

Evolution Mandolin



User Guide

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Preface

Thank you for purchasing the Evolution Mandolin sample library! This acoustic mandolin sample library features 2.5 gigabytes (compressed to 1.05 GB using the lossless NCW audio format) of 24-bit samples, powered by KONTAKT's extensive scripting engine.

We developed this library in collaboration with Rosewood Recording Company, one of Utah's most venerable recording studios. Guy Randle, the owner and recording engineer at Rosewood Recording Company, incorporates a lot of analog audio equipment when recording, including a Neotek analog console, tube preamps, vintage compressors, and other classic analog gear.

For the sampling session, Guy Randle brought in the versatile multi-instrumentalist Ryan Tilby.

Known for his broad palette of sounds and styles, Ryan Tilby has performed at Telluride, Merlefest, FanFest, RockyGrass, and countless of other festivals throughout the United States, as well as having toured Europe multiple times. His music has been featured on Duck Dynasty, the Discovery Channel, and on Outdoor Photo Adventures. Ryan Tilby also offers remote recording services for clients around the world needing guitar, banjo, bass, mandolin, and ukulele tracks.

Achieving Realism

Emulating a mandolin is a complex task because there are so many articulations and techniques to cover when it comes to lead playing, strumming, or chordal picking patterns. In addition to the wide collection of sampled articulations, we also used Kontakt's scripting to make certain techniques more dynamic. For example, we used a combinations of samples and scripting to generate slides that can be played between notes at any speed. Similarly, rather than recording samples of strummed chords, we included a powerful strumming pattern system that generates realistic strummed chords from individual samples.

Many aspects are also physically modeled. This includes tonal modeling, incorporated in the pick position control, since the location of where the string is picked affects the timbre and attack of the mandolin's tone. We also used modeled the motion of the pick to capture



factors such as how the picking direction and string skipping changes pick noises. And speaking of pick noises, the strumming engine uses different pick noises because the strings are attacked in a different way when strumming.

Legato is an important element in mandolin playing, be it playing slides or simply fretting a different note without plucking it, achieving what are known as hammer-ons and pull-offs--the first being an upward legato interval and the latter referring to a downward interval.

Another important factor that we included is string resonance. Sometimes open strings or their harmonics will resonate with the currently ringing note. This resonance adds additional depth and nuance to the tone of the mandolin. Of course, as with many of the features in Evolution Mandolin, the string resonance is adjustable.

Lastly, Evolution Mandolin uses custom LFO shapes to produce authentic vibrato. The speed and depth of the vibrato are both adjustable, giving you a lot of options when it comes to fine tuning the vibrato to suit your mandolin performance.

What's Under the Hood?

At its core, Evolution Mandolin has over 4,300 samples, recorded in 24-bit at 44.1khz. You get three dynamics, downstroke and upstroke pick directions (when applicable), with 2 round robin each. Each string was recorded individually.

Evolution Mandolin comes with a robust effects engine. That way it isn't reliant on external effects plugins, although you have the option to bypass Evolution Mandolin's own effects to use your own plugins. The included effects include EQ, compressor, countless types of reverb, and much more. In total, you have a complete effects suite at your fingertips without external effect processors necessary to get amazing-sounding tones.

In terms of articulations, Evolution Mandolin includes sustains, palm mutes, mutes, natural harmonics, plus special effects such as string slaps, muted strums ("chucks"), and much more. We even sampled misfretted sustains that can be triggered randomly for added realism. There are also MIDI articulations for instant techniques such as grace notes, buzz trills, slides (velocity-based and tempo-synced), octaves, and powerchords.



All these articulations are available in our custom mapping system, which allows you to set how you want the different playing techniques to be triggered. For example, you can assign articulations to velocity ranges, MIDI CCs, or even custom latching and non-latching keyswitches. There's also a dynamic memory option--when enabled, unused articulations will be automatically unloaded from memory, keeping the library as efficient and compact memory-wise as possible.

By emphasizing realism and playability, we want playing Evolution Mandolin to give you the same excitement and inspiration as playing a real mandolin.

We at Orange Tree Samples are proud of the results, and hope you enjoy this extensively sampled mandolin library!



Installation

Step 1: Extract the ZIP File

The first thing you need to do after downloading the ZIP file from your account on the Orange Tree Samples website is to extract Evolution Mandolin. Both Windows and macOS can natively extract ZIP files without requiring other software. The entire library is self-contained within this ZIP file, so you can always move the folder afterward to relocate the library anywhere you like.

Step 2: Activate Through Native Access

After the library has been extracted, it needs to be activated using the Native Access application.

Run Native Access and log into your Native Instruments account, registering an account if necessary. Next, click the "Add a serial" button and enter your serial number for Evolution Mandolin, which can be found in your order confirmation email as well as in your account on the Orange Tree Samples website.

Afterward, click the "Locate" button next to Evolution Mandolin's listing in Native Access and then click the "Choose a location" button, which lets you browse to the library's folder. That way Native Access knows where you've installed the library. In this case, you'll need to select the main "Evolution Mandolin" folder.

Note: If you ever move the library's folder after it's been activated, you'll need to re-open Native Access to update its records about where the library's folder is located. Afterward, Native Access automatically relays this information to software like KONTAKT, Komplete Kontrol, and Maschine.

Step 3: Load in KONTAKT

Next, launch the KONTAKT plugin or standalone application. On the left side of KONTAKT's window, navigate to the "Libraries" tab, which lists all the KONTAKT Player li-



braries you own, and find the listing for Evolution Mandolin. After clicking on the "Instruments" button, double-click on the "Evolution Mandolin.nki" instrument.

After the instrument finishes loading, you're ready to play Evolution Mandolin!

KONTAKT Sample Library Organization

As your collection of KONTAKT libraries expands, it's important to keep them organized. For example, keep them all within a main "KONTAKT Sample Libraries" folder rather than scattered around your hard drive. Backing up the installation files for your sample libraries is also a good idea, although you'll always be able to re-download the library from your account on the Orange Tree Samples website if necessary.

The next step in organizing your sample libraries is in KONTAKT itself. One of the benefits of storing your sample libraries all in the same place is that it makes finding them faster when manually loading them. For KONTAKT Player instruments such as this one, the "Libraries" panel acts as a useful shortcut to access your libraries. However, bear in mind that this section is limited to KONTAKT Player libraries only.

Another convenient way to access your KONTAKT libraries is by adding them to the Quick Load panel. This allows you to create shortcuts to your libraries, sorted into any folder/subfolder arrangement you wish. The Quick Load panel can be quickly accessed with a single right-click in any empty area of the multi-rack (the large portion of KONTAKT's interface that displays the loaded instruments), or by clicking on the "Quickload" option available in KONTAKT's panel menu (the icon of three small rectangles in the top center of the interface). To load an instrument from the Quick Load panel, simply double-click on the patch you wish to load, or drag it into KONTAKT's multi-rack.



Evolution Engine

For detailed information about working with this instrument's interface and all its capabilities, please refer to the separate Evolution Engine documentation, available from the product download page or in the downloads area of your account.

Because all the Evolution instruments use the same interface and workflow, we opted for it to have its own documentation rather than repeating the information for each Evolution-based instrument. The additional documentation for the Evolution Engine goes into detail about every control and its usage, as well as containing helpful tips.



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Credits

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Production, scripting, graphics

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Engineering, mixing

Ryan Tilby

Mandolin performance

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Contact

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