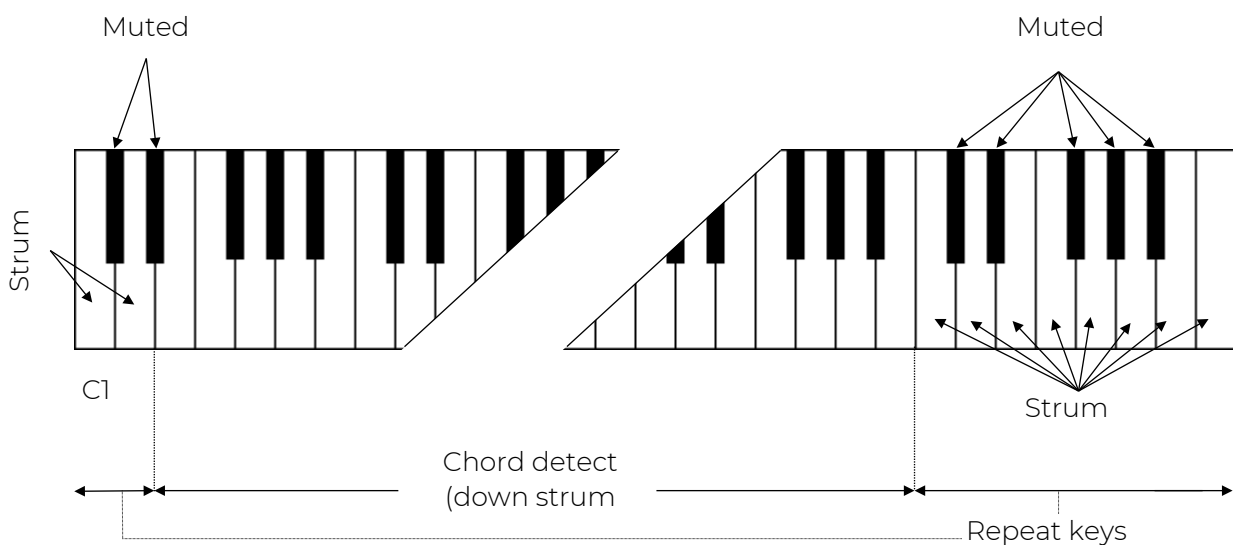
CHORDS MODE



Chords mode window

In this mode RealRick detects the chord played in the Main zone of the keyboard (the root note and the name of the chord appear on the black info screen), builds a guitar version of the chord considering the selected Chord position and current position of a 'Capo' strip on the Fretboard, and finally plays it using a down strum technique.

Any key of Repeat zone repeats the whole chord played in the Main zone: black keys play muted strums, while white keys play strums when the chord is still held and muted strums when the keys in the Main zone are released. Up and down strums are triggered by neighboring keys for both white and black keys of the Repeat zones, like C1 - up strum, D1 - down strum, C6 - down strum, B5 - up strum and so on.



CONTROLS



Chord position - selects the melodic position range for the built chords.

I - the highest note is between E₃ and G_{#3}

II - the highest note is between G₃ and B₃

III - the highest note is between A_{#3} and D₄

IV - the highest note is between C_{#4} and F₄

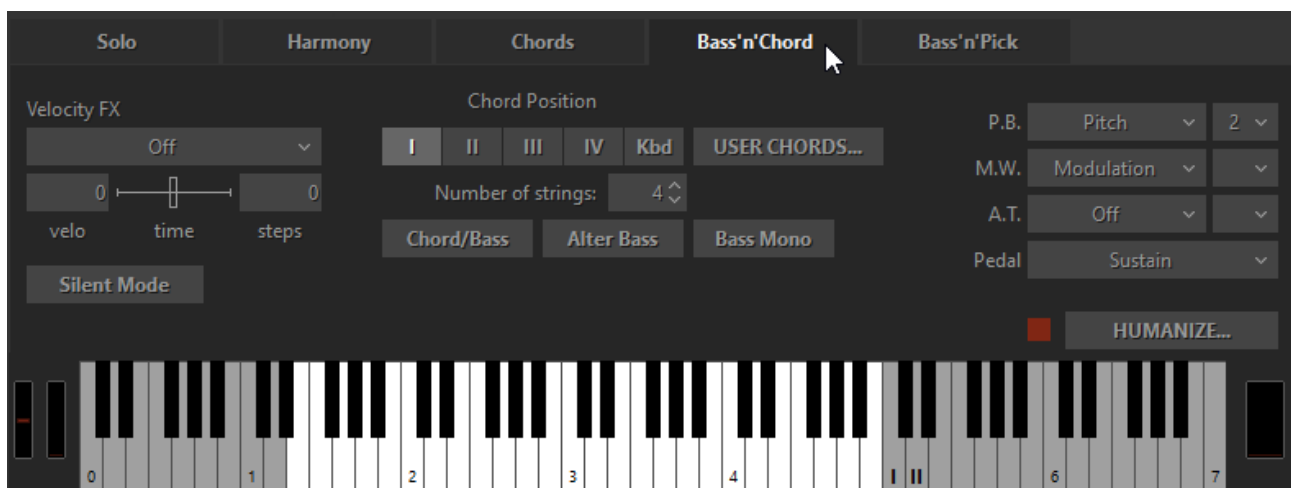
Kbd - the melodic position range of the built chord depends on the octave position of the chord taken in the Main zone of the keyboard (with borders between E and E of the next octave).

User Chords - opens Chord Editor.

Upper/Lower Strings - allow disabling upper and/or lower strings in chords, so you can pare your strums down to any five, four, three, two or just a single string by selecting the first available string# in upper/lower numeric boxes (e.g. selecting 2/5 will disable the 1st and 6th strings in the strums).

Chord/Bass - switches on the X/Y chord detect mode letting you construct major/minor triad chords with any desirable note in the Bass, e.g. A/G (A major chord over G bass) for G-A-C_#-E voicing, D/F_# (D major chord inversion with F_# bass note) for F_#-A-D voicing, F/G (F major chord over G bass) for G-A-C-F voicing, etc...

BASS & CHORD MODE

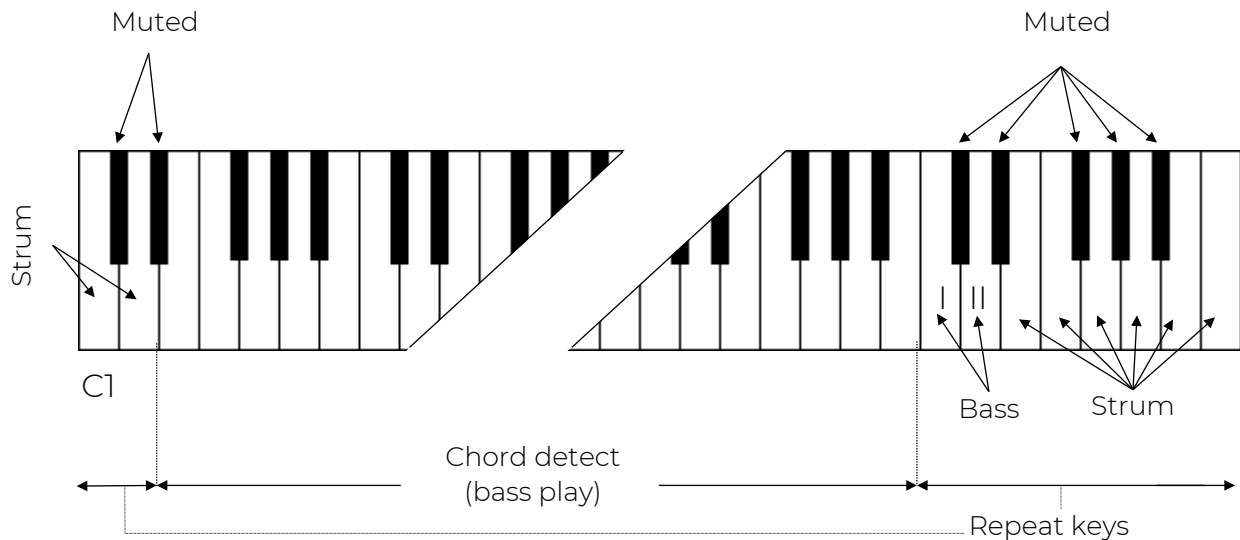


Bass & Chord mode window

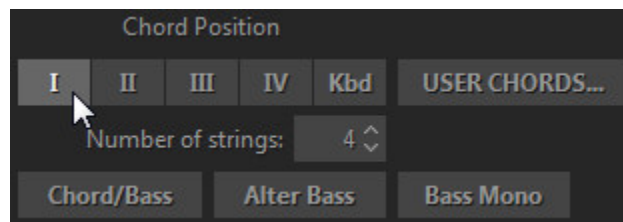
In this mode RealRick detects the chord taken in the Main zone of the keyboard, builds its guitar version and plays its Root note (Bass I) only. The Repeat zone keys now have the following functions:

- C5 triggers Bass I (Root note).
- D5 triggers Bass II (Alternative bass, usually the 5th degree of the chord).

The rest of the keys in both right and left Repeat zones trigger up and down strums of the upper strings of the chord, black keys perform muted strums of the same strings).



CONTROLS



Chord position - selects the melodic position range for the built chords.

User Chords - opens Chord Editor

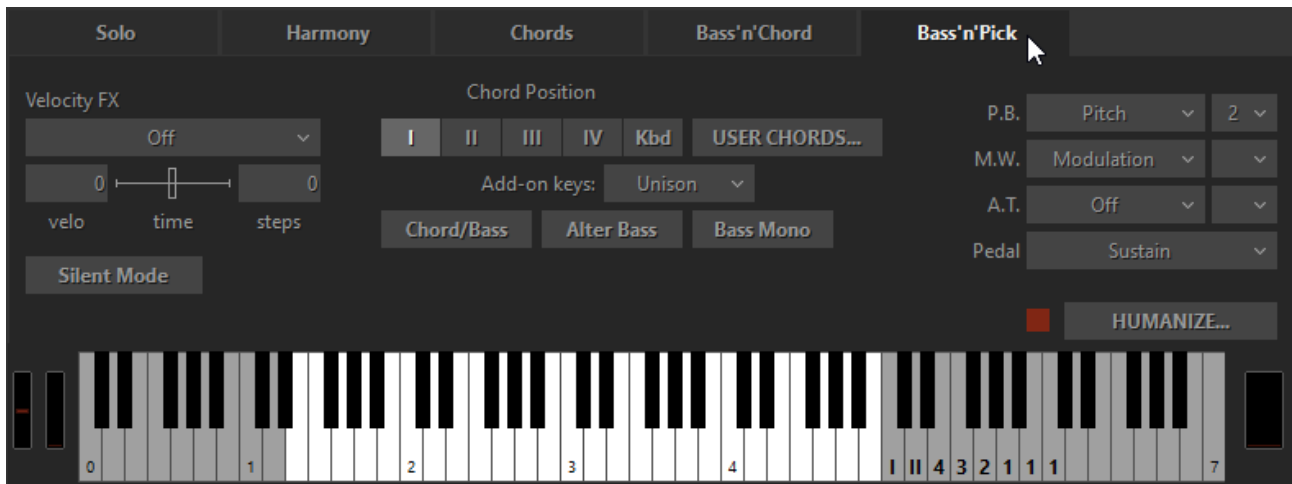
Number of Strings - specifies the number of sounding strings in chords triggered by Repeat zone keys.

Chord/Bass - switches on the X/Y chord detect mode letting you construct major/minor triad chords with any desirable note in the Bass.

Alter Bass - automatically alternates between Bass I and Bass II when the same chord is taken in the Main zone.

Bass Mono - mutes Bass I note when the next Bass II is played.

BASS & PICK MODE



Bass & Pick mode window

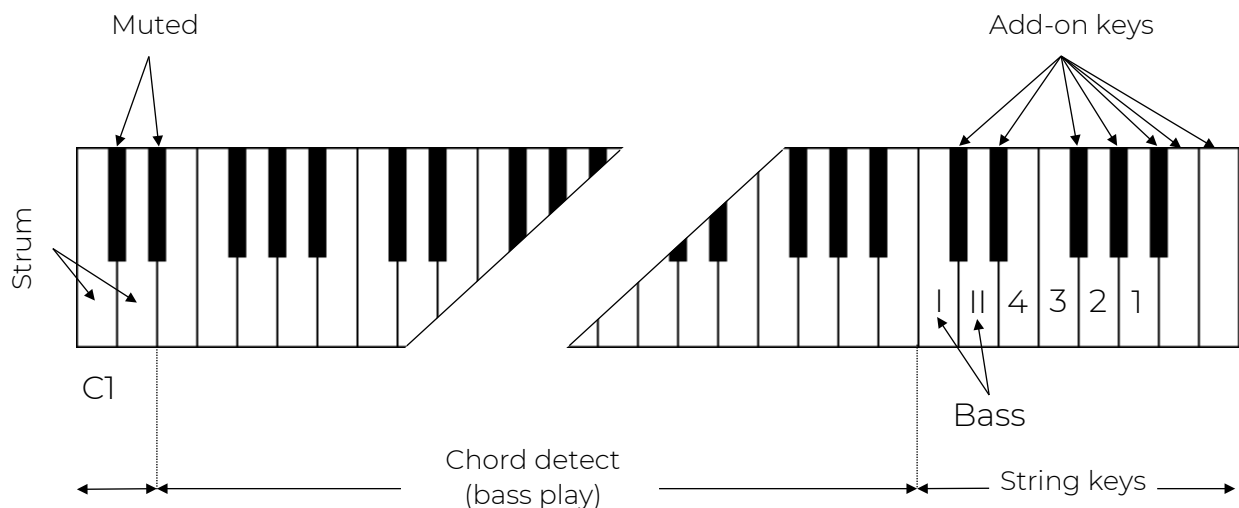
In this mode RealRick identifies the chord taken in the Main zone, builds its guitar version and plays only its Root note (Bass I).

The Repeat zone keys trigger each voice of the chord separately, just as if you'd play it string-by-string on real guitar in the following way:

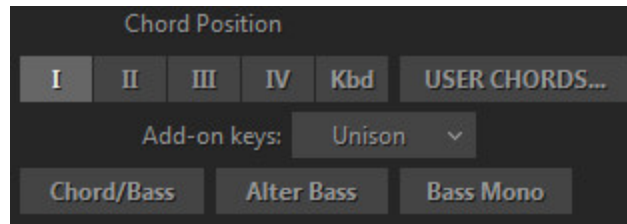
- C5 triggers Bass I (Root note)
- D5 triggers Bass II (alternative bass)
- E5 triggers 4th string
- F5 triggers 3rd string
- G5 triggers 2nd string
- A5 triggers 1st string

The other keys function as chosen in the **Add-on string keys** combo box.

The keys of the left Repeat zone strum 4 upper voices of the chord (black keys perform muted strums).



CONTROLS



Chord position - selects the melodic position range for the built chords.

User Chords – opens Chord Editor

Add-on string keys:

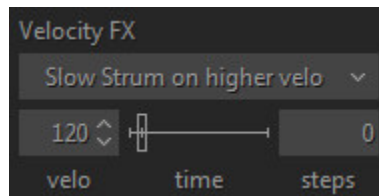
- **Unison** - doubles some strings for making single-string tremolo performance easy: C#5 - Bass II, D#5 - 4th string, F#5 - 2nd string, G#5, A#5, B5, C6 - 1st string.
- **Chromatic** - sets the Add-on string keys to play notes one semi-tone down from their respective string voices: C#5 - a semi-tone down from Bass II, D#5 – a semi-tone down from 4th string, F#5 - a semi-tone down from 2nd string, G#5 - a semi-tone down from 1st string; however A#5 - C6 add a semi-tone each to the sound of 1st string.
- **Mute** - all add-on keys trigger Muted chord.
- **Harmonics** - Add-on black keys (C#5 through A#5) trigger Harmonics for current chord notes.
- **Pinch Harm** - Add-on black keys (C#5 through A#5) trigger Pinch Harmonics for current chord notes.

Chord/Bass - switches on the X/Y chord detect mode letting you construct major/minor triad chords with any desirable note in the Bass.

Alter Bass - automatically alternates between Bass I and Bass II when the same chord is taken in the Main zone.

Bass Mono - mutes Bass I note when the next Bass II is played.

VELOCITY SWITCH FX (HARMONY, CHORDS, BASS&CHORD, BASS&PICK)



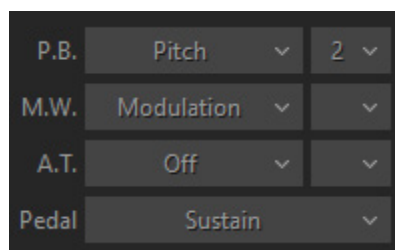
There are a number of guitar effects automatically triggered by note velocity values employed in RealRick:

- **Slow Strum on Higher Velo** - in all chordal modes you can set a velocity value, after which the program will perform slow strum when playing a chord in the Main zone.
- **Slow Strum on Lower Velo** - in the same way you can set a velocity value below which the program will perform slow strum when playing a chord in the Main zone.
- **Slide up** - slides up to taken note(s).
- **Slide down (Fall)** - slides down from taken note(s).

You can set the following independent parameters for each effect:

- **Velo** (input velocity threshold).
- **Time** (effect duration).
- **Steps** (range in semi-tones).

MIDI CONTROLLERS PANE (CHORDS, BASS&CHORD, BASS&PICK)



You can assign various guitar effects to standard MIDI controllers:

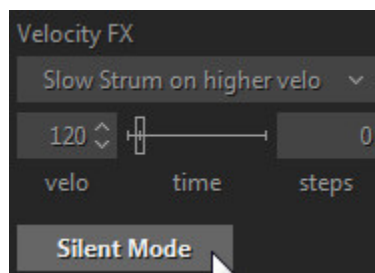
- P.B. (Pitch Bender) - Pitch, Slide, VeloAdd.
- M.W. (Modulation Wheel) - Pitch, Slide, Modulation.
- A.T. (After Touch) - Pitch, Modulation.

In the combo box to the right adjust the range of the effect (in semi-tones).

Modulation envelope is adjusted in Tune panel (Left Menu bar in the upper left corner of RealRick window).

- Pedal - you can use Sustain Pedal to switch various effects on:
 - Sustain - normal sustain mode.
 - ChuckaFull - switches on ChuckaFull FX.
 - ChuckaMutes - switches on ChuckaMutes FX.
 - ChuckaMute Sust - switches on ChuckaMutes FX, simultaneously sustains the sound.
 - Open Strings Lock - switches on Open Strings Lock FX (open strings used in the current chord will stay in voicings of the next chords, until the FX is Off).

SILENT MODE (CHORDS, BASS&CHORD, BASS&PICK)

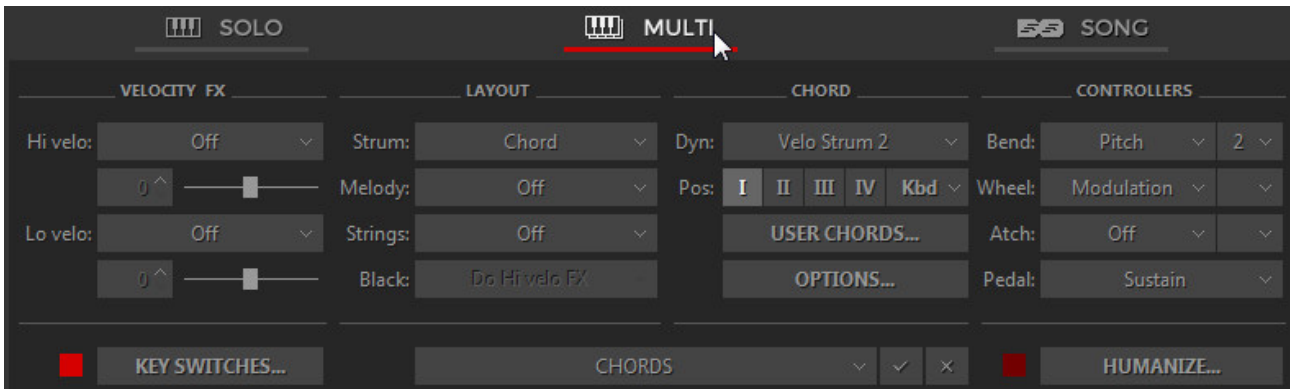


All chordal modes allow to use 'silent' mode by activating Silent mode button. When Silent mode is on, the keys in the Main zone don't make any sound, they just define the chords; all strumming and picking is done with keys in the Repeat and Pattern zones. You can use this option any time you want to control chord definition and strumming/picking independently.

MULTI GLOBAL MODE

Multi mode is a universal mode allowing you to easily assign various guitar techniques you want to produce on the keys of Main and Repeat keyboard zones, such as strumming, muting, and individual string picking. You can also create custom performance modes by combining different techniques in a single set and adding many specific guitar effects, articulations, and additional sounds to the performance.

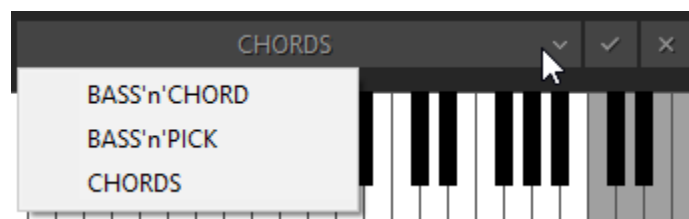
Click Multi tab to open Multi mode window.



PERFORMANCE PRESETS

On the lower central part of Multi mode window you see the Preset combo box

The most popular guitar accompaniment techniques that use chords are Strumming, Bass and Strum, and Picking ones. You can find the appropriate presets in Multi mode Preset combo box.



Chords - refer to [Chords Mode](#) for details.

Bass'n'Chord - refer to [Bass&Chord Mode](#) for details.

Bass'n'Pick - refer to [Bass&Pick Mode](#) for details.

Preset combo box also allows you to save all settings made in Multi mode window and create your custom performance presets for future use.

Simply click the combo box, type in the name, and press Enter.

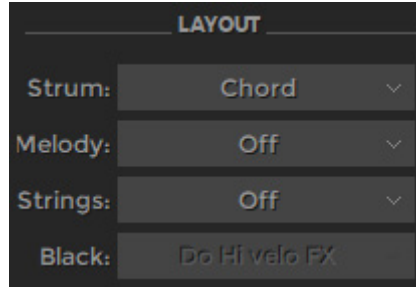
Upper part of Multi mode window presents four parameter sections: Velocity FX, Layout, Chord, and Controllers.

Most important is Layout section, including main performance setups and controls.

LAYOUT SECTION

Layout section includes four combo boxes titled **Strum**, **Melody**, **Strings**, and **Black**.

Note, selecting an item in any section will give you access to its additional options at the right.



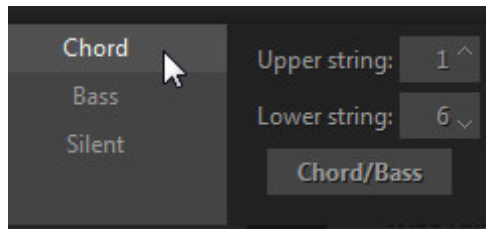
STRUM

Strum combo box features Chord, Bass, and Silent selections.

CHORD

With Chord setup, RealRick detects the chord played in the Main zone of the keyboard (the root note and the name of the chord appear on the black info screen), builds a guitar version of the chord, and plays it using a down strum technique.

Chord options:

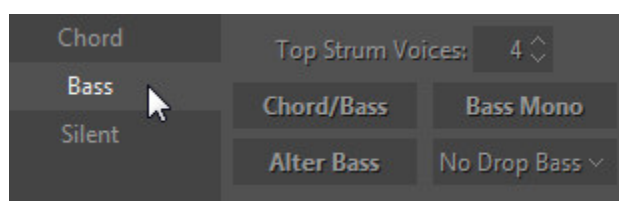


- Upper/Lower String - allow disabling upper and/or lower strings in played chords.
- Chord/Bass - switches on the X/Y chord detect mode letting you construct major/minor triad chords with any desirable note in the Bass.

BASS

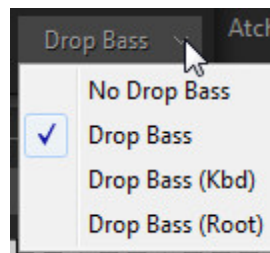
With Bass setup, RealRick detects the chord taken in the Main zone of the keyboard, builds its guitar version, and plays its Root note (Bass I) only.

Bass options:



- Top Strum Voices - specifies number of strings in chords triggered by Repeat zone keys.
- Chord/Bass - switches on X/Y chord detect mode letting you construct major/minor triad chords with any desirable note in the Bass.
- Bass Mono - mutes Bass I note when next Bass II is played.
- Alter Bass - automatically alternates between Bass I and Bass II when same chord is played in the Main zone.
- Drop Bass - lowers Bass I (Root) note by octave to be played on the lowest string possible for current chord position.

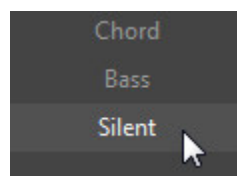
Drop Bass option has four selections - Off, On, Kbd, and Root.



With Drop Bass (Kbd) and Drop Bass (Root) options dropping Bass I note depends on the position of the chord notes played in Main zone or its Root note pitch:

- Drop Bass (Kbd) - Drop Bass will be applied if the majority of chord notes are lower in pitch than E3.
- Drop Bass (Root) - Drop Bass will be applied if the Root note of the chord is lower in pitch than E note.

SILENT

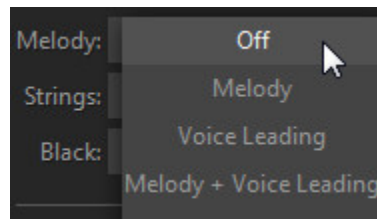


With Silent setup, the keys in the Main zone do not make any sound - they just define the chords; all strumming and picking is done with keys in the Repeat zone. You can use the option any time you want to control chord definition and strumming/picking independently.

MELODY

Melody setup allows you to play solo licks or bass lines in Main zone without switching from Chord mode or jumping to different position on keyboard, and even move individual voices within the played chord.

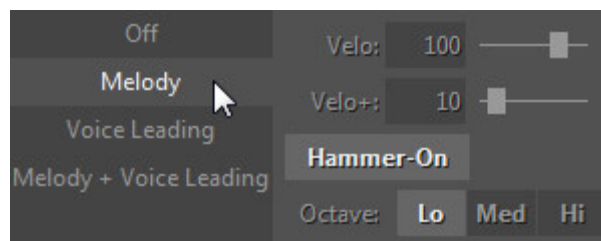
Melody combo box features four selections: Off, Melody, Voice Leading, and Melody + Voice Leading.



Melody

When in Chord setup, you can easily alternate between chord strums and melody licks in Main zone by changing the velocity of the played notes. Higher velocity will produce chord strums, while lower velocity will produce individual notes (i.e. real pitches you press on the keyboard). The velocity is completely user definable.

Melody options:

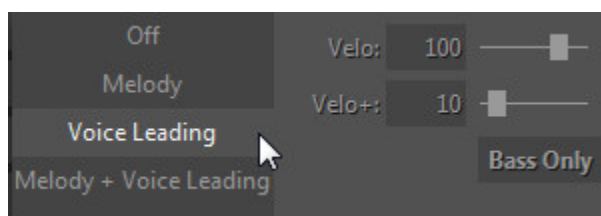


- Velo – input velocity threshold.
- Velo+ - add velocity value to melody notes if they are too soft.
- Octave - transpose Melody by octave.
- Hammer-On - On/Off Hammer-On effect when playing Melody.

Voice Leading

With this setup, you can change individual voices of the chord after it is played. Release any chord note while holding any other and then press another note with lower velocity. This will produce new note over the sustaining chord.

Voice Leading options:



- Velo - velocity threshold.
- Velo+ - add velocity value to new voice notes if they are too soft.
- Bass Only - will trigger the lowest notes possible.

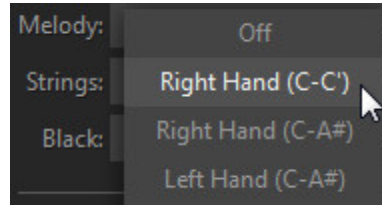
Melody + Voice Leading

This setup is a combination of Melody and Voice Leading setups.

STRINGS

Strings setup lets you assign String keys of various ranges to Left or Right Repeat zones.

Strings combo box includes four selections: Off, Right Hand (C-C'), Right Hand (C-A#), Left Hand (C-A#), and Left Hand (E-A):



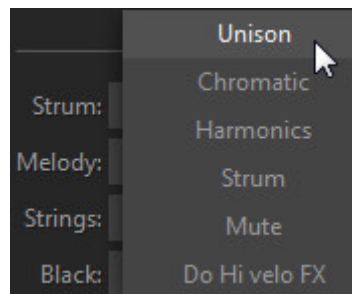
The selected key range will be greyed out on the virtual keyboard in the appropriate Repeat zone.

Key to string layouts:

- Right Hand (C-C') - C, D, E, F, G, A keys trigger Bass I, Bass II, 4th, 3rd, 2nd strings, while A, A#, B and C' trigger the 1st string.
- Right Hand (C-A#) - C, D, E, F, G, A keys trigger Bass I, Bass II, 4th, 3rd, 2nd, 1st strings, while B and C' trigger Up Strum and Down Strum.
- Left Hand (C-A#) - C, D, E, F, G, A keys trigger Bass I, Bass II, 4th, 3rd, 2nd, 1st strings.

BLACK

Black setup allows you to assign individual sounds and effects on black keys of the string group. **Black** combo box features six selections: Unison, Chromatic, Harmonics, Strum, Mute, and 'Do Hi velo FX':

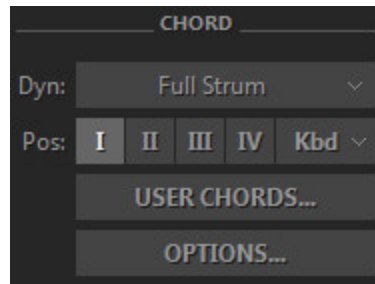


- Unison - doubles some strings for making single-string tremolo performance easy.
- Chromatic - sets the black string keys to play notes one semi-tone down from their respective string voices.
- Harmonics - black keys trigger Harmonics for current chord notes.
- Strum - C#, D#, and A# trigger Full Strum chords, while F# and G# trigger Muted Strums.
- Mute - all black keys trigger Muted Strums.

- Do Hi velo FX - black keys produce velocity free Hammer-On or Slider effect selected in Hi velo combo box of Velocity FX section.

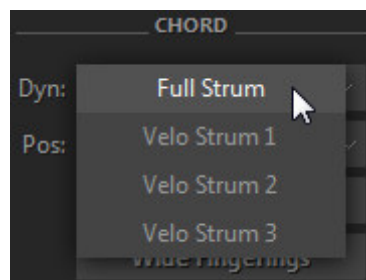
CHORD SECTION

Chord section allows you to assign various velocity controlled strumming techniques, change chord position/inversion, and gain access to User Chord Editor window and Options panel.



DYN

Clicking **Dyn** (Dynamics) combo box gives you four selections: Full Strum, Velo Strum 1, Velo Strum 2, and Velo Strum 3.



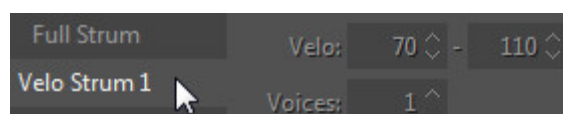
FULL STRUM

Full Strum setup works similar strumming layout for both Main and Repeat zones used in Chords performance mode of the previous RealRick versions.

VELO STRUM

Velo Strum 1, 2, and 3 FX allow triggering fewer strings in a strummed chord controlled by velocity of pressed keys (lower velocities will proportionally omit one by one the upper strings in a chord, up to the single Bass I note produced with lowest velocity value).

Velo Strum options:



- Velo - low and high velocity threshold numeric boxes.
- Voices - minimum number of voices (strings) in the chord played with lower velocity threshold value.

Repeat keys work differently with Velo Strum 1, 2 and 3:

- Velo Strum 1 - Repeat keys are not affected and work similar Repeat keys with Full Strum.
- Velo Strum 2 - Repeat keys follow velocity options and work similar Main zone keys.
- Velo Strum 3 - Repeat keys are not affected, but simply reproduce the number of strings of the last chord played in Main zone.

CHORD POSITION CONTROL



Chord position buttons - select the melodic position range for the built chords.

I - highest note is between E3 and G#3

II - highest note is between G3 and B3

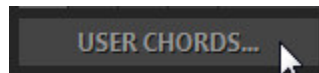
III - highest note is between A#3 and D4

IV - highest note is between C#4 and F4

Kbd - melodic position range of the built chord depends on the octave position of the chord taken in the Main zone of the keyboard (with borders between E and E of the next octave).

Chord Position/Inversion can be as well changed (up&down) via Key Switches during “live” performance.

USER CHORDS

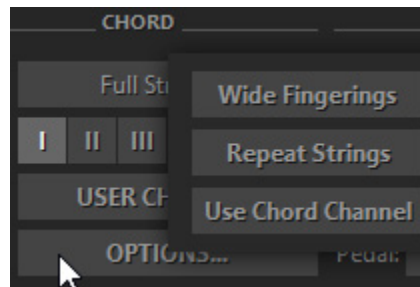


Click **User Chords** button to open Chord Editor window.

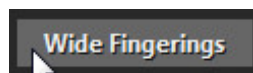
Refer to [User Chords](#) chapter for details.

OPTIONS

Click 'Options...' button to get access to additional options of CHORD section.

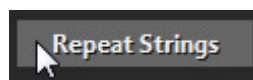


WIDE FINGERINGS



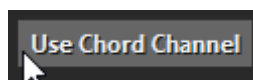
When Wide Fingerings button is activated, a number of chords with Bass I note on the 4th string (such as D major/minor/seventh, Eb major/minor/seventh, etc.) will be optimized to six voice fingerings for better use with String keys setup.

REPEAT STRINGS



With Repeat Strings activated repeating a chord note in Main zone will repeat only the voice(s) previously played with String key(s). With Repeat Strings Off the whole chord will be retriggered.

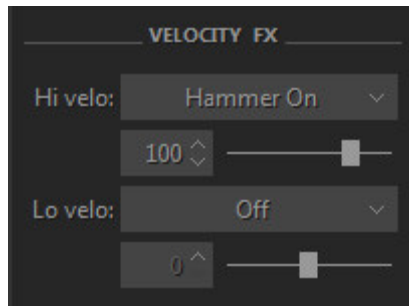
USE CHORD CHANNEL



With Use Chord Channel activated Melody will play via Chords audio channel.

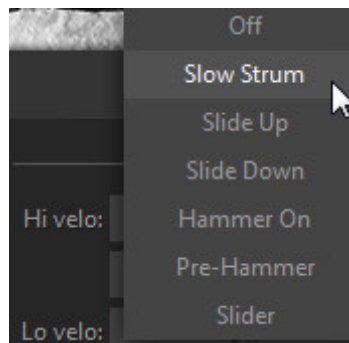
VELOCITY FX SECTION

Velocity FX section features two groups of effects triggered with higher velocity (Hi Velo) and/or lower velocity (Lo Velo) than the threshold value set in the appropriate numeric boxes.



HI VELO FX

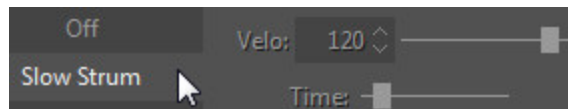
Hi Velo (high velocity) combo box features seven selections: Off, Slow Strum, Slide Up, Slide Down, Hammer-On, Pre-Hammer, and Slider.



SLOW STRUM FX

With Slow Strum setup, playing chord in Main zone with high velocity value will perform Slow Strum.

Slow Strum FX options:



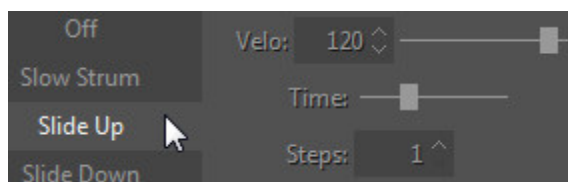
Velo - input velocity threshold.

Time - controls slow strum speed.

SLIDE UP FX

The effect performs automatic slide up TO the played chord.

Slide Up FX options:

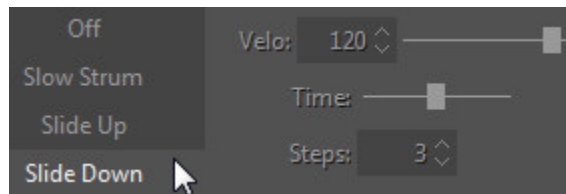


- Velo - input velocity threshold.
- Time - controls effect duration in milliseconds.
- Steps - effect range in semitones.

SLIDE DOWN FX

The effect performs automatic Slide down (Fall) FROM the played chord.

Slide Down FX options:

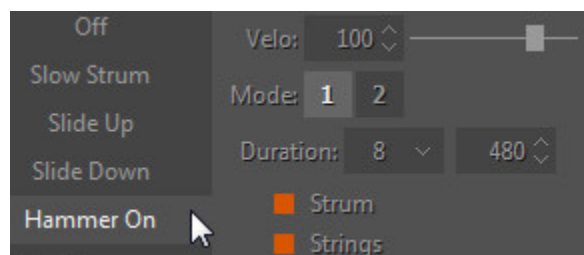


- Velo - input velocity threshold.
- Time - controls effect duration in milliseconds.
- Steps - effect range in semitones.

HAMMER-ON FX

This FX performs automatic Hammer-On on some strings inside the chord. Actually, the engine constructs so-called Pre-Hammer chord, which is Barre chord on the lowest fret of initial chord, and automatically plays Hammer-On to the fret(s) of initial chord.

Hammer-On options:



- Velo - input velocity threshold.
- Mode 1 - full chord is played with Hammer-on(s) inside the chord.
- Mode 2 - string(s) above the Hammer-ons are disabled in chords played in Main zone, but can be triggered with Repeat zone strums or String keys.
- Duration - controls Hammer-on speed in note duration units (4th, 8th, 16th, etc.) synced with host's Tempo setting.
- Strum LED - when activated will produce the FX with chords played in the Main zone.
- Strings LED - when activated will produce the FX with white String keys.

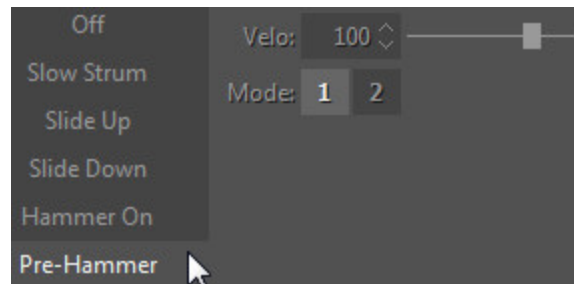
To produce velocity free Hammer-on with black String keys select 'Do Hi velo FX' setup in Black combo box of LAYOUT section.

PRE-HAMMER FX

This FX performs the Pre-Hammer chord, i.e. one finger Barre chord on the lowest fret of initial chord. To complete the Hammer-on effect you must repeat

the chord with Repeat zone key and/or String keys, which will move pre-hammered fret(s) to the initial chord.

Pre-Hammer FX options:

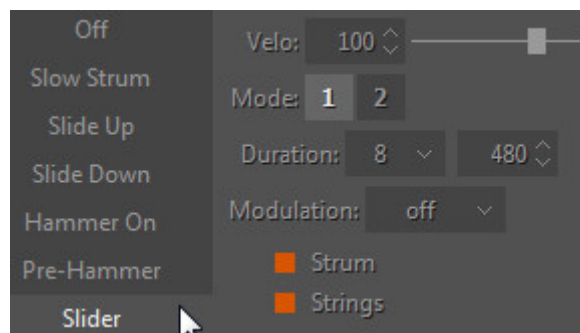


- Velo - input velocity threshold.
- Mode 1 - full chord is played with the pre-hammered frets inside the chord.
- Mode 2 - strings above the pre-hammered frets are disabled.

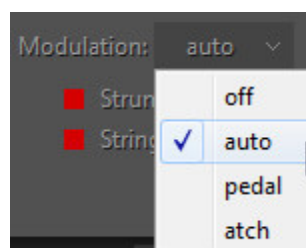
SLIDER FX

Slider FX emulates Slider (Bottleneck) guitar technique. The FX performs automatic bend from the pre-hammer chord frets (single fret Barre chord, constructed on the lowest fret of the initial chord) to the initial chord fingering.

Slider FX options:



- Velo - input velocity threshold.
- Mode 1 - full chord is played with bending notes inside.
- Mode 2 - strings above the bending notes are disabled.
- Duration - controls Slider FX speed in note duration units (4th, 8th, 16th, etc.) synced with host's Tempo.
- Modulation - enables automatic pitch modulation (vibrato) and has four selections: Off, Auto, Pedal, and Atch:



- Off - no modulation.
- Auto - automatically switches on the Modulation FX at the end of the note bend, and switches it off with the next note played.
- Pedal - switch auto Modulation on/off by pressing/releasing Sustain pedal.
- Atch - switch auto Modulation on/off by sending Channel Aftertouch MIDI CC data.

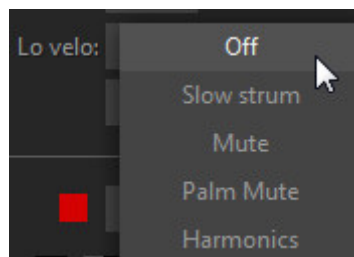
Modulation frequency and depth are controlled in Tune panel (Left menu bar on the upper left part of RealRick window).

- Strum, Strings LEDs - activate the LED to assign the FX to the needed performance technique(s).

To produce velocity free Slider FX with black String keys select 'Do Hi velo FX' setup in Black combo box of LAYOUT section.

LO VELO FX

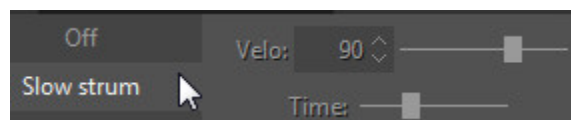
Lo Velo (low velocity) combo box features five selections: Off, Slow Strum, Mute, Bridge Mute, and Harmonics:



SLOW STRUM FX

With Slow Strum setup, playing chord in Main zone with low velocity value will perform Slow Strum chord.

Slow Strum options:

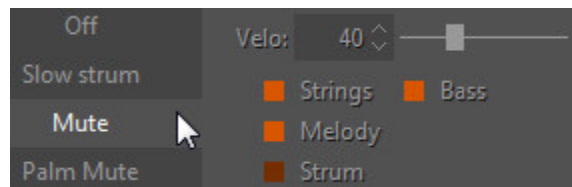


- Velo - input velocity threshold.
- Time - controls slow strum speed.

MUTE FX

Mute FX lets you produce Mute sound on lower velocity with different performance techniques.

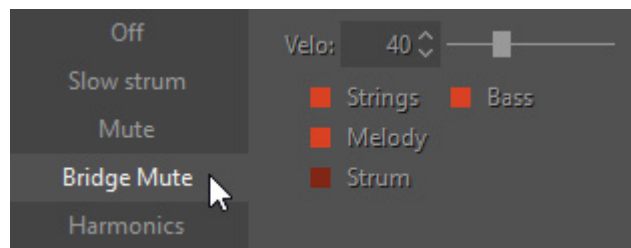
Mute FX options:



- Velo - input velocity threshold.
- Strings, Bass, Melody, and Strum LEDs - activate the LED to assign the FX to the needed performance technique(s).

BRIDGE MUTE FX

Bridge Mute FX lets you produce Bridge (Palm) Mute sound on lower velocity with different performance techniques.



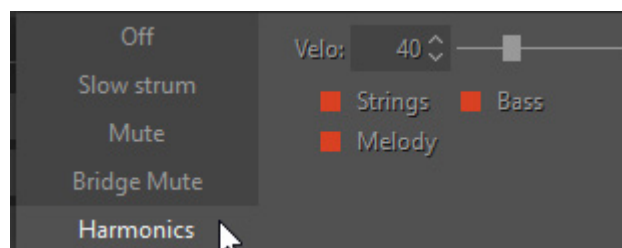
Bridge Mute FX options:

- Velo - input velocity threshold.
- Strings, Bass, Melody, and Strum LEDs - activate the LED to assign the FX to the needed performance technique(s).

HARMONICS FX

Harmonics FX lets you produce Harmonics sound on lower velocity with different performance techniques.

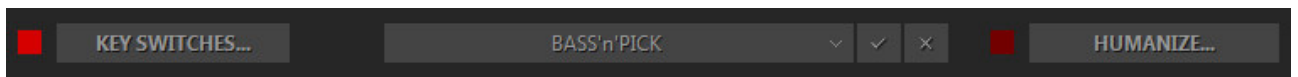
Harmonics FX options:



- Velo - input velocity threshold.
- Strings, Bass, and Melody LEDs - activate the LED to assign the FX to the needed performance technique(s).

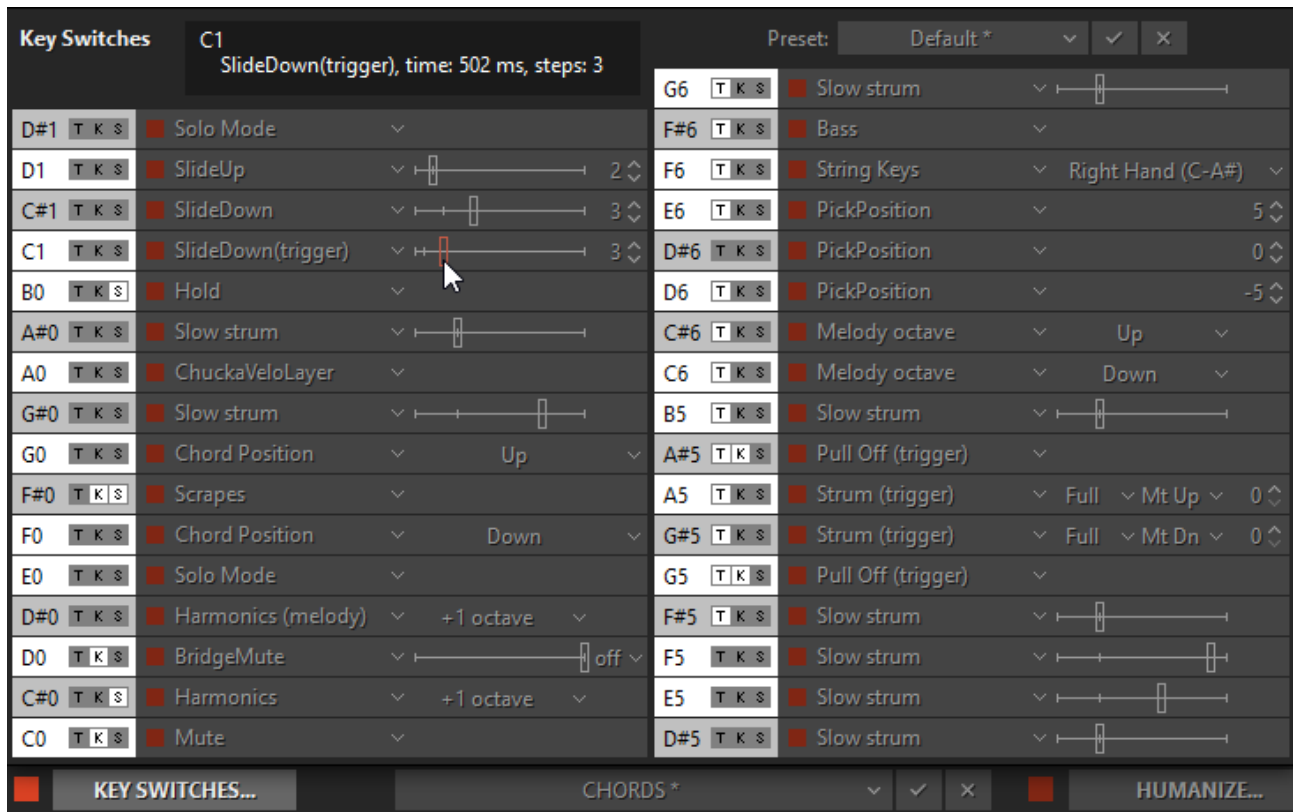
KEY SWITCH FX

In the lower part of MULTI mode window you can find additional controls and options: Key Switches, Preset, and Humanize.



RealRick's numerous guitar Effects can now be triggered in chordal modes within the MULTI mode using our advanced Key Switch system. Key Switch option allows to assign various FX on Repeat Zone keys as well as easily create and use custom presets in RealRick Key Switch panel.

Click 'Key Switches...' button to open the Key Switch panel:



Key Switch panel gives you access to 33 keys FX boxes of Left and Right Repeat zones, including 25 assignable FX in each box.

Click FX box and select the needed FX in the popup list:

- **Slow Strum** - slow strum is performed when playing a chord in the Main zone.
- **Slide Up** - automatic slide up TO the played chord is produced.
- **Slide Down** - automatic slide down (Fall) FROM the played chord is produced.
- **Slide Down (trigger)** - triggers automatic Slide Down FROM the played chord /Velocity of trigger key affects slide dynamics/.
- **Hold** - provides sustain effect similar to the Sustain Pedal.
- **Chucka Full** - provides muted chords in 4ths on the keys of the Main zone.
- **ChuckaMuteKeys** - provides muted chords in 4ths on Black Repeat (Mute) keys.

- **ChuckaVeloLayer** - provides velocity controlled muted chords in 4ths on the keys in the Main zone.
- **Pull Off (trigger)** - producing **Pull-Offs** on some strings inside the previously strummed chord on lower velocity, while producing full **Pre-Hammer** chord on higher velocity.
- **Chord Position** - changes chord position up or down.
- **Melody (Octave)** - Melody transpose.
- **String Keys** - switches on/off the String keys in Repeat zone.
- **Bass** - switches on/off Bass function in Main Zone
- **Melody** - switches on/off velocity free Melody function in Main zone range.
- **Chords** - when activated turns Main zone to velocity free Melody function, and switches between Chords and Melody.
- **Harmonics (Melody)** - switches on/off the Harmonics sound with Melody function in Main zone range.
- **Mute** - switches on/off the Mute sound.
- **Bridge Mute** - switches on/off the Bridge Mute sound.
- **Harmonics** - switches on/off the Harmonics sound.
- **Scrapes** - switches Main zone keys to Scrapes mode.
- **Solo mode** - switches to Solo Global mode.

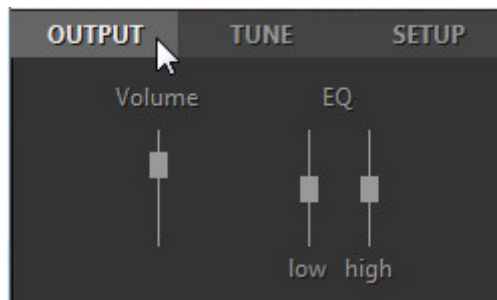
MAIN CONTROLS

LEFT MENU BAR



In the Left Menu bar you can get access to 4 panels to make global settings: Output panel, Tune panel, Setup panel, and Velo panel.

OUTPUT PANEL

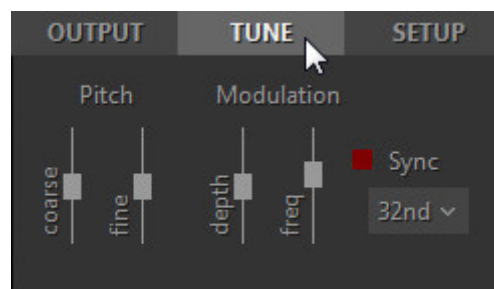


Volume (+10/-30db) - adjust output volume.

EQ - adjust internal equalizer parameters:

- High (+/- 10db).
- Low (+/- 10db).

TUNE PANEL



Pitch - adjust the master pitch:

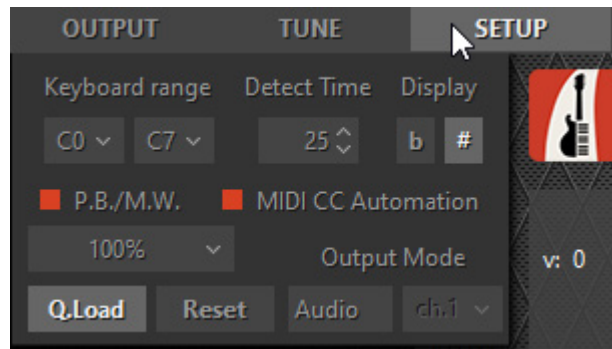
- Coarse (+/-12 semitones).
- Fine (+/-100 cents).

Modulation - adjust the modulation envelope affected by Modulation controller (MIDI CC#1):

- Depth (0-100%).
- Freq (0.2 - 8.0 Hz).
- Sync LED button (on/off) - when activated the modulation rate will be synced with host's tempo.

- Duration combo box - select note duration value in pull-down menu to match modulation rate you need.

SETUP PANEL



Keyboard range (C0- C7) - set the range of your keyboard.

Chord Detect time (0-50ms) - set the suitable delay for detecting chords taken in chord modes.

Display chords (#/b) - select sharps or flats for the chord names.

P.B. and M.W. on pressed keys - when activated allows to polyphonically use Pitch Bend, Modulation Wheel, and Aftertouch controllers with Sustain Pedal, i.e. the controllers will affect only on actually pressed note(s), while other note(s) being sustained with a Pedal but physically released will stay untouched. When turned off all controllers work normally.

MIDI CC Automation – switch on/off MIDI CC Automation input.

UI Scaling (80%-200%) – resize RealRick UI in popup menu.

Q.Load - pressing Quick Load button allows to quickly load samples and drastically save RAM.

Reset - resets all modified parameters in all modes to their factory values.

Output mode – select between Audio, MIDI, Both options.

Using MIDI Out functionality, the actual MIDI output, including arpeggios, patterns, and strums generated by notes you play in the "Repeat Zones", can be played back through any other synth or sampler. Most (but not all) DAWs that support MIDI input from a virtual synth support recording its MIDI output as well.

Here are a few reasons you might want to take advantage of MIDI Output functionality:

1. To double the RealRick sound with another synth/sampler
2. To replace your guitar part with another sound altogether
3. To generate a MIDI file that's readable by your notation program

The "Audio/MIDI/Both" options are important, and as follows:

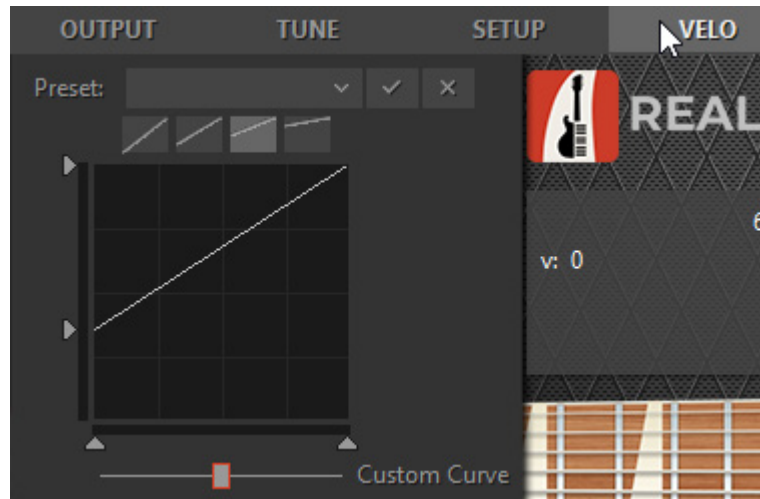
- **Audio:** You'll hear the RealRick samples only, just as you would if you weren't sending MIDI Out to your synth.

- **MIDI:** You'll hear only the synth being driven by the MIDI output from RealRick. The RealRick samples will not sound.
- **Both:** You'll hear both the RealRick samples and the synth being driven by the MIDI output from RealRick.

Select "MIDI" or "Both" to take advantage of MIDI Out functionality.

VELO PANEL

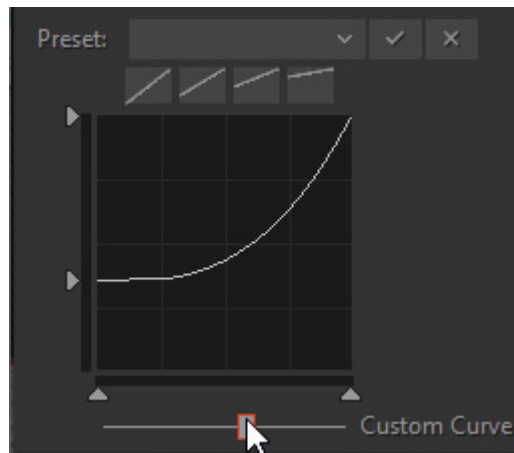
Click Velo button in Left menu bar to open the Velocity panel.



Velocity panel provides Preset, Velocity curve buttons, Velocity curve graph, Velocity thresholds control.



Select the output velocity curve for your performance by pressing one of 4 buttons.



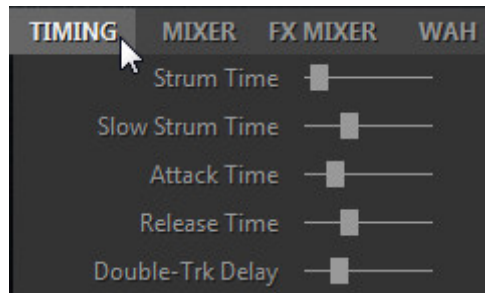
Create custom velocity curves with Dynamics slider and save them in Velocity combo box as presets for future use.

RIGHT MENU BAR



In the Right Menu bar you can get access to Timing panel, 2 Mixer panels, and Wah-Wah Effect settings.

TIMING PANEL



Strum time (5-200ms) - adjusts the time between the notes played in the strumming chords (Harmony, Chords, and Bass & Chord modes) as well as delay for more than one note played simultaneously in Solo and Bass & Pick modes.

Slow Strum time (45-300ms) - adjusts the strum time for Slow Strum strokes.

Attack time (0-100%) - allows shortening/lengthening the attack of a sound. The shortest (0%) gives smaller latency, but sounds less natural.

Release time (50-200%) - adjusts how long the note sounds after releasing the key (MIDI note end).

Double-Trk Delay (0-400%) - controls proportional delay between tracks in Double-track patch for wider panning.

MIXER 1 PANEL



Mixer 1 panel allows adjusting the volume of various noise effects:

Noises:

- Fret - volume and on/off of a fret noise.
- Release - volume and on/off of a release noise.
- Pick - volume and on/off of additional pick noise.
- Scrapes – volume of Scrapes sound.

- Feedback – volume of Feedback sound

MIXER 2 PANEL

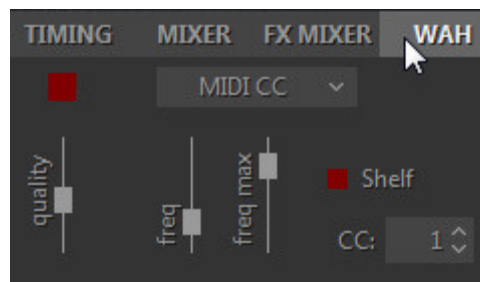


Mixer 2 panel lets you adjust volume of additional sounds that form the modeled guitar sound.

Sounds:

- Slow Strum - volume of Slow Strum sound (Velocity switch FX in chordal modes).
- Solo/Strings - volume of sustain sound produced in Solo mode and with String keys.
- Mute, Bridge Mute, Harmonics, Pinch Harmonics- volume of all FX sounds individually.

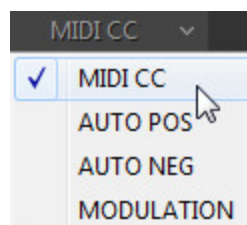
WAH-WAH PANEL



Wah-Wah panel allows switching on Wah-Wah Effect, as well as selecting any of 4 Wah-Wah modes available in RealRick and adjust parameters for each mode.

Press FX Enable LED in the upper left corner to switch on the Wah-Wah Effect.

Select Wah-Wah mode in a combo box:



MIDI CC - Wah frequency center is controlled by MIDI CC (set the needed CC# in numeric box), adjust Filter quality (Qual), lowest frequency (Freq), highest frequency (Freq (max)).

Auto Positive - Automatic Wah effect with positive filter envelope, adjust effect Depth, Frequency and filter Quality.

Auto Negative - Automatic Wah effect with negative filter envelope, adjust effect Depth, Frequency and filter Quality.

Modulation - you can adjust filter Quality (db), lower Frequency (Hz), modulation Depth (%), modulation Phase (°), modulation Rate (Hz, as well as sync the rate to host's tempo and select note duration in pull-down menu), select Trigger mode with on/off clickable LED.

COMMON CONTROLS

Hold (on/off) - allows to sustain the sound by holding Repeat zone keys in all modes, except for the Solo.

In Solo mode when Hold button is on, any pressed and held key in the Main zone can be used for sustaining the following notes.

Auto (on/off) - toggles between Auto and Manual mode of Floating Fret Position. Auto works only in melodic modes (Solo, Harmony). Manual mode allows changing the fret position by right-clicking on the Fretboard.

Accent High (0-127) - adjusts the velocity threshold between hard and hardest performance dynamics.

Accent Low (0-127) - adjusts the velocity threshold between soft and hard performance dynamics.

Alter samples (1-5) - provides 5 positions of randomly alternating samples while performing repetitive notes (position 1 provides up to 3 different samples, while position 5 provides up to 10 different samples).

REALRICK EFFECT TABLE AND DESCRIPTION

Mute	Effect, Key/Pedal/Mod.Wheel/Velocity Switch
Bridge Mute	Effect, Key/Pedal/Mod.Wheel/Velocity Switch
Harmonics	Effect, Key/Pedal/Mod.Wheel/Velocity Switch
Pinch Harmonics	Effect, Key/Pedal/Mod.Wheel/Velocity Switch
Scrapes	Effect, Key/Pedal/Mod.Wheel/Velocity Switch
Legato (1-2 Steps)	Effect, Key/Pedal/Mod.Wheel Switch
HammerOn (Legato)	Effect, Key/Pedal/Mod.Wheel/Velocity Switch
Slide (Legato)	Effect, Key/Pedal/Velocity Switch
Repetition (NoteOff)	Key/Pedal/Velocity Switch
Tremolo	Effect, Key/Pedal/Velocity Switch
Tremolo 1-beat	Effect, Key/Pedal/Velocity Switch
Trill	Effect, Key/Pedal/Velocity Switch
Trill 1-shot	Effect, Key/Pedal/Velocity Switch
Slide Up	Key/Pedal/Mod.Wheel/Velocity Switch*, P.Bender
SlideUp (trigger)	Key Switch
Slide Down (Fall)	Key/Pedal/Mod.Wheel/Velocity Switch*, P.Bender
SlideDown (trigger)	Key Switch
Bend	Key/Pedal/Velocity Switch
Reverse Bend	Key/Pedal/Velocity Switch
Unison Bend	Key/Pedal/Mod.Wheel/Velocity Switch
Hold (1-2 Steps Mono)	Effect, Key Switch
Interval	Effect, Key/Pedal/ Mod.Wheel/Velocity Switch
Fret Position	Mouse*, Key/Pedal Switch
PickPosition	Mouse*, Key/Pedal Switch
String select	Key Switch
Wah-Wah	Effect*, Key/Pedal*/Mod.Wheel Switch
Violining	Effect, Key/Pedal/Mod.Wheel Switch
Sustainer (trigger)	Key/Pedal Switch, P.Bender
FeedBacker (trigger)	Key/Pedal/Mod.Wheel Switch, P.Bender, AfterTouch
Chucka FullRange	Effect, Key/Pedal* Switch
Chucka MuteKeys	Effect, Key/Pedal* Switch
Chucka VeloLayers	Effect, Key/Pedal/Mod.Wheel/Velocity Switch
Mode Toggle	Key/Pedal/Mod.Wheel Switch
velo>	Key/Pedal/Velocity Switch
velo<	Key/Pedal/Velocity Switch
Transpose	Effect, Key/Pedal/Mod.Wheel/Velocity Switch
Fret Noise (trigger)	Key/Pedal/Mod.Wheel/Velocity Switch
MonoBend (lower note bend)	P.Bender, Mod.Wheel
VeloAdd (velo +/- control)	P.Bender
Open Strings Lock**	Pedal Switch

Slow Strum**	Velocity Switch
Multi mode	Key Switch
Melody octave***	Key Switch
Melody***	Key/Velocity Switch
Bass***	Key Switch
String keys***	Key Switch
Chords***	Key Switch
Hammer-on in chords***	Velocity Switch
Pre-Hammer in chords***	Velocity Switch
Pull-Off (trigger) chords***	Key Switch
Harmonics (Melody)***	Key Switch
Harmonics chords***	Key/Velocity Switch
Mute chords***	Key/Velocity Switch
Bridge Mute chords***	Key/Velocity Switch
Slider in chords***	Key/Velocity Switch
Strum***	Key Switch
Floating Strings***	Key Switch

All FXs are available in Solo mode except for the marked:

* - available in Chords, Bass&Chord, Bass&Pick modes as well.

** - available only in Chords, Bass&Chord, Bass&Pick modes.

*** - available only in Multi mode.

Tapping FX reduces initial sound attack and allows to produce legato Hammer-Ons/Pull-Offs both lower and higher the held note within 24 semitone range. Works in monophonic mode with initial note and Hammer-Ons/Pull-Offs played on the same string.

Mute FX - left-hand muted sound for notes in the Main zone. Note that the volume of the Mute FX is controlled by Mixer > Sounds > Mute slider.

BridgeMute FX - sound muted near the guitar bridge for notes in the Main zone. It is a similar effect to Mute FX, however produces a slightly different sound. The tightness of Bridge Mute sound is controlled manually with the slider, or by velocity value of playing notes in case 1-3 position is selected in the numeric box. With 'off' selection velocity of playing notes will not change the length of Bridge Mute sound. Note that the volume of the BridgeMute FX is controlled by FxMixer > Bridge Mute slider.

Harmonics FX - chromatic Artificial Harmonic sound for notes in the Main zone. Note that the volume of the Harmonics FX is controlled by FxMixer > Hrmnx slider.

PinchHarmonics FX - non-chromatic Pinch Harmonic sound for notes in the Main zone. Note that the volume of the PinchHarmonics FX is controlled by FxMixer > Pinch Hrmnx slider.

Scrapes FX - 46 different string scrapes, each controlled by the different notes in the Main zone ranging from E1 to C#5. Note that the volume of the Scrapes FX is controlled by FxMixer > Scrapes slider.

HammerOn (Legato) FX produces Hammer-On/Pull-Off articulation. Hammer-On and Pull-Off guitar effects enable the playing of grace notes, mordents, trills with a single pick (and single initial attack). With Hammer-On enabled, press and hold a single key. When a second key is played, it plays without the initial attack and stops the first note. While continuing to hold the first key, release the second key and the first note is played again without the initial attack. When the second key is played higher than the second key, this is typically called a hammer-on. If the second key is lower than the first key, this is typically called a pull-off. The Hammer-On effect has a numeric box allowing the user to select in semi-tones the greatest distance between the first and second note played to be triggered with the Hammer-On/Pull-Off effect.

Slide (Legato) FX produces sliding articulation between two notes played legato (glissando with initial attack on the first note only). The Slide FX numeric box controls the maximum number of semi-tones between two notes that the slide FX will occur. The Slide FX slider controls the speed of the slide.

Repetition (NoteOff) FX automatically plays additional same note(s) on key(s) release allowing to produce semi-automatic tremolo with easy dynamics control.

Tremolo FX plays the note(s) repeatedly with the base speed provided by the Tempo setting (is synched with host's tempo). Multiples above the Tempo setting are controlled by the Tremolo FX pull-down menu with choices of 4th, 4T (triplet), 8th, 8T, 16th, 16T, 32nd, 32T, 64th, and 64T note durations. Note that while Tremolo FX is enabled any secondary notes played are sustained for as long as the first note is played.

Tremolo 1-beat FX works similar **Tremolo FX** but plays number of notes fitting in one beat of a measure before sustaining. The speed is controlled by the Tempo setting (is synched with host's tempo).

Trill FX plays a continuous trill for as long as the note(s) is held. The Trill FX numeric box specifies (in semi-tones above the note(s) played) the interval of the trill. The speed of the trill is controlled by the Tempo setting and the Trill FX pull-down menu with choices of 4th, 4T (triplet), 8th, 8T, 16th, 16T, 32nd, 32T, 64th, and 64T note durations.

Trill 1-shot FX plays a mordent ahead of the note(s) played. The Trill 1-shot FX numeric box specifies (in semi-tones above the note(s) played) the interval of the mordent. The speed of the mordent is controlled by the Tempo setting and the Trill 1-shot FX pull-down menu with choices of 4th, 4T (triplet), 8th, 8T, 16th, 16T, 32nd, 32T, 64th, and 64T note durations.

SlideUp FX articulates automatic slide up TO the note(s) played. The SlideUp FX numeric box specifies (in semi-tones) the interval to start the slide from. The SlideUp FX slider controls the speed of the slide.

SlideUp (trigger) FX triggers automatic slide up FROM the sustaining note(s). Velocity of trigger key affects slide dynamics.

SlideDown FX articulates automatic slide down FROM the note(s) played. The SlideDown FX numeric box specifies (in semi-tones) the destination interval for the slide. The SlideDown FX slider controls the speed of the slide.

SlideDown (trigger) FX triggers automatic slide down FROM the sustaining note(s). Velocity of trigger key affects slide dynamics.

Bend FX articulates automatic bend up TO the note(s) played. The Bend FX numeric box specifies (in either 1 or 2 semi-tones) the interval to start the bend from. The Bend FX slider controls the speed of the bend.

ReverseBend FX articulates automatic 'pre-bend and release' down to the note(s) played. The ReverseBend FX numeric box specifies (in either 1 or 2 semi-tones) the interval to start reverse bend from. The ReverseBend FX slider controls the speed of the bend.

UnisonBend FX articulates two notes played, one being the played on the Main zone, and the second one starting from one or two semi-tones below is bent up to the note played. The UnisonBend FX numeric box controls if the second bent note starts from one or two semi-tones below. The UnisonBend FX slider controls the speed of the bend.

Hold FX provides sustain effect similar to the Sustain Pedal.

Interval FX plays additional note(s) to the one played in the Main zone. Interval FX pull-down menu options are: mono, 4th down, 5th up, Octave up, Power (5th + 4th up), Power2 (5th + 4th up), 2 Octaves up, Power Oct (two power chords in octave) and Power 2 Oct (two power chords 2 in octave). Note that when Interval FX is enabled, the keyboard is in monophonic mode and only a single key can be played at a time.

FretPosition FX controls the Capo along the fretboard. The FretPosition FX pull-down menu option of "D#5 ... C6" allows the Capo to be controlled by the 10 Right Repeat keys starting from D#5, up to C6 selecting the 18th fret. The FretPosition FX pull-down menu option of "Open" forces the Capo to remain open. The remaining pull-down menu options select one of the 18 frets (frets numbers marked with *, or ** correspond to the frets marked on the RealRick fretboard).

PickPosition FX controls the position of the pick on the strings to provide different sound (farther or closer to the bridge). The PickPosition numeric box ranges from -7 to +7. The Pick Position can also be changed via the main RealRick window by clicking and dragging the pick to the left or right on the high E-string.

String Select FX allows to manually select the needed string, which lets you play as many notes on the selected string as possible for the string range.

Wah-Wah FX provides a traditional guitar wah-wah pedal effect. The Wah-Wah FX pull-down menu options for control are: MIDI-Control, Auto Positive, Auto Negative and Modulation. Wah-Wah FX parameters can be modified in the

Wah-Wah panel accessible from Right Menu bar in the upper right corner of the RealRick window.

Violining FX provides a volume swell with a smooth attack. The Violining FX slider controls the swell time.

Sustainer (trigger) FX triggers a 'sustainer' effect for any notes currently being played in the Main zone. The sound swells with every key press and can sustain as long as you trigger the effect.

FeedBacker (trigger) FX triggers a harmonic feedback for the note(s) being played in the Main zone (for the last in time pressed note in case of a chord). The FeedBacker FX pull-down menu provides the following harmonic selections: 8 (octave), 5' (octave and a fifth), 8' (two octaves), 5'' (2 two octaves and a fifth), 8'' (three octaves), and 5''' (three octaves and a fifth).

ChuckaFull FX provides muted chords in 4ths (so called, chucks) played in the Main zone which emulates 'chucka-chucka' guitar technique. Main zone is in mono mode with each key triggering individual chord/fret. With notes played from E3 and higher, ChuckaFull FX chords will move higher with each increased semi-tone along the fretboard. Right Repeat zone keys repeat the chords played in Main zone and can alternate between two string groups: D#5 through F#5 trigger lower strings (5-4-3 strings), and G5 and higher trigger upper strings (3-2-1 strings). Left Repeat keys (D#1 and lower) repeat the last layer produced in Right Repeat zone.

ChuckaMuteKeys FX provides muted chords in 4ths with Black Repeat (Mute) keys (Main zone and white keys of Repeat zone continue to work normally). Right Repeat zone Mute keys can alternate between two string groups: D#5 through F#5 trigger lower strings (5-4-3 strings), A#5 and higher trigger upper strings (3-2-1 strings), and Left Mute keys (D#1, C#1, etc..) repeat the last layer produced in Right Repeat zone.

ChuckaVeloLayers FX provides muted chords in 4ths played in the Main zone similar to ChuckaFull FX, however can produce 3 velocity controlled string groups by any key of the whole range. Low velocity strokes trigger 5-4-3 string layer, middle velocity strokes trigger 4-3-2 strings layer, while high velocity strokes trigger 3-2-1 string layer (the higher velocity value - the higher string group is triggered).

Mode Toggle FX toggles from Solo mode to Chords, Bass&Chord, or Bass&Pick mode and back to Solo.

Velo > FX activates higher Velocity Switch FX selected in Higher Velocity Switch box.

Velo < FX activates lower Velocity Switch FX selected in Lower Velocity Switch box.

Transpose FX - transposes all notes by the selected interval (+/- 3 octaves)

Fret Noise (trigger) FX triggers Fret Noise sound. Enabling the FX will switch off the

automatic Fret Noise generating on note-offs.

Multi mode FX- switches from Solo to Multi mode.

Melody (octave) FX – transposes Melody notes.

Melody FX – switches from chord to Melody setup.

Bass FX - switches from chord to Bass setup.

String Keys FX – switches on String Keys.

Chords FX - switches on Chords setup (when activated Main zone keys are in Melody mode).

Hammer-On FX - produces automatic Hammer-On in chords.

Pre-Hammer FX – produces pre-hammered chord.

Pull-Off (trigger) FX - produces pull-off in chord.

Harmonics (Melody) FX – switches from chords to Melody with Harmonics sound.

Harmonics FX – switches on Harmonics sound for chords.

Mute chords - switches on Muted sound for chords.

Bridge Mute chords - switches on Bridge Muted sound for chords.

Slider FX - produces automatic pitch bends from pre-hammer notes to initial chord notes in chords.

Strum - allows to assign Up/Down strum, or Up/Down Muted strum on any key of Repeat zone. Example: if you use String keys you can assign any desired Strum and Muted Strum combination on Black keys of Strings zone and play strums without moving your hand to Strum keys section.

Floating Strings FX - switches on String keys (white keys) in Main zone starting from Root or Lowest note of the played chord. That allows you to pick String keys without moving hand to Repeat zone section. In case of #/b Root or Lowest note of the chord (Bb, F#, etc..), String keys will start on the lower neighbor white key.

MIDI CONTROLLER ADDITIONAL FXS

MonoBend FX (Pitch Bender and Modulation Wheel) applies pitch bending: a) only to the lowest of simultaneously played notes, b) only to the first bent and held note, allowing to emulate guitar specific single-string bending techniques: Unison Bend, Bend/Release combined with sustained note(s), etc...

Example 1 - assign MonoBend to P.Bender, press and hold 2-3 notes in Main zone, then move P.Bender - only the lower note will be bent (if you then move P.Bender back while holding all played notes only the first note will be affected).

Example 2 - assign MonoBend to P.Bender, play a note, move P.Bender to bend the note, then holding the first note bent play the second note higher or lower the first one - next note(s) will play their real pitch (if you then move P.Bender back while holding all played notes, only the first previously bent note will be affected).

VeloAdd FX (Pitch Bender) allows continuous adding/reducing velocity value (+/-) to the played notes.

Slide FX (Pitch Bender and Modulation Wheel) allows manual articulation of Up/Down slides from/to played note(s).

ADDITIONAL FXS FOUND IN CHORDS, BASS & CHORDS, BASS & PICK MODES

Slow Strum on Higher Velo (Velocity Switch FX) - in all chordal modes you can set a velocity value, after which slow strum will be performed when playing a chord in the Main zone.

Slow Strum on Lower Velo (Velocity Switch FX) - in the same way you can set a velocity value below which slow strum will be performed when playing a chord in the Main zone.

Slide up (Velocity Switch FX) produces automatic slide up TO the played note/chord.

Slide down (Velocity Switch FX) produces automatic slide down (Fall) FROM the played chord.

Open Strings Lock (Pedal Switch FX) - in case open strings are used in a chord (such as A Open, E Open) they will be engaged (locked) while other strings will play the notes of the further chords. When **Open Strings Lock FX** is turned on the further chords played with upper note higher than E3 will automatically move chord position up along the fretboard.

Note, that if Modulation FX box is activated, the effect selected in M.W. (Modulation Wheel) box will not work.

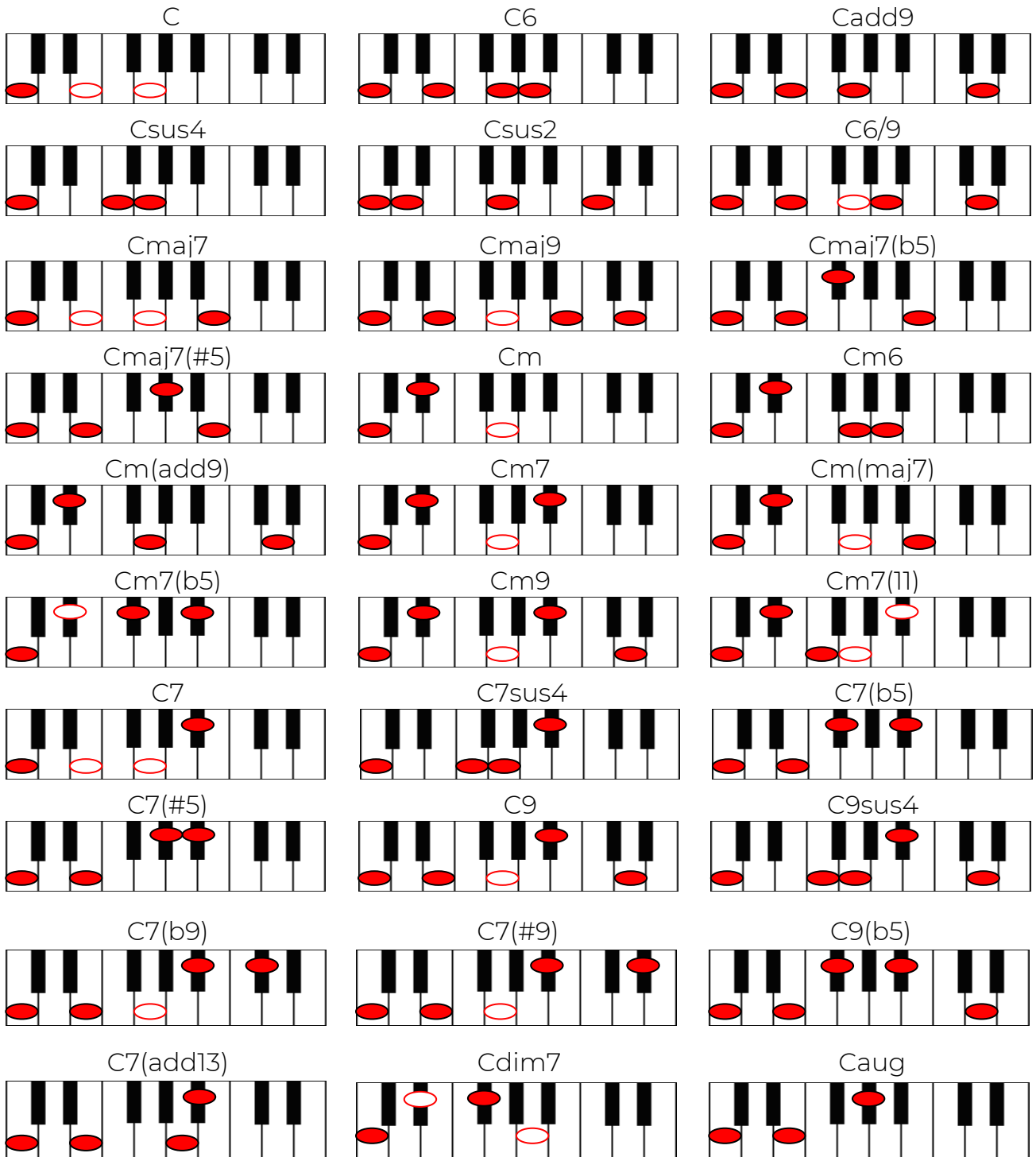
CHORD MAP

RealRick can detect 30 chord types.

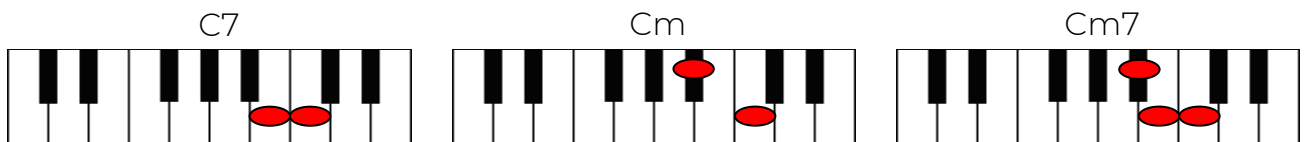
The following chart lists the available chord types and the degrees unnecessary for chord detection that you can omit while entering chords.

Chord type	Can be omitted
ma	V, III
6	-
add9	-
sus4	-
sus2	-
6/9	V
maj7	V, V+III
maj9	V
maj7(b5)	-
maj7(#5)	-
m	V
m6	-
m(add9)	-
m7	V
m(maj7)	V
m7(b5)	III,
m9	V
m7(11)	VII, V
7	V, III+V
7sus4	-
7(b5)	-
7(#5)	-
9	V
9sus4	V
7(b9)	V
7(#9)	V
9(b5)	-
7(add13)	V
dim7	III, VII, III+VII
aug	-

All chords except ma6, min6, min7(11), ma6/9 are detected in all inversions and note combinations.



1-note chord detect system also included:

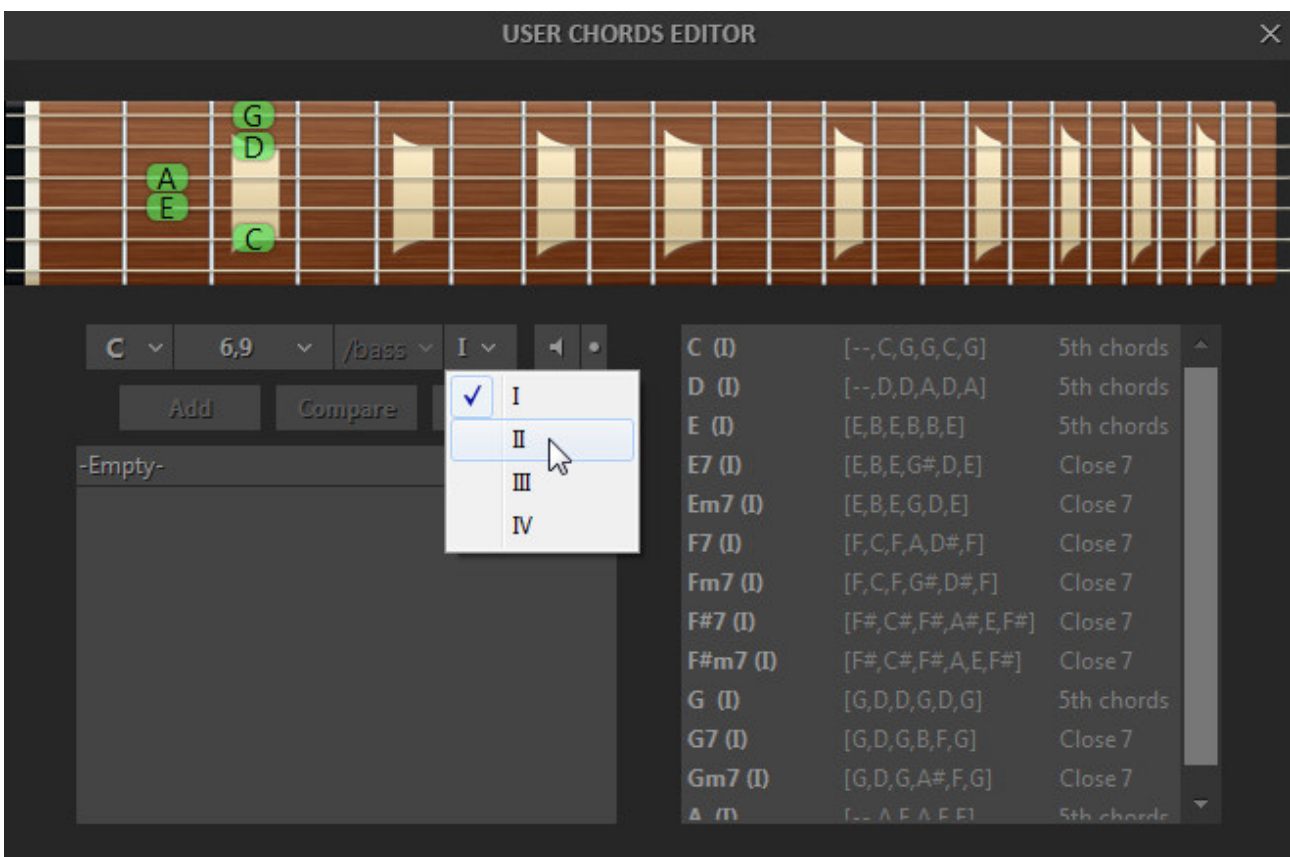
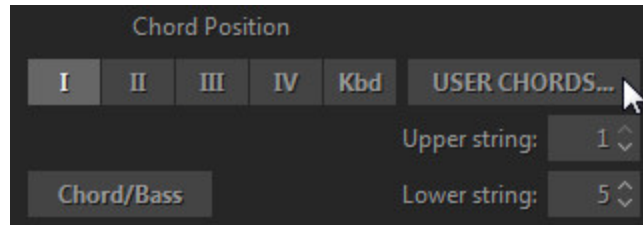


- - obligatory
- - can be omitted

USER CHORDS

Chord Editor implemented in version 3 allows to easily change any factory chord to any fingering you want, and save edited chords within User Chord banks for future use.

Being in any chordal mode click User Chords button to open Chord Editor window:



Chord Editor window

CHORD EDITOR

Select chord you want to edit by pressing keys on external MIDI keyboard, or by selecting Root/Type/Bass/Position in chord select boxes

EDITING CHORDS

- Click on fret to change/insert a note

- Click Compare button to compare edited and initial chord
- Click Add/Apply button to add edited chord to current bank
- Click Delete button to remove the selected chord from current Bank.

Note, that any User Chord lowest note will be used as Bass I Stroke for Pattern, Bass&Pick, and Bass&Chord layouts, regardless of Root note in the chord name.

AUDITIONING CHORDS

a) Press button with speaker icon

Small button at the right with a dot symbol activates Auto audition mode (any loaded or selected chord will be played automatically)

b) Right-click fretboard and strum strings with a mouse.

SAVING USER CHORD BANK

Press Save button, or rename bank and press Enter to save chord bank to Chord Library.

Delete Bank from Library by pressing 'Delete icon'.

All user chord names will be displayed with '*' symbol in the Info bar.

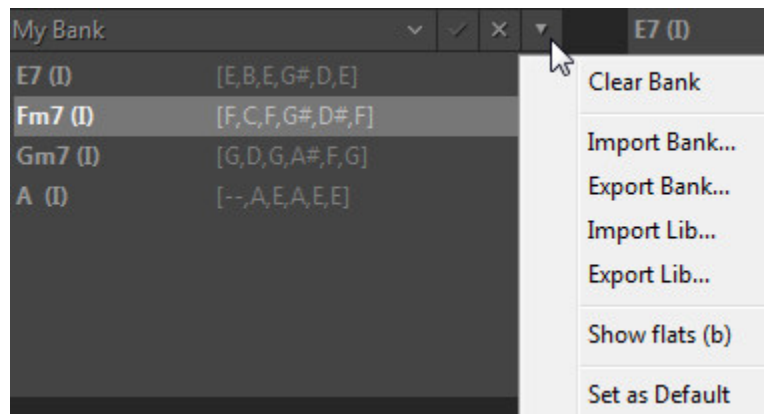
USER CHORDS VIEW

In the right part of Editor window you see the list of all user chords of all Banks you've created (except for current Bank selected in Bank view at the left), which allows you to compare edited chord fingerings from different Banks, as well as copy any user chord from one Bank to another by simply selecting chord in User Chord view list and pressing Add button.

Note, the Bank you select in User Chord Bank combo box will be used for all modes working with chords.

EXPORTING/IMPORTING USER CHORD BANKS

You can export/import single Chord Banks as well as the whole User Chord Library by clicking button with triangle icon and selecting the appropriate item in pop up menu:



If you want any Bank to load as default every time you run the plug-in, load the bank and check 'Set as default' item in popup menu.

PATTERN GLOBAL MODE

USING MUSICLAB RHYTHM PATTERN LIBRARY AND PATTERN MANAGER

MusicLab Rhythm Pattern Library is a unique collection of 1250 guitar accompaniment rhythm patterns classified by various musical categories, such as meter, music style, guitar technique, rhythmic feel, tempo range.

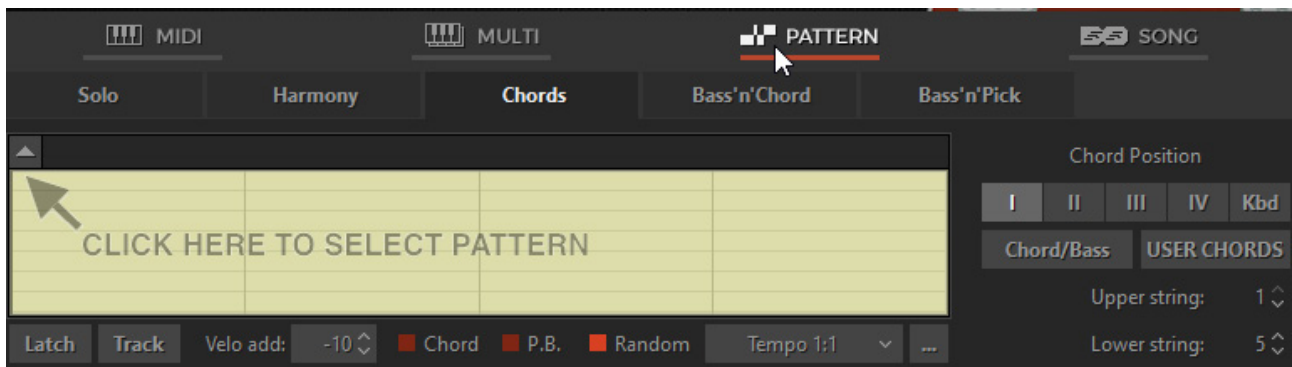
Using the prerecorded rhythm patterns of MusicLab Pattern Library you can quickly create professionally sounding guitar accompaniment tracks for your songs. Then all you have to do is to choose the appropriate pattern(s) in RealRick Pattern Manager, copy them to your host sequencer's MIDI track, start sequencer and play chord changes on a MIDI keyboard, or alternatively enter chords to a MIDI track using sequencer's editor.

PATTERN MANAGER

RealRick is equipped with powerful multi-functional built-in Pattern Manager allowing to easily audition rhythm patterns of MusicLab Pattern Library, quickly find the ones matching your musical needs, as well as drag'n'drop/export the chosen patterns directly to the host's MIDI track to use with your song.

PATTERN MANAGER WINDOW

Click Pattern button to switch on the Pattern Global mode and get access to Rhythm Pattern Library and Pattern Manager.



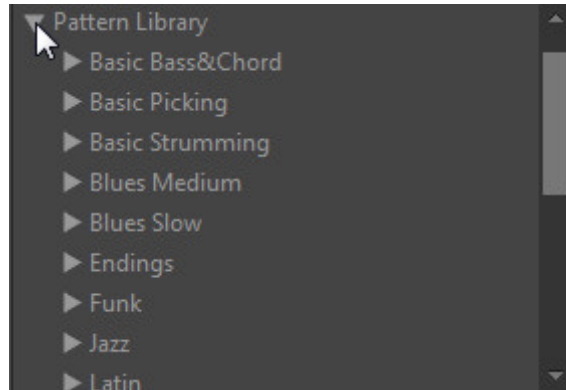
Pattern mode window

Within Pattern Global mode you can select any of Performance modes (Solo, Harmony, Chords, Bass&Chord, or Bass&Pick) by pressing the appropriate performance mode button. Note, that you can use rhythm patterns with all performance modes, the mode selection depends on what harmonic part you want to play with the rhythm patterns:

- Select Chords, Bass&Chord, Bass&Pick modes for automatically constructed guitar chords
- Select Harmony mode to perform intervals with strumming patterns

- Select Solo mode to perform your own chords with strumming or picking patterns

Click the arrow button in the upper left corner to open Pattern Library tree view.



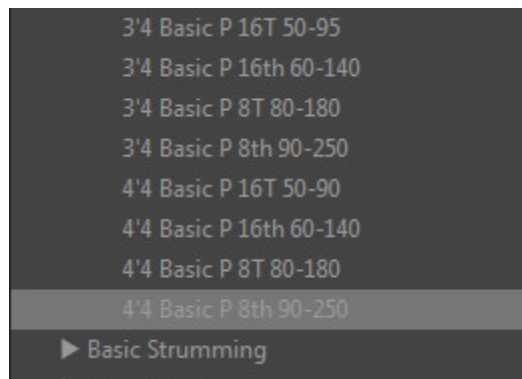
FINDING PATTERN IN MUSICLAB PATTERN LIBRARY

Rhythm patterns are organized within Pattern Library tree view by Category folders and Style subfolders including sets of MIDI patterns. The name of each folder/subfolder contains short musical information helping you to quickly find patterns matching your song.

For instance:

Category name *Basic Strumming* includes a number of guitar strumming Styles.

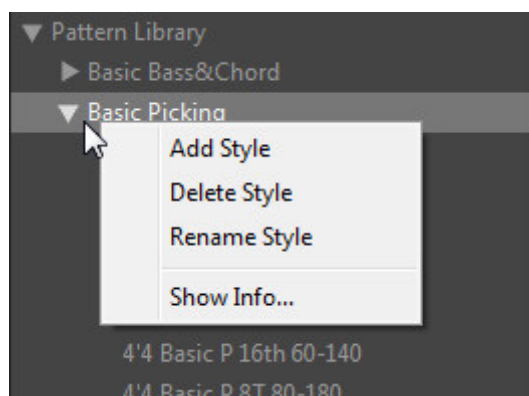
Style name *4'4_Basic_S_8th_90-250* contains Basic style rhythm patterns in 4'4 meter (*4'4_Basic*), featuring strumming technique (*S*), and 8th note rhythm feel (*8th*), usable within the 90-250 bpm tempo range (*90-250*).



Library Tree view. Style folder

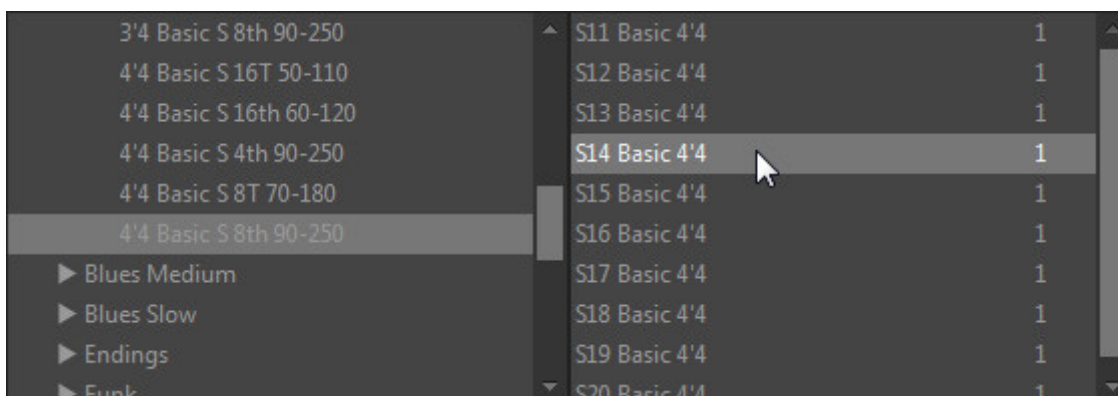
To read the details about ML Pattern library right-click on Pattern Library root folder, and select Show Info item in popup menu.

To read the additional information about Styles included with the Category right-click on Category folder and select Show Info item in popup menu:



SELECTING CATEGORY AND STYLE

To find the appropriate pattern set in Pattern Library tree view choose Category folder and double-click the folder name to get access to the included Styles. Click the appropriate Style name to load the available pattern set to Pattern List pane.



Pattern List

All patterns of ML Pattern Library have unique names containing brief information as well, so you can easily identify them when using outside the Style folder.

For instance:

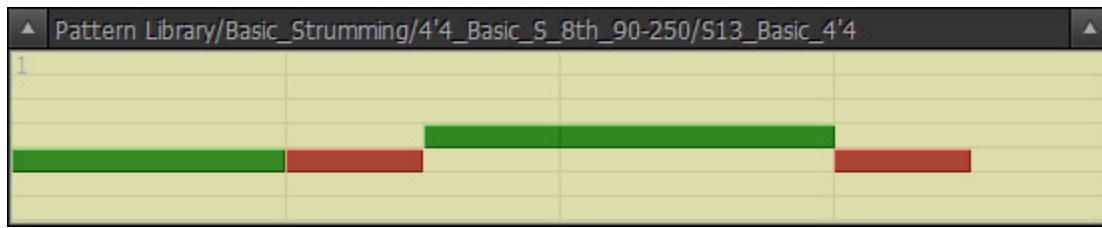
Pattern name *S13_Basic_4/4* indicates strumming technique used (*S*), pattern number (*13*), and Style name (*Basic 4/4*).

SELECTING PATTERN

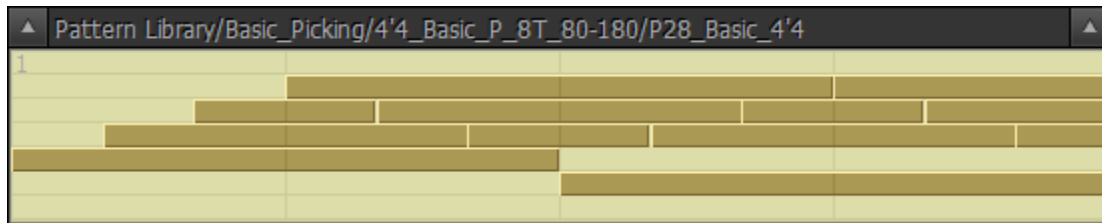
Click on pattern name in the list to select it - pattern rhythmic contents will appear in Pattern view and it is ready to play.

Pattern view graphically presents measures/beats as well as guitar 'Strokes' used in the current rhythm pattern. Differently colored 'Piano Roll' type bars and their vertical position allow to easily identify the stroke types: green bars present Full strums, red ones present Muted strums, blue ones present Slow strums, light

green bars present Top strums, brown ones present individual 'string' picks (up strums bars of the same stroke type are in higher position than down strums):



Strumming Pattern



Picking Pattern

AUDITIONING PATTERN

HOST SEQUENCER IN STOP MODE (OR REALRICK IN STANDALONE RUN)

Press chord on your MIDI keyboard to trigger pattern playback that will be visualized by position cursor moving along the Pattern view. Pattern will perform your chord(s) until you release the keys. Pattern stops when you release the keys and starts from the beginning when you press chord again. Pattern will continue playing if you change chords legato way (if at least one key is constantly pressed).

Press Latch button or MIDI Sustain Pedal to turn pattern playback to 'Latch' mode - in that case pattern will continue playing the last chord even if you release all chord keys.

HOST SEQUENCER IN PLAYBACK MODE

Start your host sequencer. Now pattern will 'silently' follow host's playback until you press chord on a MIDI keyboard (or alternatively insert chord changes to MIDI track). Releasing chord keys mutes the performance. Pressing chord again will continue pattern playing in synch with your host's tempo/beats.

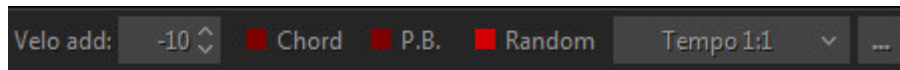
Press Latch button or Sustain Pedal to turn pattern playback to 'Latch' mode - in that case pattern will continue playing the last chord even if you release all chord keys.

Note, that using sequencer in playback mode allows you to easily choose pattern(s) for your song by previously entering chords to a MIDI track and selecting patterns in Pattern Manager 'on the fly' along with the song.

CONTROLLING PATTERN PLAYBACK

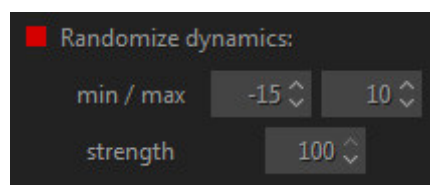
DYNAMICS CONTROL

Pattern Manager has powerful real time velocity control options allowing to drastically change pattern performance:



- **Velo add** - add/reduce velocity
- **Chord** - check to apply velocity of trigger chord to pattern dynamics (+/- velocity)
- **P.B.** - check to assign +/- velocity to Pitch Bender controller for continuous dynamics changes
- **Random (velocity)** - check to switch randomization on

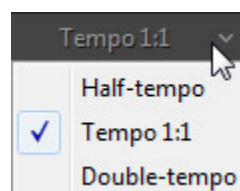
Click Pattern Settings button (the one at the right w/three dots picture) to adjust randomization parameters:



- **min box** - minimum deviation range
- **max box** - maximum deviation range
- **strength (%)** - sensitivity of randomization, at 100% all pattern notes will be randomized

TEMPO CONTROL

Pattern Manager takes tempo value from the host sequencer, but you can make it twice lower or higher by simply selecting the appropriate item in Tempo combo box:



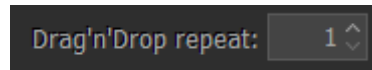
TRANSFERRING PATTERN TO HOST'S MIDI TRACK

If you want to use more than one rhythm pattern for your song you have to copy the chosen patterns from Pattern Manager to MIDI track of your host sequencer. There are two ways to do that:

DRAG'N'DROP PATTERN

The simplest way to copy pattern to MIDI track is to drag'n'drop the selected pattern directly from Pattern view. To do this click on Pattern view and drag the pattern to the needed measure of a MIDI track.

You can automatically multiply pattern by the appropriate number of cycles if you previously set the desired number of repetitions in D'n'D Repeat box found on Pattern Settings panel:



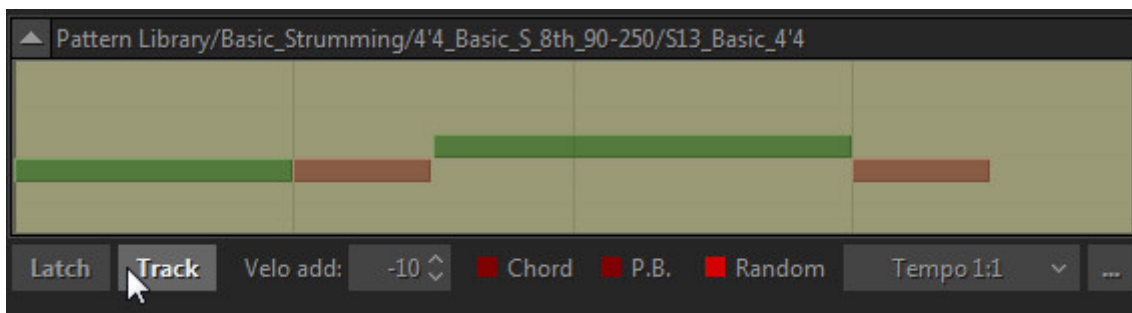
Note. Velo add and Random parameters will be also applied to the exported pattern (MIDI file).

IMPORT PATTERN TO MIDI TRACK

If your host doesn't support drag'n'drop MIDI data you can previously drag out pattern from Pattern view directly to Windows – it will be exported as a Standard MIDI file, and then import it to your sequencer. In Mac version: right-click on Pattern view and select 'Export to Desktop' in pop up menu. Alternatively you can import pattern right from RealRick installation folder (by default: *C:/Program Files/MusicLab/RealRick 4/Loops/Pattern Library*), but in that case you get single original pattern and you have to multiply it manually in a MIDI track of your host.

USING RHYTHM PATTERNS IN A MIDI TRACK

When the appropriate rhythm patterns for your song parts are successfully found in Pattern Manager and copied to the host's MIDI track, press Track button to cancel pattern loaded in Pattern Manager (it will be grayed out) and work with pattern on MIDI track only.



There are two ways of creating guitar part with the help of rhythm patterns playing from MIDI track to RealRick: real-time and non-real-time methods.

NON REAL-TIME METHOD

- Create MIDI track for chords, output it to RealRick, and enter chord changes for you guitar part (step record chords from your MIDI keyboard or manually enter notes via sequencer's editor)

- Start your sequencer to listen to the ready part.

REAL-TIME METHOD

- Create MIDI track for chords, output it to RealRick
- Start sequencer and play/record chord changes to RealRick from your MIDI keyboard

Real-time method is more intuitive and allows to control pattern playback adding various expressive adjustments to the performance.

CONTROLLING PATTERN PLAYBACK

You can control pattern playing from MIDI track with the help of chords played on a MIDI keyboard by pressing and releasing keys, using Latch button (or Sustain Pedal), and also by triggering Slow Strum (Velocity Switch FX).

LATCH MODE (SUSTAIN PEDAL)

With Latch button disabled pattern will play only while you are holding the chord on your MIDI keyboard, and it will be muted when you release the keys. This allows you to play guitar pattern here and there along with the song. With Latch button (or Sustain Pedal) pressed pattern will continue playing even if you release the keys.

SLOW STRUM

Use Slow Strum velocity switch FX to add syncopes and accents to pattern playback:

- Temporarily mute pattern by triggering Slow Strum (the time window can be adjusted by 'SlowZone' Automation parameter)
- Completely stop pattern by triggering Slow Strum and quickly releasing the keys (to stop Slow Strum sound press the Mute key (Black) of the left Repeat zone). To continue pattern playback press the chord again.

Note, with Latch button (Sustain Pedal) pressed you can't completely stop pattern by triggering Slow Strum and releasing the keys.

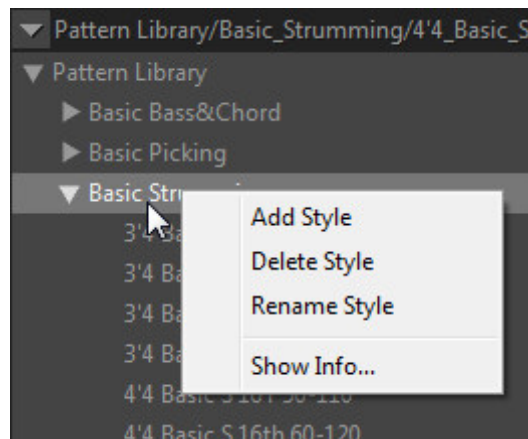
CREATING CUSTOM STYLES FOR PATTERN LIBRARY

ORGANIZING EXISTING PATTERNS IN CUSTOM STYLES

You can create your own pattern sets by copying the favorite patterns taken from the ML Pattern Library and organizing them as custom Styles within Library tree view for future use:

- Select pattern you are going to copy to your new Style - it will appear in Pattern view

- Right-click on a Category folder or Style subfolder of the Tree view and select Add Style in pop up menu. Name the newly created empty folder (the Pattern List pane will be empty)



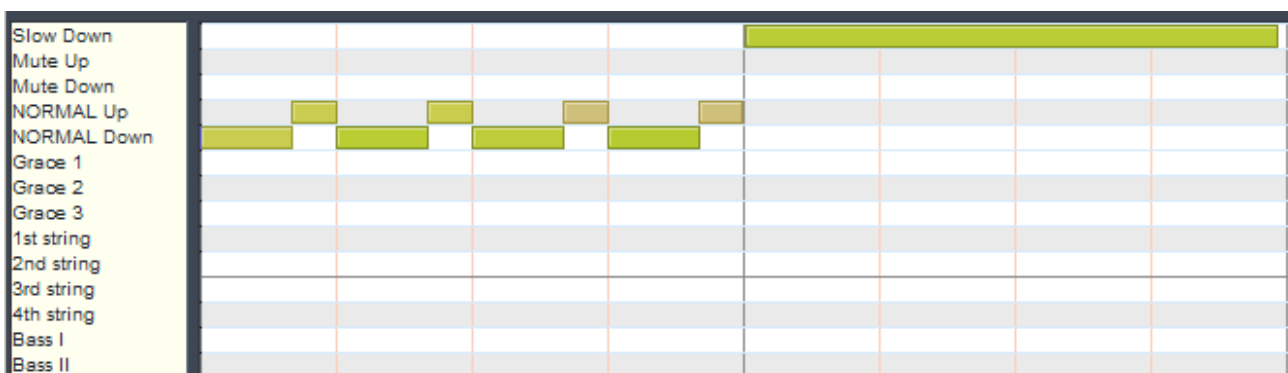
- Press 'Add' button under Pattern List pane to copy the current pattern to your new Style folder
- Find and audition other patterns, and copy them one by one to the new Style using the same method

You can also delete/rename Style folders by right-clicking on it and selecting the appropriate item in popup menu.

CREATING CUSTOM PATTERNS

RealRick rhythm patterns are single track Standard MIDI files (SMF format 0) recorded with special Stroke Map notes, so advanced users can edit the existing patterns or create their own patterns from scratch in the host's MIDI track, and then save/export them as SMF directly to Pattern Library folder for future use (*C:\Program Files\MusicLab\RealRick\Loops*).

Guitar Stroke Map incorporated in RealRick allows to use up to 22 MIDI notes in the lowest octave range (from C#-2 to A#-1) for emulating a number of guitar techniques (Strokes) within a MIDI rhythm pattern. So, you can use the Stroke Map notes for creating your own rhythm patterns including various guitar 'Strokes', such as chord strums (up/down), slow strums (up/down), individual string picks, bass note pick, muted strums (up/down), chord slides (using chromatic strums), etc.



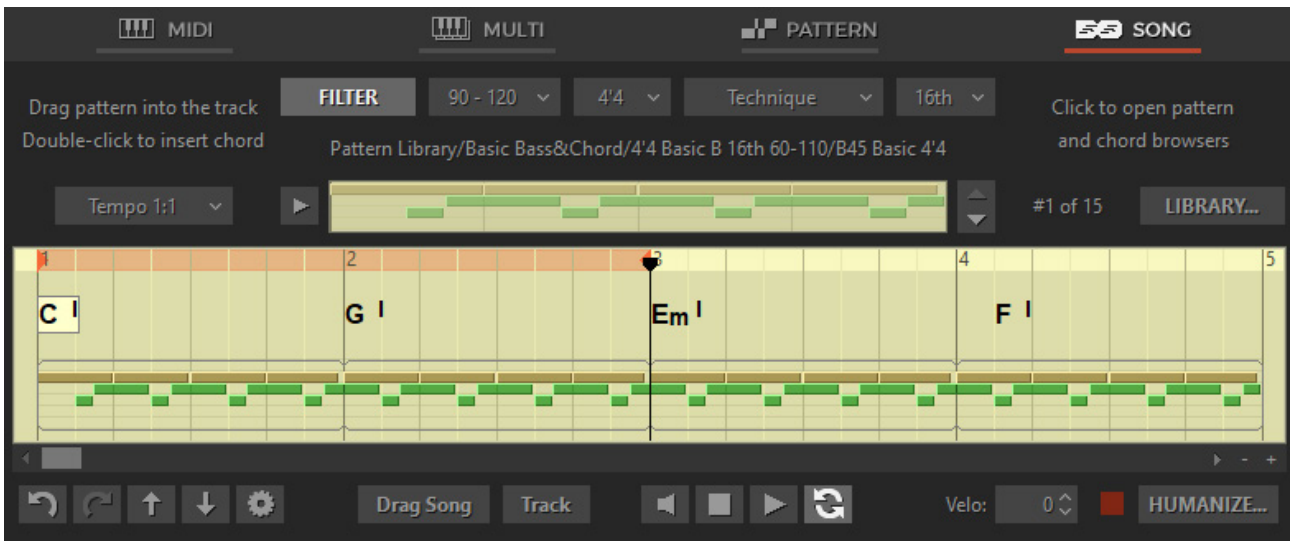
Strumming Pattern in MIDI track

REALRICK STROKE MAP

Note #	Note name	Stroke name
22	A#-1	"Slow Upstrum"
21	A -1	"Slow Downstrum"
20	G#-1	"Muted Upstrum"
19	G -1	"Muted Downstrum"
18	F#-1	"Full Upstrum"
17	F -1	"Full Downstrum"
16	E -1	"Full Downstrum 1 semi-tone lower"
15	D#-1	"Full Downstrum 2 semi-tones lower"
14	D -1	"Full Downstrum 3 semi-tones lower"
13	C#-1	"1st string"
12	C -1	"2nd string"
11	B -2	"3rd string"
10	A#-2	"4th string"
09	A -2	"Bass I"
08	G#-2	"Bass II"
07	G -2	"Muted Top Upstrum"
06	F#-2	"Muted Top Downstrum"
05	F -2	"Top Upstrum"
04	E -2	"Top Downstrum"
03	D#-2	"Top Downstrum 1 semi-tone lower"
02	D -2	"Top Downstrum 2 semi-tones lower"
01	C#-2	"Top Downstrum 3 semi-tones lower"

Top strum - strum on the 3-4 higher strings (Bass strings omitted)

SONG GLOBAL MODE



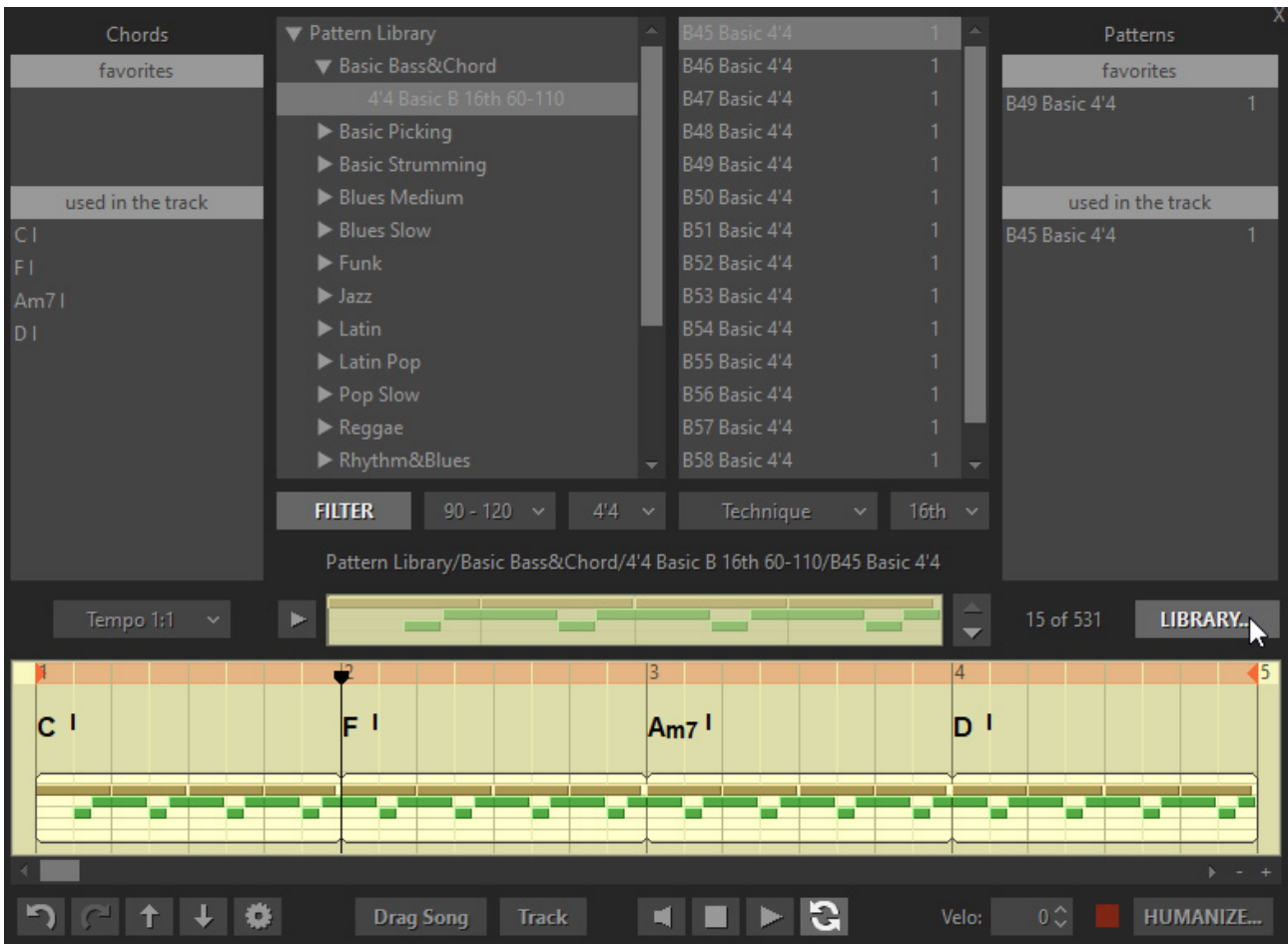
Song mode window

Song mode turns RealRick 4 into a powerful and easy-to-use songwriting tool allowing you in no time create perfect guitar backing tracks for your songs. Insert chord symbols in the needed measures of the built-in Song Track, browse and drag and drop patterns into it - and your guitar part is ready!

At the bottom is the Song track section where you can insert chords and patterns to construct your guitar part.

WORKING WITH PATTERNS

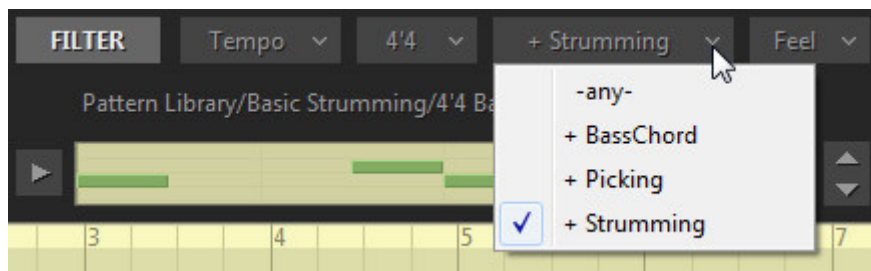
PATTERN LIBRARY BROWSER



Click the 'Library' button to open Pattern Library browser.

STYLE FILTER

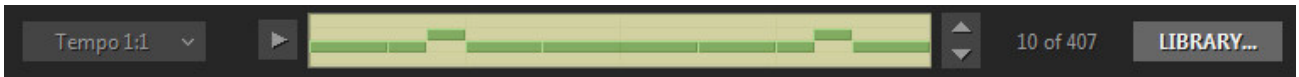
Pattern Library includes 1250 guitar rhythm patterns organized in various musical categories and styles (folders and subfolders). To let you easily find the suitable patterns for your song we have developed the powerful Style Filter allowing to automatically select pattern sets by musical criteria: tempo range, meter, playing technique, and rhythm feel.



Simply press Filter button to switch it on, select the needed item in popup menu of the appropriate Filter combo boxes, and the Filter will hide folders and patterns not matching the required criteria.

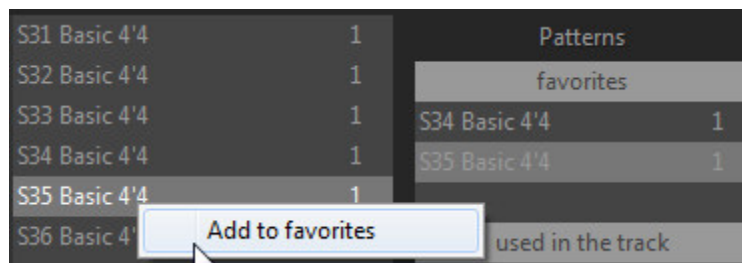
Selecting the folder or subfolder of the Pattern Library tree view will load the available set of patterns into Pattern list pane at the right.

Select pattern name in the list to load pattern to Pattern view strip and press Play button at the left of Pattern view to audition the selected pattern. Navigate through the pattern list by clicking arrow buttons at the right of Pattern view or alternatively use Up/Down Arrow keys of the computer keyboard.



To the left of Pattern view is the Tempo combo box allowing you to make pattern tempo twice lower or higher by simply selecting the appropriate item in popup menu. Note, that pattern inserted into the Song Track will play in the current tempo selection.

In case you find pattern that you want to keep for future use, drag it from the Pattern list to the 'Favorites' section, or alternatively right click the pattern and select 'Add to favorites' in popup menu.

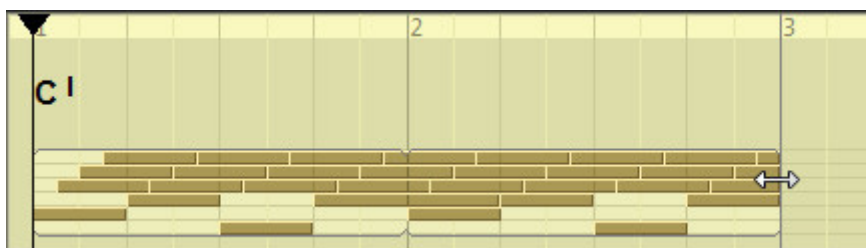


Once you find the needed pattern simply drag and drop it into the Pattern track located in the lower part of the Song track. You can drag patterns from Pattern view, Pattern list, 'Favorites', and 'Used in the track' sections.

PATTERN TRACK

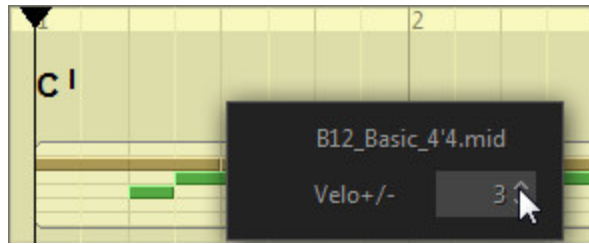
Pattern inserted into the Song track will automatically appear in 'Used in the track' section, which allows you to easily use it in other places of the song by dragging it directly from 'Used in the track' section.

You can shorten or multiply pattern in the Song track by simply dragging its right boundary.



Right-click the song pattern to open a context menu allowing you to copy/paste/delete pattern(s), or split and chop the multiplied pattern, as well as get access to Pattern Properties panel.

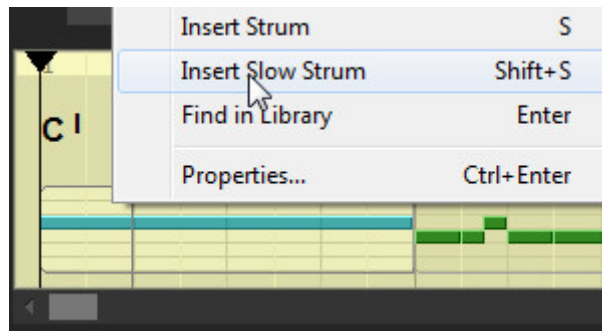
Properties panel displays the pattern name and allows modifying the dynamics of the pattern by adding/reducing the output velocity of pattern notes.



Double-clicking song pattern will reveal it in Pattern Library, alternatively you may right-click the pattern and select 'Find in Library' item in popup menu.

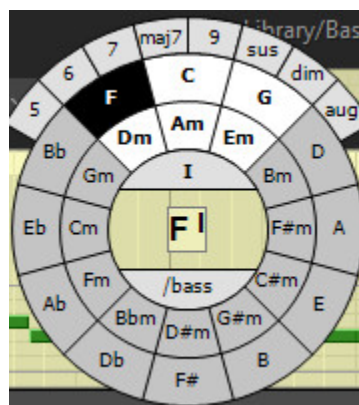
INSERTING SINGLE STRUM

It is possible to insert a single strum directly into the Pattern track rather than finding it in the Library. Right-click the Pattern track in the needed place and select Insert Strum or Insert Slow Strum in popup menu.



WORKING WITH CHORDS

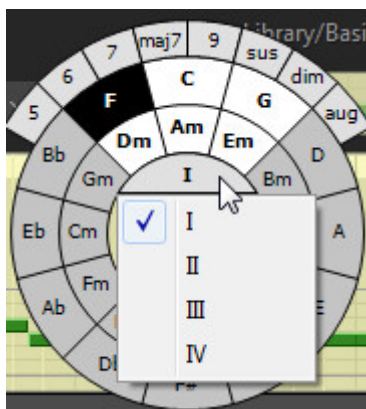
CHORD SELECTOR



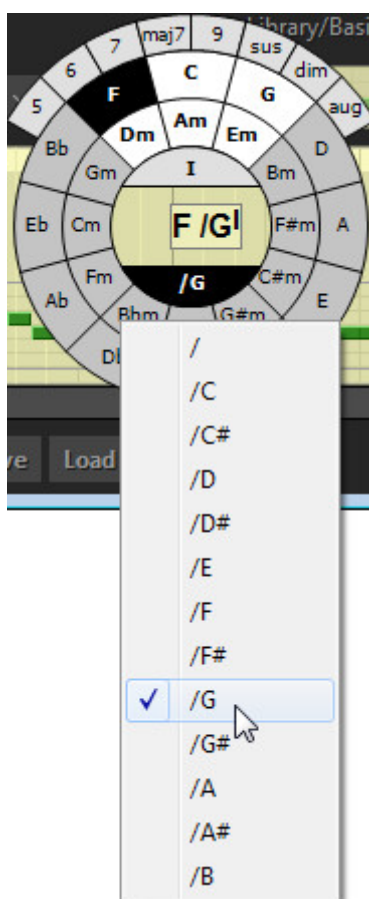
Double-click the chord track to open the Chord Selector based on the Circle of Fifths (alternatively right-click and select 'Insert chord' in popup menu, or press Enter on computer keyboard). Chord Circle provides all major and minor chords and displays a Key Center including six relative chords at the top. To change the Key Center simply right-click the appropriate major or minor chord name in the circle.

Click chord name button to select minor or major chord. Buttons on the upper panel allow selecting other chord types and/or extensions.

You can change Chord Position (inversion) of the chord by clicking the upper segment of inner circle and selecting the needed position number in popup list.



If you want to create slash bass chord you can add alternative bass note to the chord by clicking the lower segment of the inner circle and selecting the needed note in popup list.

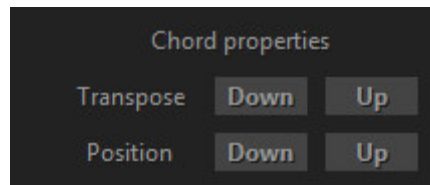


To insert the selected chord into the chord track press Enter key on computer keyboard, or alternatively click the center part of Chord Selector. To cancel inserting press Esc key.

EDITING CHORDS

Select the chord and press Enter, or simply double-click it, or alternatively right-click the chord and select Edit Chord in popup menu to bring up the Chord Selector. When the edits are done press Enter to confirm the changes. To cancel edits press Esc key.

Right-clicking the chord will bring up a menu for copying and pasting of chord(s), deleting selected chord(s), bringing up Chord Selector to edit a chord, as well as getting access to Chord Properties panel.



Clicking on Up/Down buttons will transpose chord(s) by semitones (alternatively use +/- computer keys), as well as change chord position (alternatively use Ctrl + '+/-' computer keys).

You can also change '#' (sharp) to 'b' (flat) and vice versa in the chord name by right-clicking the chord and selecting 'Enharmonic shift' item in popup menu, or alternatively press '*' computer key.

'FAVORITES' SECTION

This section allows you to reserve the chord set you are going to further use in a song and then simply drag them to the needed measures of the Chord track.

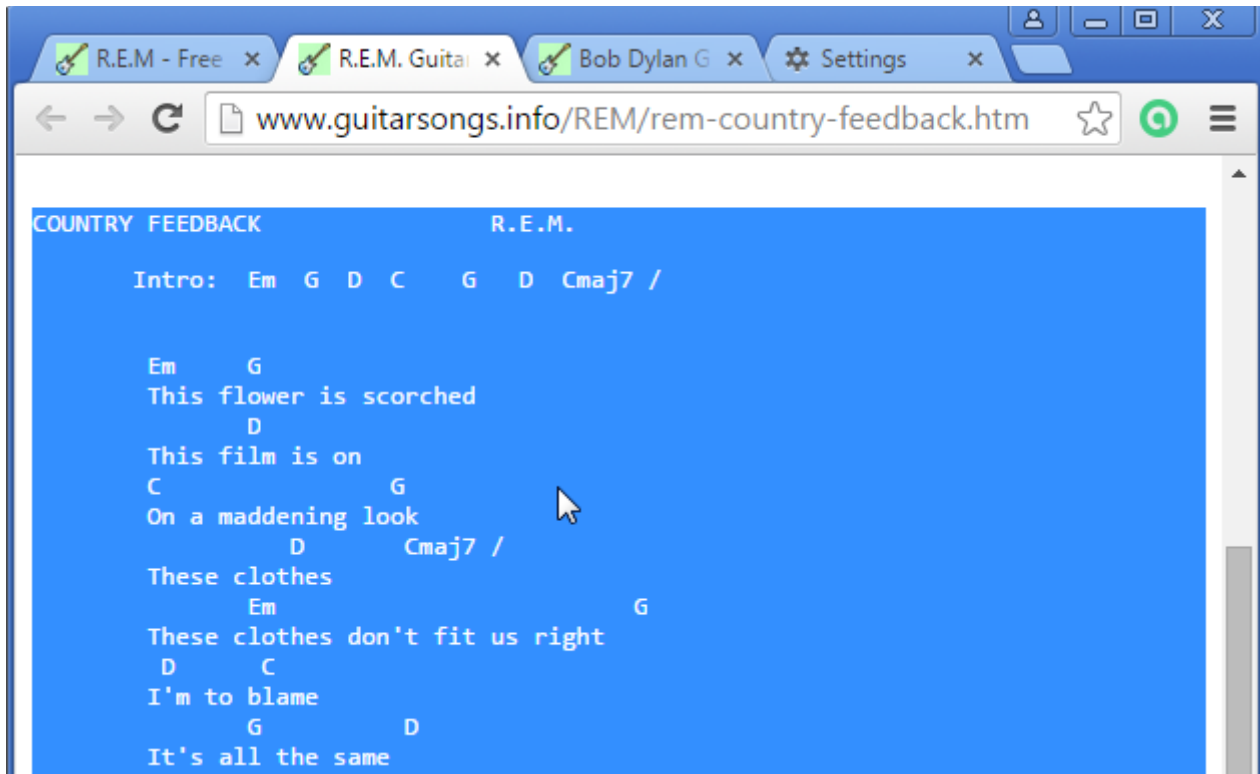
There are three ways to put chords into the 'Favorites' section:

1. Import the chord set from the WEB page by simply dragging the selected text directly to 'Favorites' section
2. Import the chord set from any standard chords/lyrics Text Document file containing chord names.
3. Insert chords one-by-one using Chord Selector (double-click to open Chord Selector, or alternatively right-click and select 'Add chord' in popup menu)

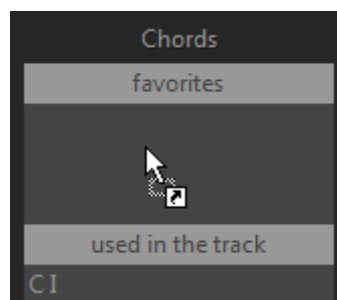
IMPORTING CHORDS FROM THE WEB PAGE

Find chords/lyrics content of the needed song on any site, such as Ultimate Guitar <http://www.ultimate-guitar.com>, Chordie <http://www.chordie.com>, Heartwood Guitar Instruction <http://www.heartwoodguitar.com>, Guitar Chords and Lyrics <http://www.guitarsongs.info> to name a few.

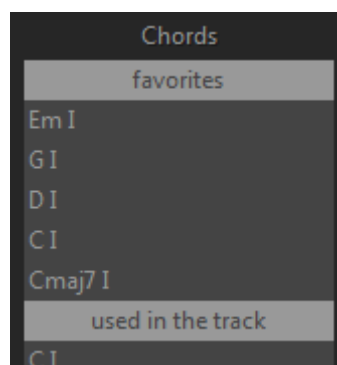
Select the text with a mouse,



drag and drop it directly into 'Favorites' section,

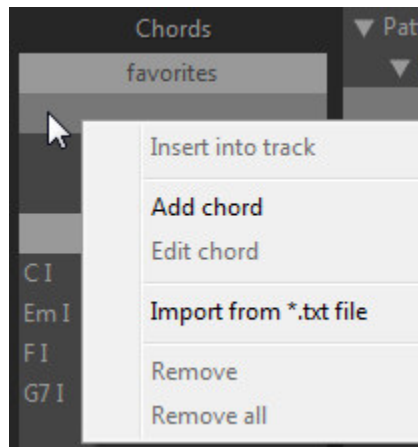


and instantly get ready to use chord set for your song!



IMPORTING THE CHORD SET FROM A TEXT DOCUMENT

You may simply drag *.txt file directly into 'Favorites' section, or alternatively right-click the section and select 'Import from *.txt file' item in popup menu, and then browse the needed file in the opened dialog.

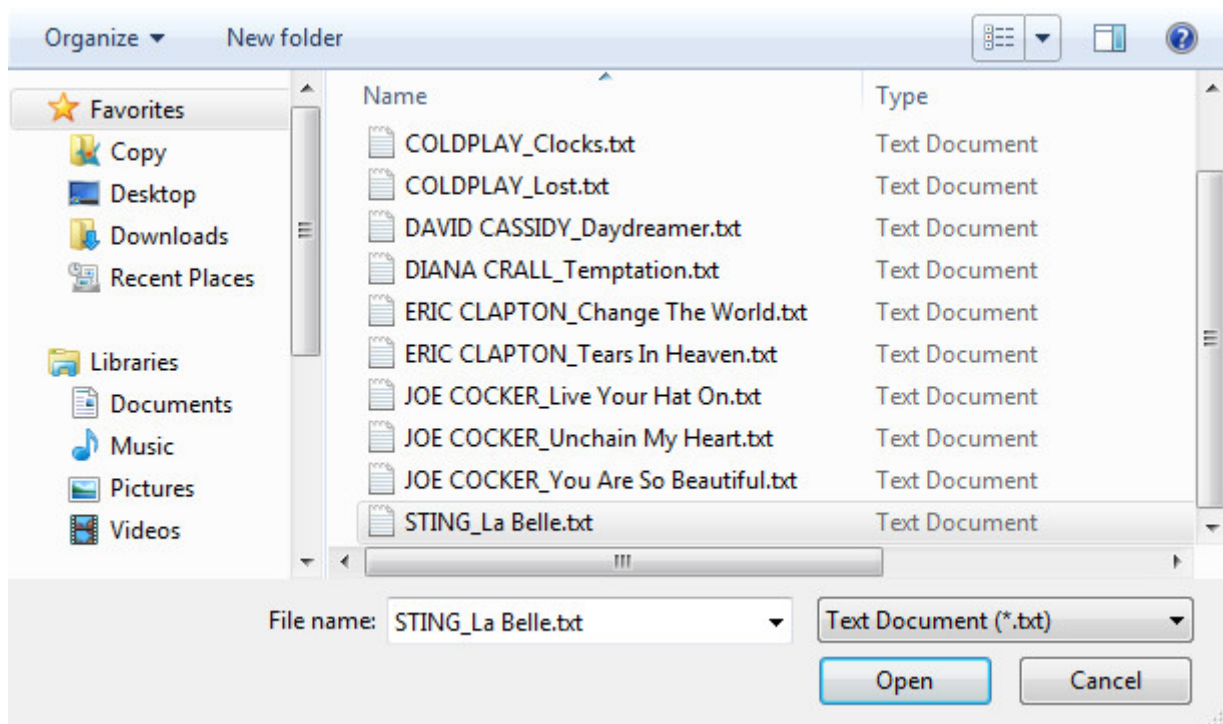


Example:

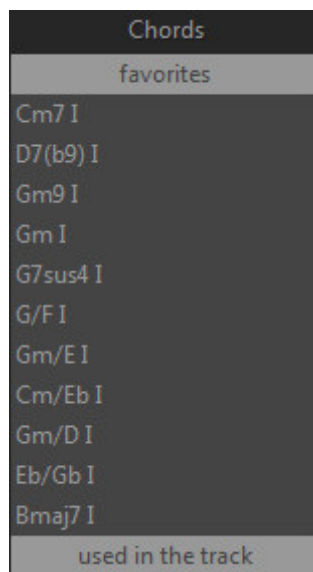
```
La Belle Dame Sans Regrets

      Cm7      D7b9      Gm9      Gm
1. Dansons tu dis et moi, je suis
Ebmaj7      D7b9      G7sus      G/F
Mes pas sont gauches mes pieds tu fauches
      Gm/E      Cm/Eb      Gm/D      Gm
Je crains les sots je cherche en vain les mots
      Gm/E      Eb/Gb      Bmaj7      G7sus
Pour m'expliquer ta vie alors...
```

Import the Sting song lyrics/chords file.



Or simply drag and drop the file into the 'Favorites section and instantly get ready to use chord set:

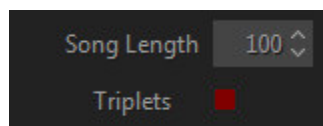


Once you insert chord into the Song track it will appear in 'Used in the track' section on the left side of Library window, which allows you to easily use it in other places of the song by dragging it directly from 'Used in the track' section.

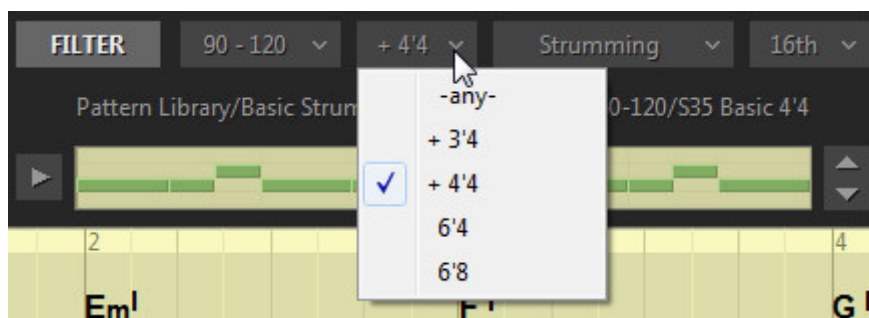
TIME LINE

Time line area allows you to navigate along the song with a mouse click or Left/Right Arrow keys, as well as start/stop playback with a double-click.

Right clicking on the time line will open settings panel, where you can set the number of measures you need for the song in Song Length numeric box, as well as set triplet beat division (grid) if needed for the track by activating Triplets LED.

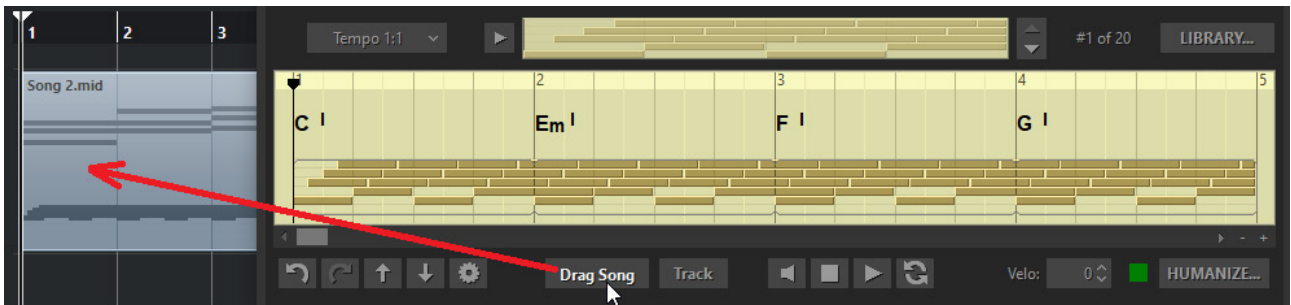


To change time signature display from the default 4/4 to any other available in the Library, click the Meter combo box of Filter section and select the needed item in the popup menu.

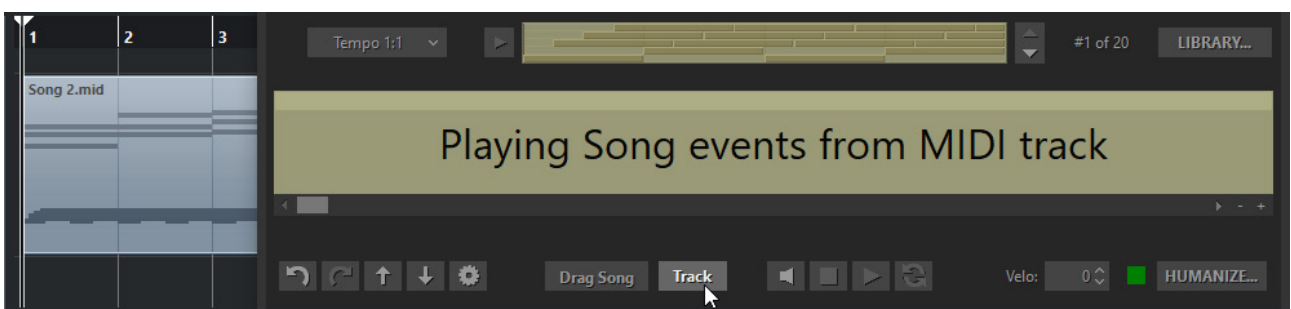


MOVING SONG EVENTS TO MIDI TRACK

When the song or its part is finished you can export it to your DAW's MIDI track, edit and play back it directly to Song mode window. To do that simply drag song events (chord and pattern tracks) from Drag Song button to MIDI track,



and activate Track button in the lower part of Song mode window.



Note, that with this scenario RealRick is not synched with your DAW's time line, which allows you to put/copy and playback the dragged MIDI clip(s) at any place of your project.

CONTROLS

Below the Song track are various Edit, Transport, and Performance controls.



Play/Pause - click to start/pause playback (alternatively press Space bar, or double-click Time line).



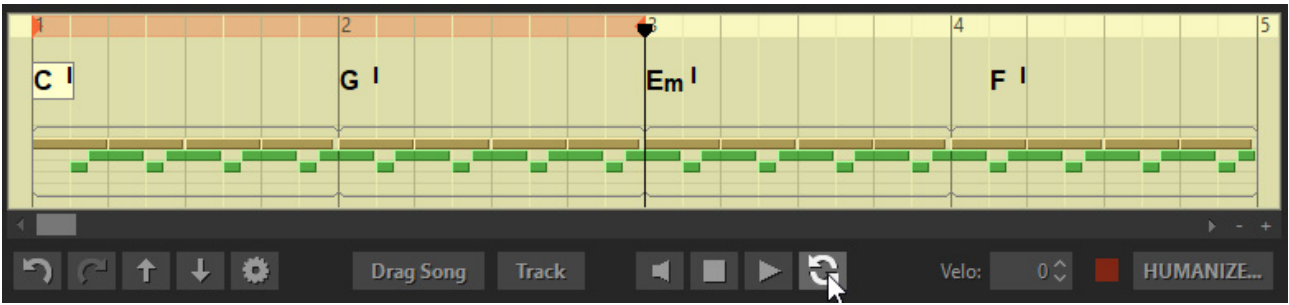
Stop - click to stop playback and return to start position, second click will return to zero position.



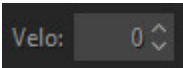
Activate to **audition chord changes** on playback.



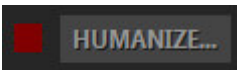
Loop - click to activate internal **Loop** in Song track.



Set Left and Right locators for the Loop by dragging mouse cursor over the Time line.



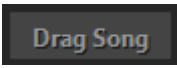
Add/Reduce output velocity (can be automated by MIDI CC#122).



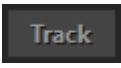
Switch on/off the Humanize engine. Open Humanize settings window.



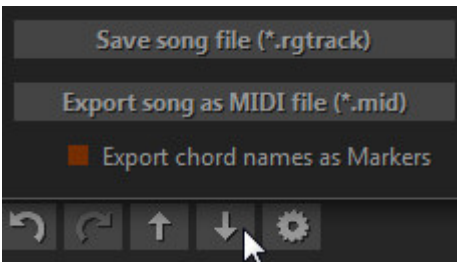
Undo/Redo edits done in the Song Track.



Drag out Song events (patterns and chords) to MIDI track.



Activate 'Play Song events from MIDI track' mode.



Save/Export the Song track.



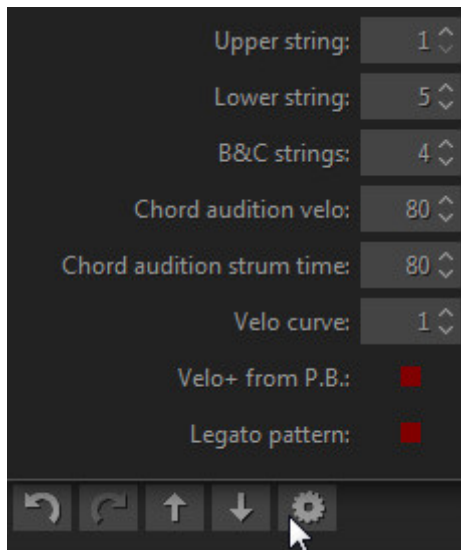
Load the Song track (*.rgtrack file).



Open Settings panel.

SETTINGS PANEL

Clicking the Settings button will bring up the Settings panel.



Upper string - disables upper strings for strumming patterns.

Lower string - disables lower strings for strumming patterns.

B&C strings# - specifies the number of sounding strings for Bass&Chord patterns.

Chord audition velo - specifies velocity value for chord audition.

Chord audition strum time - specifies strum time for chord audition.

Velo curve - select the output velocity curve.

Velo+ from P.B. - assign +/- velocity control to Pitch Bender controller.

Legato - click to allow the last note of shortened pattern continue sustaining its full length in the close next pattern.

KEYBOARD SHORTCUTS

SONG TRACK

Command	Shortcut	Mouse
Play/Pause	Spacebar	Double-click on Time line
Stop	Ctrl + Spacebar	
Navigate Track vertically	Up/Down arrows	
Navigate Track horiz. by beats	Left/Right arrows	
Navigate Track horiz. by grid	Ctrl + Left/Right arrows	
Navigate between chords	Left/Right arrows	
Navigate Chord track, beats	Tab, Shift+Tab	
Navigate Chord track, grid	Ctrl +Tab, Shift + Ctrl +Tab	
Select all chords and patterns	Ctrl +A	
Insert Strum	S	
Insert Slow Strum	Shift +S	
Find pattern in Library	Enter	Double-click Pattern
Open Pattern Properties	Ctrl + Enter	Right-click Pattern
Copy Pattern(s)	Ctrl +C/Ctrl+V	Ctrl+Drag
Move/Resize Pattern without grid		Alt+Drag
Add/reduce Pattern velocity	+/-	
Zoom in/out horizontally		Mouse Wheel
Open Track Properties	Ctrl + Enter	Right-click on Time line
Open Chord Properties	Ctrl + Enter	Right-click the Chord
Open Chord Selector	Enter	Double-click the Chord
Move Chord(s) without grid		Alt +Drag
Copy Chord(s)	Ctrl +C/Ctrl+V	Ctrl +Drag

CHORD SELECTOR

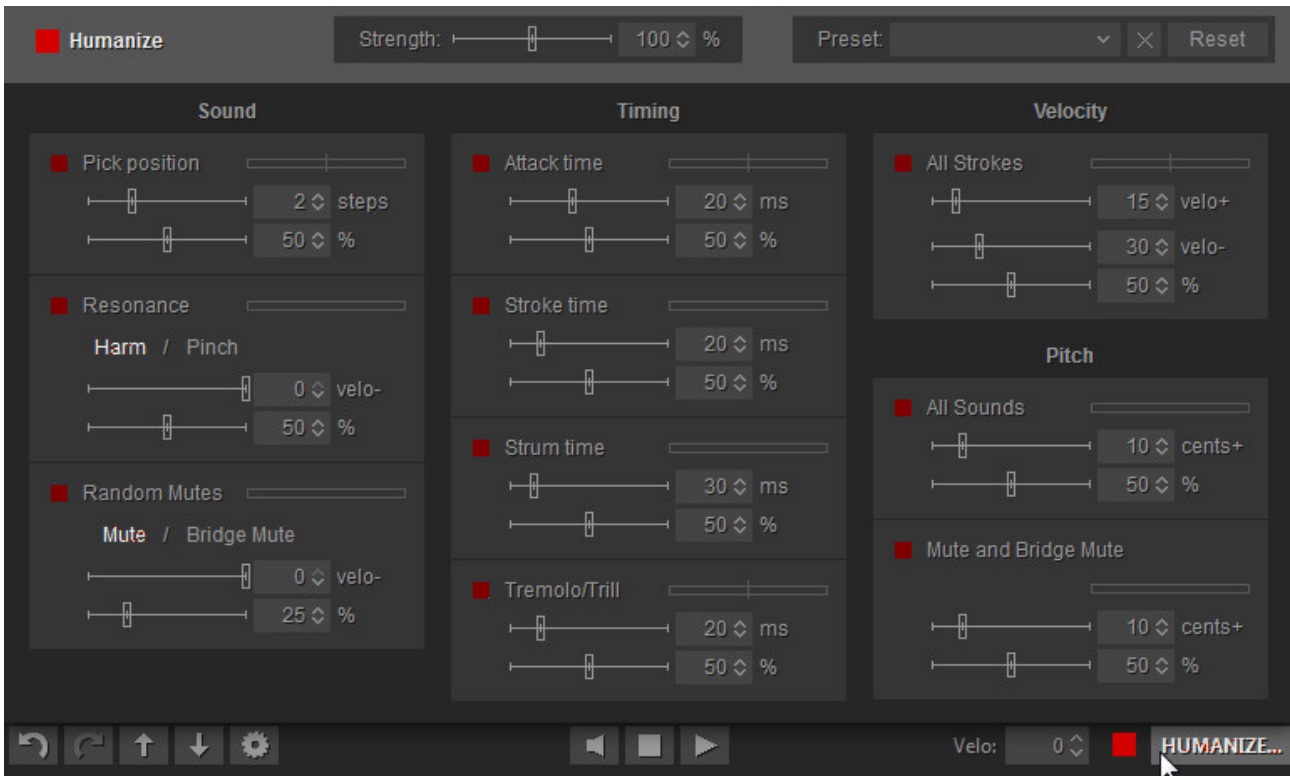
Command	Shortcut	Mouse
Select major chord	C/D/E/F/G/A/B	
Select minor chord	M+C/D/E/F/G/A/B	
Select '#' chord	Shift +C/D/F/G/A	
Select 'b' chord	Ctrl +D/E/G/A/B	
Navigate through the circle	Arrow keys	
Insert chord	Enter	Click outside the circle
Cancel chord edits	Esc	

Transpose chord	+/-	
Change chord position	Ctrl+Plus (+)/Minus (-)	
Enharmonic shift (#/b)	*	
Change Key Center		Right-click Chord name

Note, Mac users should use CMD key instead of CTRL key

HUMANIZE

You can easily add more realism to the performance (both live played or step-recorded, or automatic) using RealRick advanced Humanize option.



Humanize panel

Click the Humanize button in the lower right corner of RealRick window to open the Humanize panel. Activate the option by clicking on LED in the upper left corner (the LED is duplicated at the left of Humanize button, so you can switch it on/off even when Humanize panel is closed).

Humanize Panel has 9 parameters grouped under functional headings: Sound, Timing, Velocity, and Pitch. Each parameter has individual switch LED and two sliders. The upper slider controls the maximum range of parameter being applied (steps, milliseconds, velocity, cents), while the lower one controls the sensitivity of randomization in percentage (at 100% all playing notes will be affected).

SOUND

Pick Position - randomly changes Pick Position parameter value.

- Set maximum range with the 'steps' slider.

Resonance - randomly triggers open string adjacent to the current played (works for 5 upper strings). This simulates the effect of a guitarist accidentally striking or resonating strings.

- Click on Harm or Pinch name to select Harmonics or Pinch Harmonics sound for resonance.
- Reduce the volume of resonance sound with 'velo-' slider.

Random Mutes - randomly changes Sustain sound to Mute or Bridge Mute. This simulates the effect of a guitarist accidentally not pressing the string hard enough.

- Click on Mute or Bridge Mute name to select the sound.
- Reduce the volume of mute sound with 'velo-' slider.

TIMING

Attack Time - randomly changes the Attack Time parameter value.

- Set maximum value with 'ms' slider (0-50 msec. range)

Stroke Time - randomly delays the note-on time of all playing notes.

- Set maximum value with 'ms' slider (0-100 msec. range)

Strum Time - changes the time window between simultaneously played notes (interval, chord).

- Set maximum value with 'ms' slider (0-200 msec. range)

Tremolo/Trill - randomizes automatic tremolo or trill notes timing.

- Set maximum value with 'ms' slider (0-100 msec. range)

VELOCITY

All Strokes - changes velocity values of all playing strokes.

PITCH

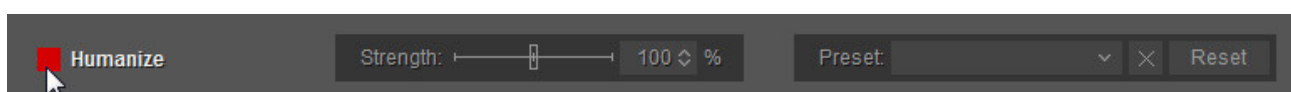
All Sounds - sharpens the pitch of all sounds.

- Set maximum value with 'cents' slider (0-50 cents range)

Mute and Bridge Mute - sharpens the pitch of Mute, Bridge Mute sounds.

- Set maximum value with 'cents' slider (0-50 cents range)

MASTER SECTION



Big LED - switch on or off the Humanize option.

Strength (Master) - add/reduce sensitivity for all parameters proportionally.

Preset - save all settings made in Humanize window as user presets for future use.

To create a preset, click on Preset combo box to activate Edit mode, type in the preset name, and press Enter on computer keyboard. Preset will be saved within RealRick and added to preset list.

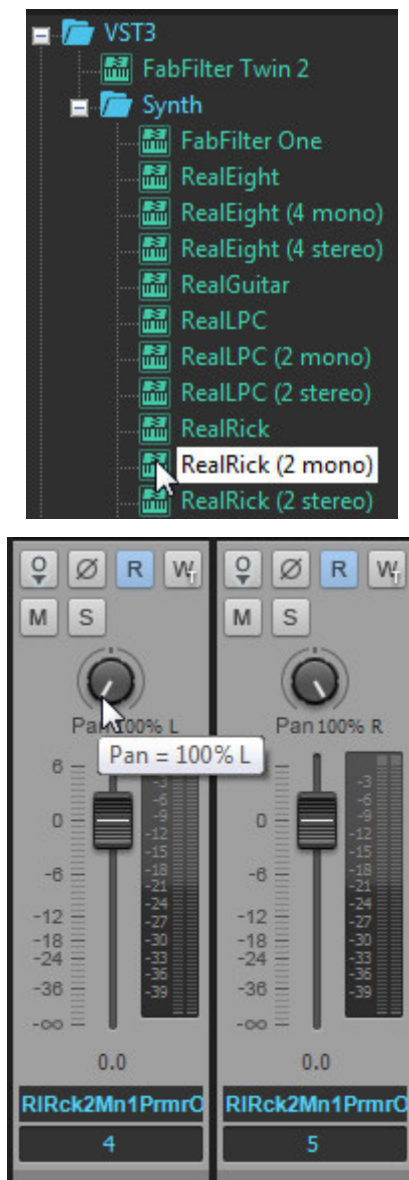
To delete preset simply click on Delete icon at the right.

Reset - click to reset all settings to factory default values.

DOUBLE-TRACKING

'Double-Tracking' is a technique that is frequently used in recording guitar tracks. The guitarist plays the same part twice (one for Left channel, and one for Right channel), that gives the guitar track a nice, wide-spread stereo images and a thickness.

You can easily reproduce these techniques by just running RealRick multi output version (RealRick (2 mono), or RealRick (2 stereo) – these plugins provide 2 outs in your DAW's mixer), loading RealRick Double-track patch, and then panning channels in your DAW's mixer hard left and hard right, and adding amps/FXs on each channel.



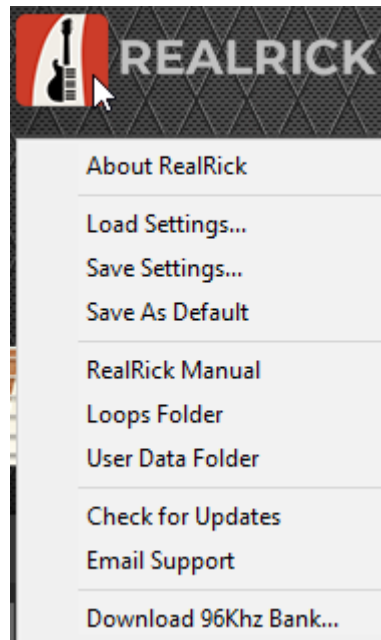
With RealRick 2 output version you don't need to create copies of MIDI tracks and tweak them, but simply use the single track for MIDI data (played or step recorded), and RealRick sampler engine will process it to true double-tracked guitar parts with no identical samples playing simultaneously in different channels!

For wider sound you can add some additional delay between channels with Double-Trk Delay slider found in Right menu bar->Timing panel.

To correctly configure RealRick 2 output plugin in your DAW, please refer to the DAW's User Manual for details.

IMPORTING/EXPORTING GLOBAL SETTINGS

You can save all modifications you've made to Global Preset (external *.rgsong file) containing overall settings, which allows to easily export all changed data as a single file and import it when needed. Click on MusicLab logo to save/load the Global Settings:



Note, all current settings are saved within a project doc of your DAW as well.

If you want the current settings load every time you run RealRick, select 'Save As Default' item in the popup menu. To return factory default settings press Reset button in SetUp panel and select 'Save As Default'.

APPENDIX A. PARAMETER AUTOMATION MIDI CC AND VST MAP

RealRick	MIDI CC #	VST name
<i>Output</i>		
Volume	7	Volume
EQ, High	29	EQ-High
EQ, Low	30	EQ-Low
MIDI Out, select		Outmode
<i>Tune</i>		
Pitch, Coarse	12	PtchCrse
Pitch, Fine Tune	13	PtchFine
Modulation, Depth	14	ModDepth
Modulation, Freq	15	ModFreq
<i>Mixer</i>		
Mixer_Muted_sound, Volume	20	MxMuted
Mixer_Slow_Strum, Volume	21	MxSlStrm
Mixer_Switch_FX, Volume	22	MxKeyFx
Mixer_FretNoise, on/off,	23	MxFrtN_
Mixer_FretNoise, Volume	24	MxFrtNse
Mixer_ReleaseNoise, on/off	25	MxRelN_
Mixer_ReleaseNoise, Volume	26	MxRelNse
Mixer_Pick/Noise, on/off	27	MxPckN_
Mixer_Pick/Noise, Volume	28	MxPckNse
<i>Wah-Wah</i>		
Wah-Wah, On/Off	47	WahOnOff
Wah-Wah_mode, select	46	WahMode
<i>Common</i>		
Alter_sample, mode	52	AltSmple
Accent_High_Threshold	51	VelTrshH
Accent_Low_Threshold	53	VelTrshL
Release_Time	55	RlseTime
Attack_Time	49	AtckTime
Strum_Time	56	StrmTime
Pick_Position, select	43	PickPos
Fret_Position, select	78	FretPos
Auto_Fret_Position, on/off	79	AutoFret
Hold, on/off	64	Hold

<i>Controllers</i>		
Pitch_BenderUp, Mode	57	PBupMode
Pitch_BenderDown, Mode	48	PBdnMode
PBenderUp_to_Slide, Range	58	PBSldRng
PBenderDown_to_Slide, Range	63	PBdnSIRn
PBender_to_Pitch, Range	59	PBPtcRng
Modulation_Wheel, Mode	60	WhMode
ModWheel_to_Slide, Range	61	WhSldRng
ModWheel_to_Pitch, Range	62	WhPtcRng
Aftertouch, Mode	75	AtchMode
Aftertouch_to_Pitch, Range	76	AtchRng
Velocity_Curve, select	77	VelCurve
<i>Velocity Switch FX (non-Solo)</i>		
Velo_Switch_Slide_mode, select	85	VelSlide
VelSw_SlideUp, Velo	86	SldUpVel
VelSw_SlideUp, Steps	87	SldUpStp
VelSw_SlideUp, Time	88	SldUpTim
VelSw_SlideDown, Velo	89	SldDnVel
VelSw_SlideDown, Steps	90	SldDnStp
VelSw_SlideDown, Time	102	SldDnTim
Slow_Strum_on_high_velo, select	112	SIStrmHi
Slow_Strum_HighVel, Velo	113	SIStrHVe
Slow_Strum_HighVel, Speed	114	SIStrHSp
Slow_Strum_on_low_velo, select	115	SIStrLow
Slow_Strum_LowVel, Velo	116	SIStrLVe
Slow_Strum_LowVel, Speed	117	SIStrLSp
<i>Mode Controls</i>		
Performance_Mode, select	54	Mode
Silent Mode, on/off	110	Silent
Chord Position, select	111	ChordPos
Chords/Bass, on/off	80	ChrdBass
Alter_Bass, on/off	118	ChdAltBs
Bass_Mono, on/off	119	ChdMnoBs
Chords_Strings, Upper, select	6	ChdStrU
Chords_Strings, Lower, select	3	ChdStrL
Bass&Chord_mode_Strings#, select	9	BnCStr#
Harmony_Mode_Interval, select	31	HrmlIntr1
Solo_FX_HammerOn, select	35	SolFxHO
Solo_FX_HammerOn, Steps	36	HOSSteps
Solo_Legato, on/off	18	Legato
Solo_BassZone, on/off	40	BassZone

Solo_BassZone, rangeHigh	41	BasRngUp
Solo_BassZone, rangeLow	44	BasRngDn
Slow Strum time zone (Pattern)	120	Slowzone
Pattern mode on/off	16	PatrnOn
Pattern, Track mode on/off	17	TrackMod
Song_Mode_Velo+	122	SongVelo

MIDI CC AUTOMATION, VALUE -> PARAMETER MAP

<i>CC#3, ChdStrL</i>	<i>CC#12, PtchCrse</i>	<i>CC#41, BassRang</i>
0-13 --> 1	0-2 --> -12	0-1 --> E1
13-38 --> 2	3-7 --> -11	2-5 --> F1
39-63 --> 3	8-13 --> -10	6-8 --> F#1
64-88 --> 4	14-18 --> -9	9-12 --> G1
89-114 --> 5	19-23 --> -8	13-15 --> G#1
115-127 --> 6	24-29 --> -7	16-19 --> A1
<i>CC#6, ChdStrU</i>	30-34 --> -6	20-22 --> A#1
0-13 --> 1	35-39 --> -5	23-26 --> B1
13-38 --> 2	40-44 --> -4	27-29 --> C2
39-63 --> 3	45-50 --> -3	30-33 --> C#2
64-88 --> 4	51-55 --> -2	34-37 --> D2
89-114 --> 5	56-60 --> -1	38-40 --> D#2
115-127 --> 6	61-66 --> 0	41-44 --> E2
<i>CC#9, BnCStr#</i>	67-71 --> 1	45-47 --> F2
0-21 --> 2	72-76 --> 2	48-51 --> F#2
22-63 --> 3	77-82 --> 3	52-54 --> G2
64-105 --> 4	83-87 --> 4	55-58 --> G#2
106-127 --> 5	88-92 --> 5	59-61 --> A2
<i>CC#31, HrmlIntrl</i>	93-97 --> 6	62-65 --> A#2
0-9 --> 4th down	98-103 --> 7	66-68 --> B2
10-27 --> 5th up	104-108 --> 8	69-72 --> C3
28-45 --> Octave	109-113 --> 9	73-75 --> C#3
46-63 --> Power1	114-119 --> 10	76-79 --> D3
64-81 --> Power2	120-124 --> 11	80-82 --> D#3
82-127 --> 2 Octave	125-127 --> 12	83-86 --> E3
<i>CC#36, HOSteps</i>	<i>CC#13, PtchFine</i>	87-89 --> F3
0-5 --> 1	64-127 --> 0-(+100c)	90-93 --> F#3
6-17 --> 2	64 --> 0	94-97 --> G3
18-28 --> 3	0-64 --> 0-(-100c)	98-100 --> G#3
29-40 --> 4	<i>CC#46, WahMode</i>	101-104 --> A3
41-51 --> 5	0-22 --> MidiCC	105-107 --> A#
52-63 --> 6	23-63 --> Auto(Pos)	108-111 --> B3
64-75 --> 7	64-86 --> Auto(Neg)	112-114 --> C4
76-86 --> 8	87-127 --> Modulation	115-118 --> C#4
87-98 --> 9	<i>CC#52, AltSmple</i>	119-121 --> D4
99-109 --> 10	0-15 --> 1	122-125 --> D#4
110-121 --> 11	16-47 --> 2	126-127 --> E4
122-127 --> 12	48-79 --> 3	
	80-111 --> 4	
	112-127 --> 5	
<i>CC#48, PBdnMode</i>	<i>CC#58, PBSldRng</i>	<i>CC#60, WhMode</i>
0-10 --> As up	0-5 --> 1	0-15 --> Off
11-31 --> Off	6-17 --> 2	16-47 --> Slide
32-52 --> Slide	18-28 --> 3	48-79 --> Pitch
53-74 --> Pitch	29-40 --> 4	80-111 --> Modulation
75-95 --> VeloAdd	41-51 --> 5	112-127 --> MonoBend

96-116 --> MonoBend	52-63 --> 6	CC#62, WhPtcRng
117-127 --> Sustainer	64-75 --> 7	0-4 --> 12
CC#50, PickPos	76-86 --> 8	5-13 --> 11
0-4 --> -7	87-98 --> 9	14-22 --> 10
5-13 --> -6	99-109 --> 10	23-31 --> 9
14-22 --> -5	110-121 --> 11	32-40 --> 8
23-31 --> -4	122-127 --> 12	41-49 --> 7
32-40 --> -3	CC#59, PBPtcRng	50-58 --> 6
41-49 --> -2	0-4 --> 12	59-68 --> 5
50-58 --> -1	5-13 --> 11	69-77 --> 4
59-68 --> 0	14-22 --> 10	78-86 --> 3
69-77 --> 1	23-31 --> 9	87-95 --> 2
78-86 --> 2	32-40 --> 8	96-104 --> 1
87-95 --> 3	41-49 --> 7	105-113 --> 1/2
96-104 --> 4	50-58 --> 6	114-122 --> 1/4
105-113 --> 5	59-68 --> 5	123-127 --> 1/8
114-122 --> 6	69-77 --> 4	CC#75, AtchMode
123-127 --> 7	78-86 --> 3	0-15 --> Off
CC#54, Mode	87-95 --> 2	16-47 --> Pitch
0-13 --> Solo	96-104 --> 1	48-79 --> Modulation
14-38 --> Harmony	105-113 --> 1/2	80-111 --> Sustainer
39-63 --> Chords	114-122 --> 1/4	112-127 --> Feedbacker
64-88 --> BassChord	123-127 --> 1/8	CC#76, AtchRng
89-115 --> BassPick	CC#61, WhSldRng	0-15 --> 2
116-127 --> Direct	0-5 --> 1	16-47 --> 1
CC#57, PBupMode	6-17 --> 2	48-79 --> 1/2
0-12 --> Off	18-28 --> 3	80-11 --> 1/4
13-38 --> Slide	29-40 --> 4	112-127 --> 1/8
39-63 --> Pitch	41-51 --> 5	CC#77, VelCurve
64-88 --> VeloAdd	52-63 --> 6	0-21 --> 1
89-114 --> MonoBend	64-75 --> 7	22-63 --> 2
115-127 --> Sustainer	76-86 --> 8	64-105 --> 3
CC#78, FretPos	87-98 --> 9	106-127 --> 4
0-3 --> 0	99-109 --> 10	CC#85, VelSlide
4-10 --> 1	110-121 --> 11	0-31 --> off
11-17 --> 2	122-127 --> 12	32-95 --> up
18-24 --> 3	CC#87, SldUpStp	96-127 --> down
25-31 --> 4	0-5 --> 1	CC#90, SldDnStp
32-38 --> 5	6-17 --> 2	0-5 --> 1
39-45 --> 6	18-28 --> 3	6-17 --> 2
46-52 --> 7	29-40 --> 4	18-28 --> 3
53-59 --> 8	41-51 --> 5	29-40 --> 4
60-67 --> 9	52-63 --> 6	41-51 --> 5
68-74 --> 10	64-75 --> 7	52-63 --> 6
		64-75 --> 7
		76-86 --> 8
		87-98 --> 9
		99-109 --> 10
		110-121 --> 11

75-81 --> 11	76-86 --> 8	122-127 --> 12
82-88 --> 12	87-98 --> 9	<i>CC#111, ChordPos</i>
89-95 --> 13	99-109 --> 10	0-15 --> I
96-102 --> 14	110-121 --> 11	16-47 --> II
103-109 --> 15	122-127 --> 12	48-79 --> III
110-116 --> 16		80-111 --> IV
117-123 --> 17		112-127 --> Kbrd
124-127 --> 18		

APPENDIX B. NRPN MAP

Format: (<NRPN MSB>, <NRPN LSB>, <Data Entry MSB>[, <DataEntry LSB>]) - <Description>. {<Comment>}

- (0, key, msb, lsb) - Set Pitch Bend for the key to ((msb<<7) | lsb)-8192.
- (1, key, fx) - Select FX for the key, sustain pedal or velocity of a stroke.
key - key id, see Key Map below.
fx-5 - fx id, see FX Map below.
- (2, key, on) - Switch the key fx.
key - key id, see Key Map below.
on - 0/1 for Off/On.
- (3, key, opt) - Set options of the key fx.
key - key id, see Key Map below.
opt - bit field: <toggle> | (<do sustain> << 1) | (<play stroke> << 2)
- (4, key, msb, lsb) - Set first parameter of the key fx if any, ignored otherwise.
key - key id, see Key Map below.
((msb<<7) | lsb)-8192 - value of the parameter 1.
For specific parameter ranges and meanings see FX Map below.
- (5, key, msb, lsb) - Set second parameter of the key fx if any, ignored otherwise.
key - key id, see Key Map below.
((msb<<7) | lsb)-8192 - value of the parameter 2.
For specific parameter ranges and meanings see FX Map below.

Key Map

Format: <key id> - <Description>. {<Comment>}

- 0 - Sustain Pedal. Available fxes -5..34.
- 1 - Upper velocity zone. Available fxes 0..34.
- 2 - Lower velocity zone. Available fxes 0..34.
- 3..18 - C0..D#1 Key switches. Available fxes -2..34.
- 19..35 - D#5..G6 Key Switches. Available fxes -2..34.
- 36 - Modulation. Available fxes -2..34.

FX Map

Format: <fx id>, <name> [, <par1 rng>[, <par2 rng>] - <parameters' names>

- 2, velo upper
- 1, velo lower
- 0, Tapping
- 1, Mute
- 2, BridgeMute, 0..128, 0..3 - ctrl val, velo sensitivity
- 3, Harmonics

4, PinchHarmonics		
5, Slap		
6, Scrapes		
7, HammerOn(Legato),	0..48	- range
8, Slide(Legato),	0..48, 30..150	- range, time
10, Repeat(NoteOff)		
11, ChuckaFull		
12, ChuckaMuteKeys		
13, Tremolo,	0..9	- duration id (see Duration Map)
14, Tremolo 1 beat,	0..9	- duration id (see Duration Map)
15, Trill,	1..12, 0..9	- interval, duration id (see Duration Map)
16, Trill 1 shot,	1..12, 0..9	- interval, duration id (see Duration Map)
17, SlideUp,	1..12, 40..500	- range, time (ms)
18, SlideUpTrig,	1..12, 40..500	- range, time (ms)
19, SlideDown,	1..12, 40..500	- range, time (ms)
20, SlideDownTrig,	1..12, 40..500	- range, time (ms)
21, Bend,	1..2, 100..800	- interval, time (ms)
22, ReverseBend,	1..2, 100..800	- interval, time (ms)
23, UnisonBend,	1..2, 100..800	- interval, time (ms)
25, Hold		
27, Sustainer(trigger)		
28, Violining,	300..2000	- time (ms)
29, Interval,	0..8	- interval id (see Interval Map)
30, FretPosition,	-1..20	- fret position id (see Fret Position Map)
31, PickPosition,	-7..+7	- pickup position
32, Wah-Wah,	0..3	- wah-wah mode id (see Wah-Wah Mode Map)
33, FeedBack(trigger),	0..5	- feedback interval id (see Feedback Interval Map)
34, ChuckaVeloLayer		
35, VeloMute	1..127	- velocity
36, Legato		
37, String	0..8	- 0..7 - string 1..8, 8 - auto
39, FretNoise		- Fret Noise

Duration Map

Format: <duration id>, <description>

0, 4th
1, 4T
2, 8th
3, 8T
4, 16th
5, 16T

6, 32nd
7, 32T
8, 64th
9, 64T

Interval Map

Format: <interval id>, <description>

0, mono
1, 4th down
2, 5th up
3, Octave
4, Power
5, Power2
6, 2 Octaves
7, Pwr Oct
8, Pwr 2 Oct

Fret Position Map

Format: <fret position id>, <description>

-1, D#5..C6
0, Open
1, Fret 1
2, Fret 2
3, Fret 3 *
4, Fret 4
5, Fret 5 *
6, Fret 6
7, Fret 7 *
8, Fret 8
9, Fret 9 *
10, Fret 10
11, Fret 11
12, Fret 12 **
13, Fret 13
14, Fret 14
15, Fret 15 *
16, Fret 16
17, Fret 17 *
18, Fret 18
19, Fret 19 *
20, Fret 20

Wah-Wah Mode Map

Format: <wah-wah mode id>, <description>

- 0, MIDI Control
- 1, Auto Positive
- 2, Auto Negative
- 3, Modulation

Feedback Interval Map

Format: <feedback interval id>, <description>

- 0, 8
- 1, 5'
- 2, 8'
- 3, 5"
- 4, 8"
- 5, 5'''

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