

Vienna
Symphonic
Library

Vienna Instruments Pro

Manual

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Introduction

In 2010, we introduced many new features with the original Vienna Instruments PRO software, focusing on a new dimension in sample playback and creative sample manipulation.

Human Performance Control, Microtuning, Polyphonic Legato and Auto Voicing, to name just a few, were great additions to the powerful arsenal of sounds available with each *Vienna Instruments* Collection. This manual presents all new elements integrated in *Vienna Instruments PRO* on a technical level and is designed to be your reference guide in addition to the many video tutorials:



Watch the video

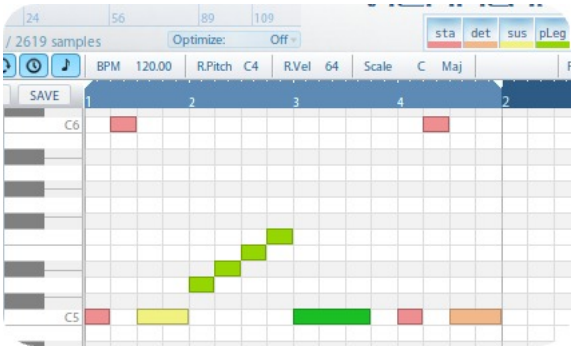
> **Tip**
>
> Check out the **VI PRO Remote App** that turns your tablet into a powerful MIDI command center! More details and setup instructions in the separate short manual in MyDownloads !

> **Tip**
>
> Take advantage of **MIRx**, the **Reverb Mixing Extension for Vienna Instruments PRO,** available as a separate product. We have positioned our instruments in the perfect sonic surrounding, making it easier than ever to get both balance and positioning of your virtual orchestra perfectly right!
>
> More details and setup instructions in the separate short manual in MyDownloads !

- VI Pro is now **retina-ready**, and you can switch between 100% and 200% scalings.



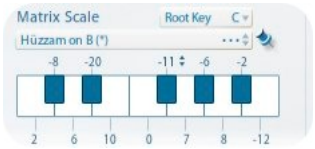
- The Auto Playback and Pattern Sequencer allows you to create vast libraries of orchestral patterns, sequences and arpeggios matched to matrices and articulations.



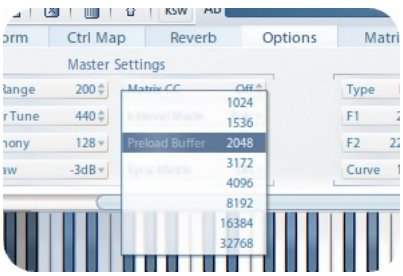
- Additionally, Herb Tucmandl has included a huge system of orchestral patterns and one-touch chords in correct voicings, plus sync'ed runs and phrases forall instrument groups.
- Enveloped Timestretching lets you freely manipulate the timing of each performed sample. Adjust the speed of a portamento or the attack of a staccato to expand the expressive possibilities of your Vienna Instruments collection.



- We have also added a Scale Editor which lets you create customized scales.



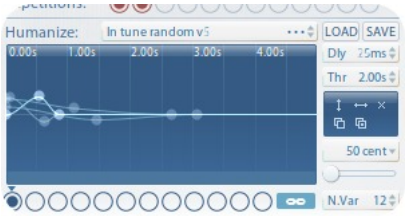
- With adjustable Preload Size, Vienna Instruments PRO now offers adjustable preload buffers, to take advantage of the access speed of modern SSD drives.Settings down to 1536 samples are possible, effectively **reducing the memory footprint and loading time up to 10 times**.



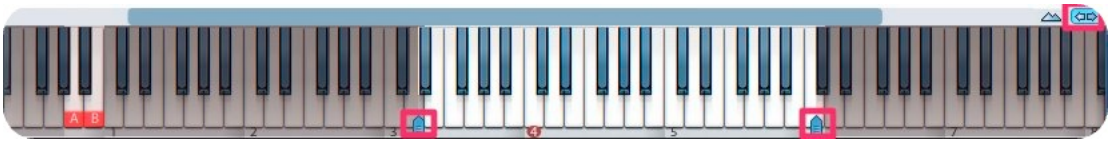
- A powerful new feature called **Disabled Cells** offers disabling and enabling cells of a matrix. When a cell is disabled, all its samples are cleared from memory, while settings are kept intact. This way you may load a matrix or preset containing all possible articulations while keeping memory footprint low. Simply enable the cells as you go, when you need the additional articulations.



- Auto-Humanization provides a matching humanization preset to every loaded patch.The humanization setting is chosen according to a scheme that provides the best possible match between different articulations and sections and is activated by default. The choice is of course still yours (deactivate the auto-humanization in the Settings menu).



- You can extend the range of each articulation up 2 whole tones (high and low) by simply grabbing the range handles of the virtual Keyboard in the Advanced View.



> **Tip**
>
> If you are not yet familiar with the concept of *Vienna Instruments*, we suggest starting with the original *Vienna Instruments* before upgrading to *Vienna Instruments PRO*. Find manuals and video tutorials for *Vienna Instruments*.

> **Tip**
>
> Additional features that were added over time (since 2012) are marked in these boxes.

With best wishes from Vienna,

– Your Vienna Symphonic Library Team

Installation

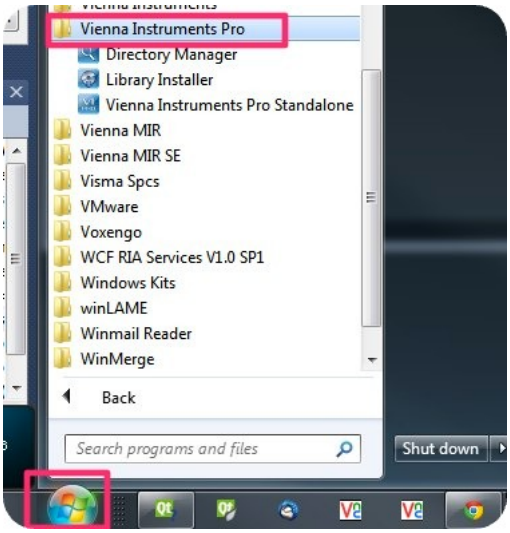
Installed Programs and Files

Vienna Instruments PRO comes with quite a few additional files that will be installed in the Programs/ Application Folder. *Vienna Instruments PRO Standalone* is explained later in this manual, the *Vienna Instruments PRO Uninstaller* on OS X can be used if you'd like to roll back to an earlier version, without the help of the Vienna Assistant.

OS X:



WIN:



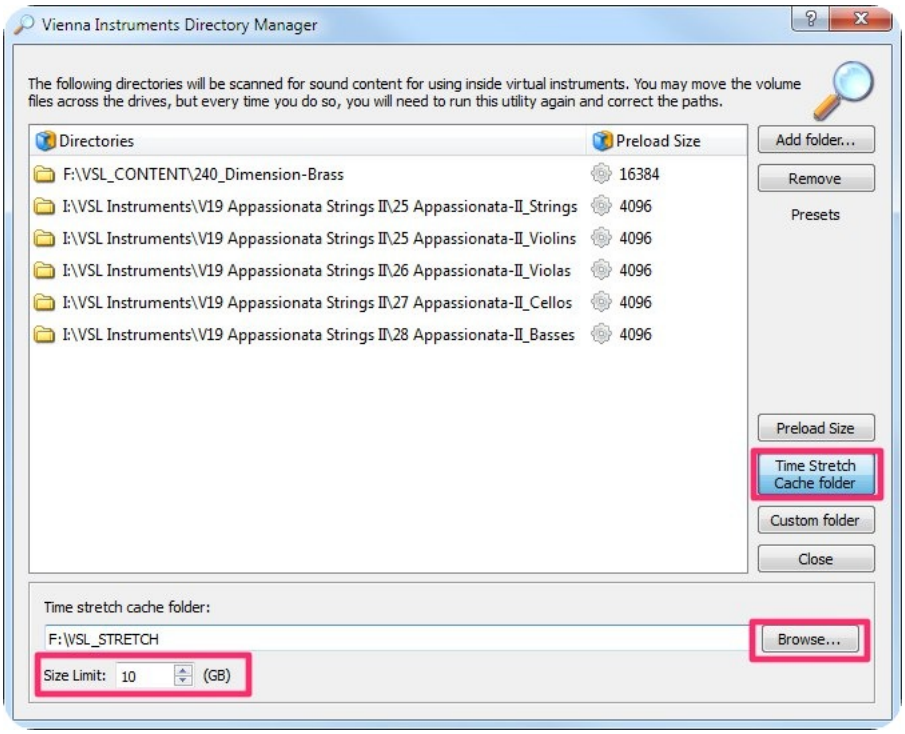
Directory Manager & Time-stretching

The *Vienna Instruments* software includes a utility called the **Vienna Instruments Directory Manager** which keeps track of the drives and folders your data is installed in, providing that information for *Vienna Instruments PRO*.

> **Important**
>
> The Vienna Directory Manager is synchronized with the current status in your **Vienna Assistant**.

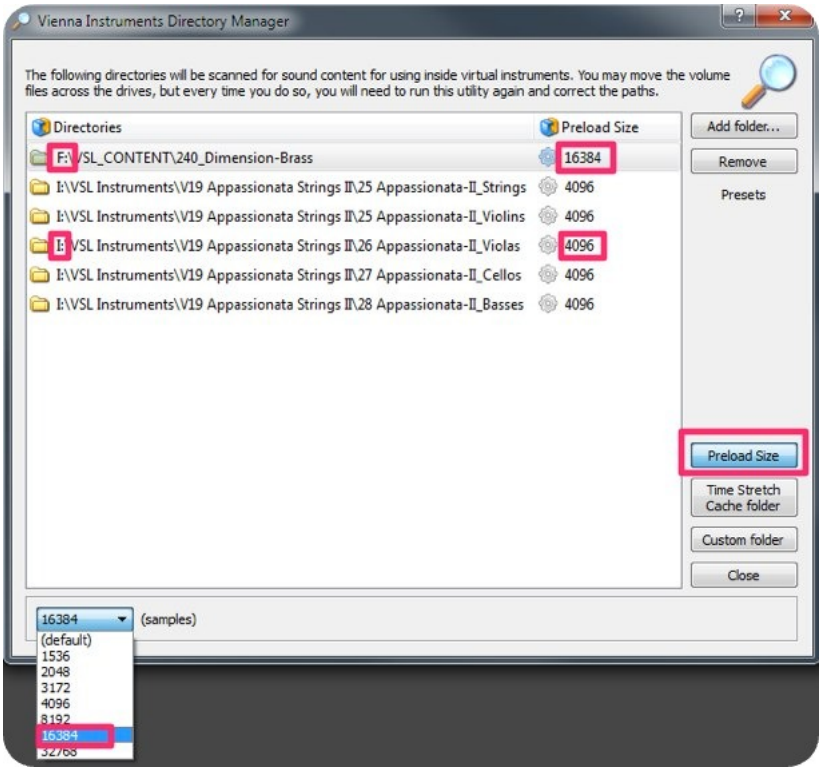
Your Sample Content is assigned automatically when you install a new *Vienna Instruments* Collection. You can look up the details on the **Directory Manager** in your *Vienna Instruments* Manual, here we will focus on the only new addition with *Vienna Instruments PRO*, which is the **Time Stretch Cache folder:** Define the location where your stretched samples will be stored. Staccato Patches will take less space, Performance Legato Patches with up to 1000 samples per patch will produce quite some additional data.

Set a **Size Limit** for your time stretch cache folder. If the stretch cache reaches the set limit, *Vienna Instruments PRO* will automatically clean up the disk space. If you are using Time Stretching a lot, make sure to have a high Size Limit (default: 100 GB). If possible, don't assign the Time Stretch Cache Folder to your system drive.



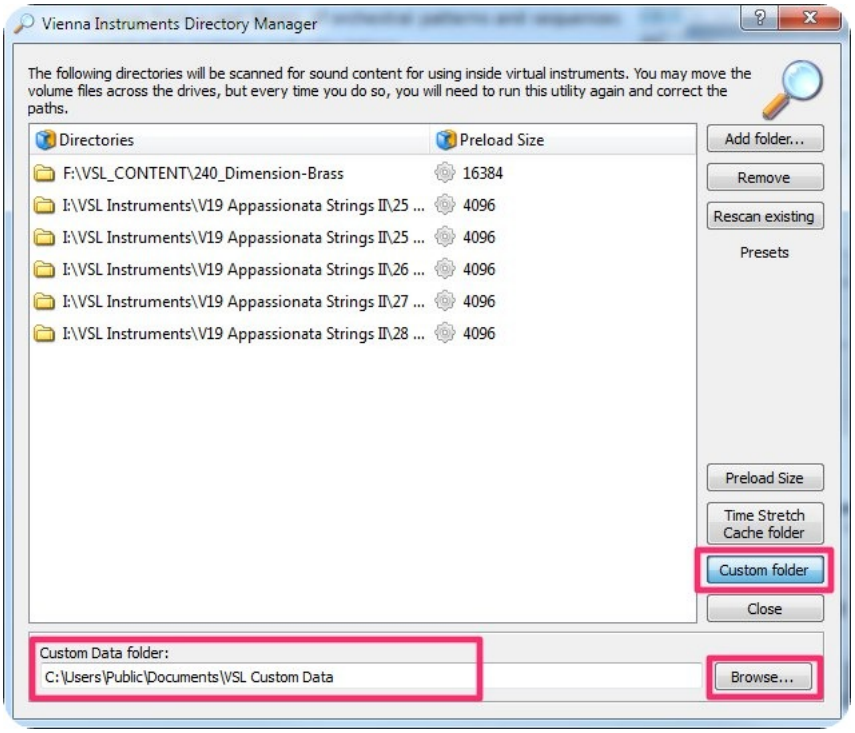
- **When using SSD drives** (in this case, drive "I"), you can set the **Preload Size** for the folders on this drive to a lower setting (default is 16384 Samples, which is good for conventional drives). You can select multiple folders at once.

> **Tip**
>
> Setting a lower preload size will allow you to load up to 10 times (!!) more samples while substantially lowering loading times.



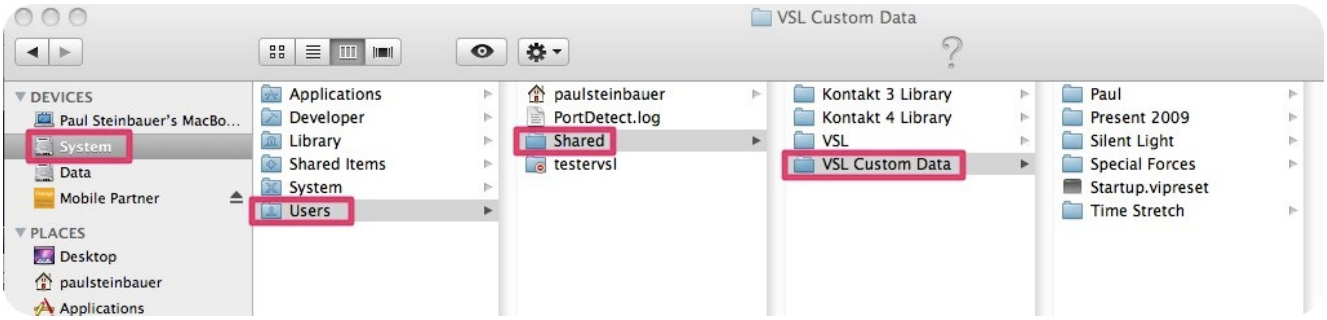
Cross-reference: As soon as you have assigned different **Preload Sizes** in the Directory Manager, you cannot set the Default Preload Size in the **Settings** Tab of Vienna Instruments PRO anymore!

The **Custom Data Folder** that contains all your customized presets and matrices can easily be assigned to a location of your choice:

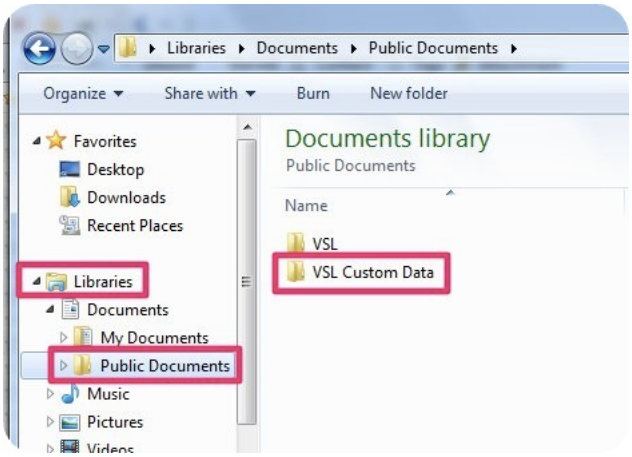


It is located in the following locations by default. This location will avoid any permission problems.

macOS:



Windows:__



System Requirements

Minimum

Windows 8.1 (latest update, 64-bit), Intel Core i3 or AMD Athlon 64 X2 **or**
OSX 10.13 (latest update), Intel Core i3

Sample Content:
7200 rpm hard drive for the sample content
8 GB RAM
iLok Account and iLok License Manager software for activation in the cloud or on a physical iLok 2/iLok 3 key

Recommended

Windows 10/11 (latest updates, 64-bit), Intel Core i5/i7/i9/Xeon **or**
macOS 11 (or higher), Intel Core i5/i7/i9/Xeon/M1/M2
SSD (M2, SATA 6 or USB3/3.1, UASP Support - HFS+, APFS or NTFS formatted)
16 GB RAM
AU/VST3/AAX Native compatible host
88 key master keyboard

Migrating from Vienna Instruments

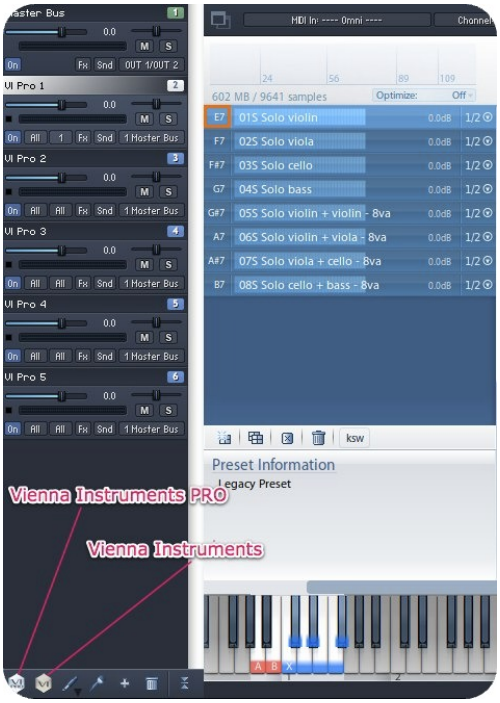
Loading Legacy Presets and Matrices

When you are loading any legacy presets from the original *Vienna Instruments*, all used controllers will automatically be assigned in the Real-time Controller Area (and therefore also in the Controller Map page). So you can go right ahead and tweak your presets! The **Basic View** of *Vienna Instruments PRO* will be a great substitute for the very first *Vienna Instruments* Interface, and you will like the fact that all controllers you assigned in your old presets show up immediately!

Opening old sequencer projects

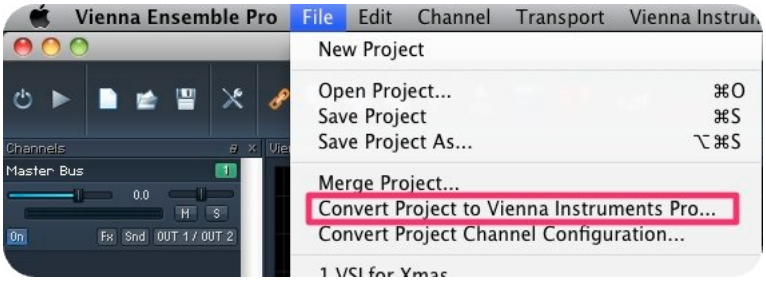
When you open any projects containing original *Vienna Instruments* instances, it's best to save the presets of all used instances as custom presets. This way you can easily open these presets in your new *Vienna Instruments PRO* instance. If you want to set your legatos to the "original" monophonic setting, please do so in the "Options" Tab (Interval Mode Mono/Poly).

Vienna Ensemble (PRO) and Vienna Instruments PRO

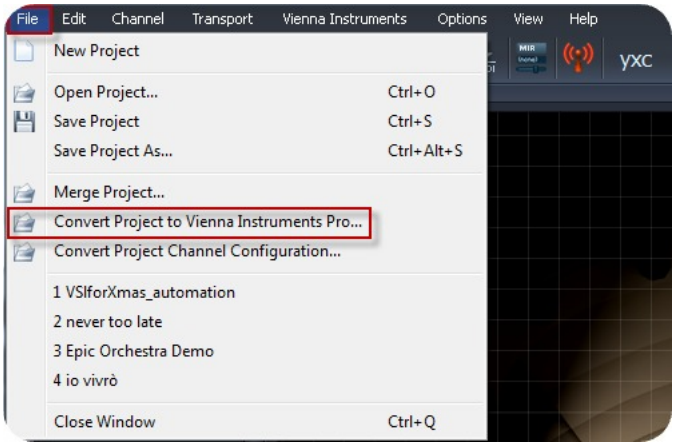


Vienna Instruments PRO is integrated into *Vienna Ensemble (PRO),* **as soon as it is installed** . It goes without saying tat all *Vienna Ensemble PRO* features such as Optimize and Master Tune also work with *Vienna Instruments PRO*. Once you have installed *Vienna Instruments PRO*, a **new icon for Vienna Instruments PRO** will be introduced below the channel list in *Vienna Ensemble (PRO)*. Click on this icon to generate a new instance of *Vienna Instruments PRO*.

OS X:



WIN:



> **Tip**
>
> *Vienna Ensemble (PRO)* lets you **convert your projects** (*.viframe files) from the original Vienna Instruments to *Vienna Instruments PRO* (see screenshot above) within *Vienna Ensemble (PRO)*. Of course your *Vienna Instruments PRO* license needs to be available.



- If you assign **multiple outputs** to a *Vienna Instruments PRO* instance within *Vienna Ensemble (PRO)*, you can create additional Input Channels in *Vienna Ensemble PRO* by clicking on the "+" button above the Output Button.In this case, I have assigned outputs 1+2, 3+4, 5+6, and 7+8 to different matrices within a channel called **VI PRO 1**.

VI PRO 1 shows three additional inputs that can be added and removed with the +/- buttons:

- **VI PRO 1 2:** Outputs 3+4
- **VI PRO 1 3:** Outputs 5+6
- **VI PRO 1 4:** Outputs 7+8

Basic Operations

Startup Preset



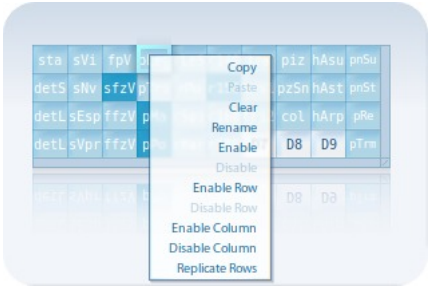
Take your time to find the right way to control all assignable parameters in *Vienna Instruments PRO*. There are many MIDI utilities that will make your musical performance more intuitive, from breath controllers over MIDI pedals to MIDI sliders and touch screen applications that generate MIDI CC data. Once you have found your perfect setup, you can save a preset called **Startup** in your Preset Browser. This preset will be opened as your default preset with every new instance of *Vienna Instruments PRO*.

Of course you can replace the Startup Preset anytime.

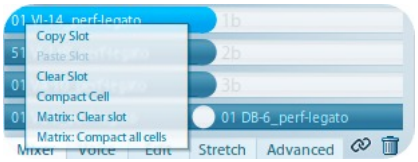
Context Menus

When creating your custom matrices and patches, you will use the context menus quite often!

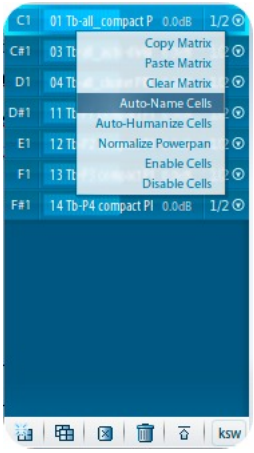
- A right-click on **Matrices**, **Cells** and **Slots** will show a context menu with some options.



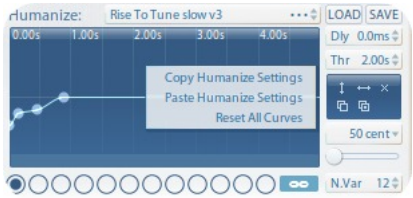
- **Copy and paste** offers an easy way to transfer all settings to other matrices, patches or slots, be it in the same instance of *Vienna Instruments PRO* or in another instance!

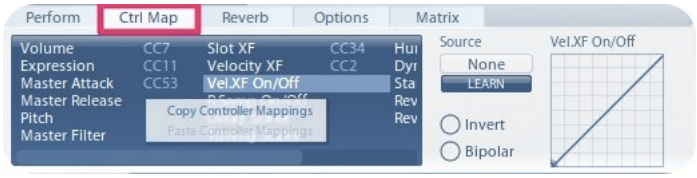


- Additional options will be described in the corresponding sections.

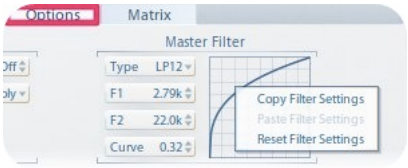


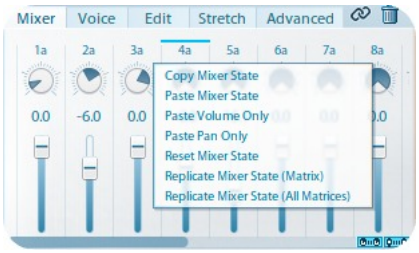
In the **Humanize Area**, right-click into the tuning curve window to copy, paste or clear all settings. The same applies to the **Controller Mappings**: Right-click anywhere in the **Controller Mappings** window in the **Advanved View** and copy/paste all mappings to another instance.





You can copy, paste and reset the master filter settings and the mixer parameters, with additional parameters (Volume only, Pan only, Reset Mixer State, Replicate Mixer State):





A right-click on the virtual keyboard of the Advanced View also lets you copy, paste and clear the **Keyboard Envelopes**, and you can copy and paste the **Range Settings**.



The **Realtime Controller Area** in the **Basic View** contains the same settings as the **Controller Map** page, and you can also copy/paste all mappings here.



Basic View



Watch the video

The **Basic View** displays all parameters you need when playing live. You already know most elements such as the Matrix List and the Matrix Control Bars from the original *Vienna Instruments* – but now they are conveniently placed on one screen! And to provide more flexibility for any resolution, you can **scale the interface** to 100% and 200% now. We'll take a closer look at the **Matrix List**, **Matrix View**, **Matrix Control** and the **Browser** in the **Advanced View** chapter on the next pages – the only difference is the appearance of these sections (the Matrix List and Matrix Control sections are simply bigger than the ones in the Advanced View). All widgets come with **Tool Tips**, so you get instant information when you hover over each widget with your mouse. **Eight assignable real-time controllers** let you customize your Presets, depending on the controllers you'd like to use, and you can save additional information together with the **Preset Information**, which is displayed instantly when you start to load a preset, as a help for your orientation.

Each selected Matrix and Cell can be easily identified by the bright frame around the Key Switch or cell.



Real-Time Controller Area

Eight Real-Time Sliders, freely assignable, show all the controls and parameters available in the Controller Map tab of the Advanced View, the successor of the rather well hidden "Map Control" page in the original *Vienna Instruments*.

Choose the parameter you want to control with each slider, then assign your preferred controller, either by "right-click and MIDI learn", or simply choose from the Controller List that appears when you click the Controller Assign button.

The idea of the Basic View is to keep things simple, so please take advantage of this offer – you don't need to assign all 8 sliders for every preset.



1. **Slider**:

- Drag to change value
- Right-click to enable MIDI-learn.
- Double-click to set default value.

2. **Controller Assign**: Click to select controller for chosen parameter

3. **Parameter Assign**:

- Shows all available real-time controllable parameters.
- Click-drag to select parameter to control from the current strip.

4. **Parameter On/Off**:

- Only shows when Velocity X-Fade or Reverb Wet are chosen as parameters.
- Click to turn parameter on/off.
- Right-click to enable MIDI-learn.

Current Patch Display

The **Current Patch Display** is placed right below the **Matrix Control** Window and shows the name of the Patch that's loaded in the first Slot of the current Matrix Cell.



The **Slot Rack** in the **Advanced View** is the more complex equivalent, which shows up to 16 slots for each cell.More about this later.

Basic View Virtual Keyboard



The Basic View Keyboard displays the range of all loaded patches, even stacked multi-instruments, as white keys. The keys of the virtual keyboard are touch-sensitive. When you move your mouse vertically over one key and click on different positions, you hear different velocities, depending on where you click.

Key Switches:

The **A/B** Key Switches are **red** (labeled "A, B"). Key Switches for **the Horizontal X-Axis** of the Matrix Control Bar are **blue** (labeled "X"). Key Switches for the **Vertical Y-Axis** of the Matrix Control Bar are **light green** (labeled"Y"). **Matrix Key Switches** are **purple** (labeled "1-12"). And **Scale Select Range Key Switches** are **dark green** (only available when the Scale Select Range in the APP Sequencer is activated, labeled "S").

This simplified view does not include the Volume Graph and Range Control available in the Advanced View.

> **Tip**
> In case two Key Switches are on the very same key, a striped diagonal pattern will be displayed on this key.

Advanced View

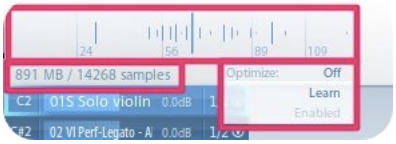


Watch the video

The Advanced View offers many new creative options. Take your time to explore these features with the help of our video tutorials and by studying this manual! This screenshot gives you a first overview. If you hover over any widgets, you'll see a tool-tip, providing you with a short description.

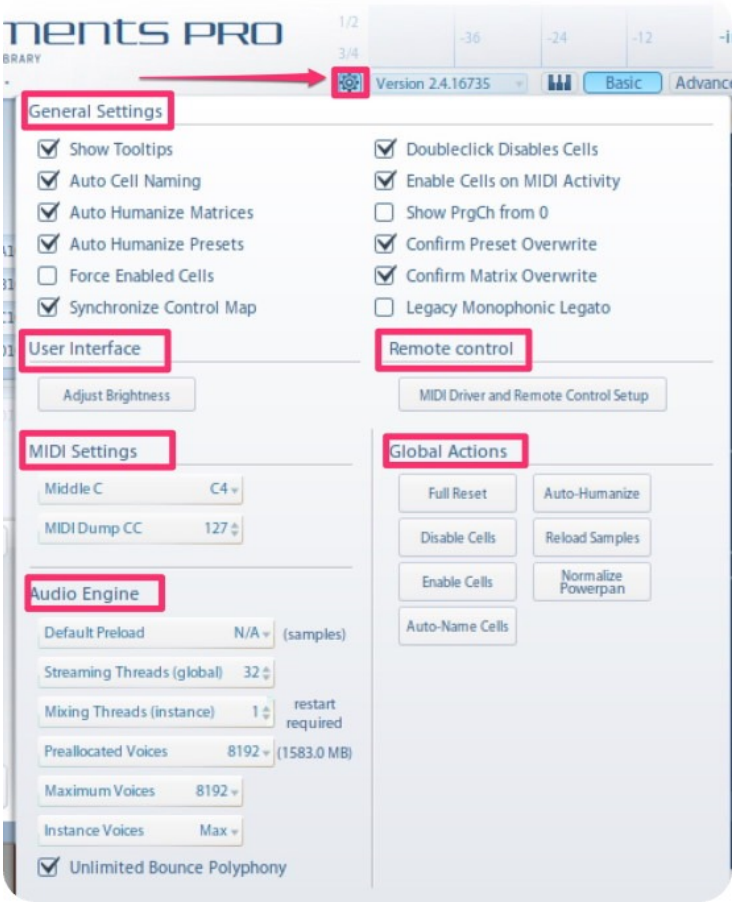


The **Velocity Histogram** in the upper left corner of *Vienna Instruments PRO* shows the received velocity of every key you play on your keyboard – a nice way to monitor your playing. 24, 56, 89 and 109 are the most common velocity split points of *Vienna Instruments* sample collections.



It is also a very helpful tool to find the right velocity curve for your master keyboard, as the visual feedback allows intuitive settings. Moreover, you can **freeze/unfreeze** the Velocity Histogram by double-clicking into the histogram display so that you can get a general image of your playing dynamics. The **RAM/Sample Display** shows the current RAM usage and total sample count of all samples you have loaded in all instances of *Vienna Instruments PRO*. **Optimize** will keep the used samples in RAM, all other samples will be discarded. To take advantage of this feature, activate "Learn" and play back your arrangement. "Off" will reload all samples in this instance. The **Output Volume** of each *Vienna Instruments PRO* instance is displayed by the **Output Meters** in the upper right corner. There are up to 4 stereo channels available for each instance of *Vienna Instruments PRO* , and additional stereo outputs will be added if more outputs are used (assignable in each Matrix Strip). If there are no additional outputs available (e.g., when working on your laptop without a soundcard), the output assignments are not lost, but routed to the available outputs. **Scale** lets you adjust the display size. You can choose between 100% and 200%.

Settings



General

1. **Show Tooltips**: Disables all mouse-over tooltips. ON by default.
2. **Auto Cell Naming**: Enables/Disables automatic cell-naming when loading presets, matrices and patches. ON by default.
3. **Auto Humanize Matrices**: Enables/Disables loading of a matched humanize preset when loading matrices and patches. ON by default.
4. **Auto Humanize Presets**: Enables/Disables loading of a matched humanize preset when loading presets. ON by default.
5. **Force Enabled Cells**: Loads all cells enabled, when a preset or matrix was saved with disabled cells. OFF by default.
6. **Synchronize Control Map**: When enabled, all Controller Mappings and the Real-Time Controller Area of all Vienna Instruments instances system-wirde are synchronized whenever a parameter is changed.
7. **Double-click Disables Cells**: When disabled, cells can only be disabled via the context menus. ON by default.
8. **Enable Cells on MIDI Activity**: When enabled, disabled cells will load in the background when triggered by MIDI Notes. Default: Disabled

9. **Show PrgCh from 0**: When enabled, Program Changes start at "0". Disabled, they start at "1". OFF by default.
10. **Confirm Preset Overwrite**: Confirmation Question before overwriting Preset. ON by default.
11. **Confirm Matrix Overwrite**: Confirmation Question before overwriting Matrix. ON by default.
12. **Legacy Monophonic Legato**: When enabled, all Legacy Presets will load with monophonic legato enabled. OFF by default.

User Interface

Adjust Brightness: Adjust the brightness of Vienna Instruments PRO with this little application.
Play around with the sliders to find the right settings for your screen, you can always go back to the default settings (Reset). The new settings will be applied after the host is restarted.

Remote control

MIDI Driver and RC Setup: Essential settings to use our VI PRO Remote Control App.

MIDI Settings

1. **Middle C**: Define C3, C4 or C5 as middle C. Default: C4
2. **MIDI Dump CC**: Choose a MIDI CC to trigger a MIDI Dump. Default: Off

Audio Engine

1. **Default Preload**:

- Allows to change the preload (precache) size in number of samples.
- For normal HDD a minimum size of 16384 is recommended, while a fast SSD drive can use lower settings.
- Using the "start-offset" setting will eat into the preload, thus a higher preload might be needed when adjusting start offset.
- Directory Manager offers the possibility to set different preload settings for different disks and/or directories.
- When Directory Manager settings are applied, this control will be disabled.

2. **Streaming Threads**: The number of threads devoted to sample streaming. The default value (4) is appropriate in most cases. Systems with more than one harddrive or SSD drives for sample streaming could benefit from setting a higher value. Streaming Threads define the number of simultaneous reads from the drive.
3. **Mixing Threads (instance)**: The number of threads devoted to streaming PER INSTANCE. The default value (4) is appropriate in most cases, the threads are split per slots. Systems with more than one

harddrive or SSD drives for sample streaming could benefit from setting a higher value. Too many used instances might result in crackling, in which case you should reduce the number.

4. **Preallocated Voices**: The number of voices allocated by the first instance of VI PRO. When more voices are required from the playback, additional voices will be allocated dynamically up to Maximum Voices.
5. **Maximum Voices**: The maximum amount of voices possible to playback. When this limit is reached, voice stealing will occur, and notes can start dropping out.
6. **Instance Voices**:

- A limit for the maximum number of voices allowed per VI PRO instance. Setting this to a lower value than Maximum Voices allows for voice stealing to first occur within the single instance.
- This can be useful for polyphonic instruments with long sustain, for example, piano or harp, since these might otherwise start stealing voices from more crucial instruments using less voices, such as a solo violin.

7. **Unlimited Bounce Polyphony**: Checking this box will allow an unlimited number of voices to be played back on bounce. Memory will be allocated dynamically during bouncing to accommodate the extra voices.

Global Actions

1. **Full Reset**: Resets the entire instrument to startup state.
2. **Disable All Cells**: Disables all cells of an instance (un-loads all samples).
3. **Enable All Cells**: Enables all cells of an instance (loads all samples).
4. **Auto-Name Cells**: Applies Auto-Naming to all cells of the instance
5. **Auto Humanize**: Applies Auto-Humanize to all cells of the instance
6. **Reload Samples**: Reloads all samples of an instance (can be useful for debugging WIN or OS X memory handling).
7. **Normalize Powerpan**: Scales powerpan settings for the entire instrument. Resulting powerpan settings will be spread over the entire stereo panorama.

About streaming threads and mixing threads

Streaming threads are a global setting and the default value (4) will be the sweet spot for most computers.If you experience streaming dropouts, you can increase this value on a powerful computer.

Streaming dropouts sound different from CPU dropouts and can be distinguished like this: when voices shot down with a "plopping" sound, you are experiencing Streaming drop-outs and you should increase the streaming threads. SSD drives will help tremendously in this situation.

When voices drop out with a digital crackle, it is a CPU dropout and you should increase the latency of your soundcard to compensate for the CPU demands.

Mixing threads is a new setting that was added specifically for Synchron Strings. It is applied **per instance** / system-wide. By default, Vienna Instruments was working with 1 mixing thread until now, meaning that sequential processing of all slots contained in a cell was applied.If you are using multiple slots in Vienna Instruments, like with the ROOM-MIX presets for Synchron Strings, a setting of 2 will be helpful and cut processing time for these presets in half. If you are working with Vienna Instruments PRO for all other sounds, it might help to load the Synchron Strings Presets in the regular Vienna Instruments instances, with a mixing threads setting of 2, and leave your VI PRO Settings as they are, for best performance.

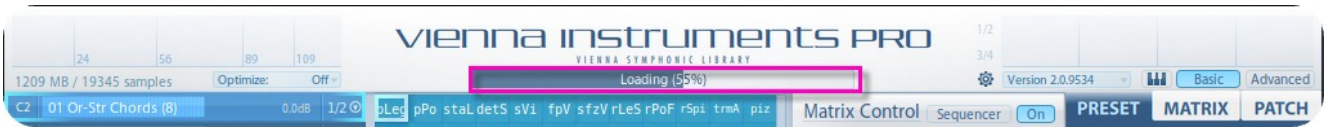


- **Show Licenses**: Displays a list of available licenses
- **About Software**: Displays information about VI Pro
- **Product Web-Site**: Takes you to the VI Pro website

You can also change between **Sequencer, Basic View**, **Advanced View.** Clicking on Basic View / Advanced View below the *Vienna Instruments PRO* logo also changes between Basic / Advanced View.



The **Load Progress Bar** below the *Vienna Instruments PRO* logo shows when wave loading is in progress. The loading progress will be shown in all instances of *Vienna Instruments PRO*, since wave loading is done globally for all instances. The loading progress does not lock up *Vienna Instruments PRO*, and you can even play the already loaded samples, while loading is still active.



Matrix List / Matrix View



Watch the video



One Preset can consist of up to 127 Matrices that can be accessed by Key Switches, program changes. The Matrix View displays the currently selected Matrix and can contain up to 12x12 Cells.

1. **Matrix Strip**:

- Set current matrix by clicking on a matrix strip.
- Drag & drop strip into matrix list to reorder.
- To load a strip from a saved matrix, drag matrix from browser onto strip.
- Double-click matrix in browser to replace current matrix.

2. **Key Switch**:

- Click-drag to set value.
- Double-click to edit, enter to accept.
- Right-click to enable MIDI-learn.
- Right-click several boxes to enable consecutive MIDI-learn.

3. **Matrix Name**: Double-Click to edit Matrix name.
4. **Strip volume**:

- Click-drag to adjust value.
- Double-click to edit, enter to accept.

5. **Output**: Click to select matrix output assignment.
6. **Add**: Adds a new matrix at the end of the list.
7. **Copy**: Copies current matrix and inserts it after current matrix.
8. **Clear**: Clears all settings from current matrix
9. **Delete**:

- Deletes current matrix.
- If only one matrix remains, deleting this will result in clearing (minimum of one matrix must exist).

10. **Auto-Scroll**: Automatically scrolls matrix list to currently active matrix.
11. **KeySw/PrgCh**: Toggles display of Program Change number or Key Switch assignment.
12. **MIDI Dump (also see ADVANCED View, centered below Matrix**: Click MIDI DUMP and the current **Matrix Selection, Cell Position, A/B Position, Sequencer Root Key** of the selected Vienna Instruments PRO Interface will be dumped to the record-enabled track in your sequencer as MIDI information.



12. **Copy Matrix**: Copies selected matrix.
13. **Paste Matrix**: Pastes a copied matrix to current.
14. **Clear Matrix**: Clears selected Matrix
15. **Auto-Name Cells**: Tries to automatically name all cells and slots of a matrix according to defaults

16. **Auto-Humanize Cells**: Automatically assigns default humanization presets to all cells/slots of matrix.
17. **Normalize Powerpan**: Scales powerpan settings for entire matrix. Resulting powerpan settings will be spread.
18. **Enable Cells**: Enables all cells of matrix (loads all samples).
19. **Disable Cells**: Disables all cells of matrix (unloads all samples).
20. **Matrix View**:

- Resize matrix by dragging borders or corners.
- Resize operation that would cause loaded cells to be deleted produces verification dialog.
- Dragging & dropping a matrix from browser onto matrix area will replace current matrix with the dragged one.
- Drag & drop a patch from browser onto cell to load into Slot 1a.
- Drag & drop a patch from browser into cell while pressing keys 1-8 will load patch in slot marked by numbers on GUI (displayed in Advanced View).
- When in sequence mode, and sequences have been assigned a dedicated name, these names will be shown to the left of matrix.

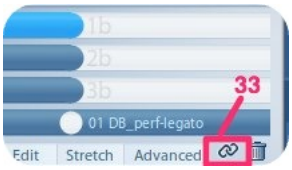
21. **Matrix Cell**:

- Ctrl-drag or Shift-drag cell to another cell to copy.
- Alt-drag cell to another cell to switch cells.
- Double-click on a cell toggles enable/disable. Cell will display red if it contains patches which could not be found.



22. **Copy**: Copies selected cell.
23. **Paste**: Pastes a selected cell to current.
24. **Clear**: Clears selected cell.
25. **Rename**: Sets a custom name for cell.
26. **Enable**: Enables the selected cell
27. **Disable**: Disables the selected cell

28. **Enable Row**: Enables the row of the selected cell
29. **Disable Row**: Disables the row of the selected cell
30. **Enable Column**: Enables the column of the selected cell
31. **Disable Column**: Disables the column of the selected cell
32. **Replicate Rows**: Replicates the first row of cells to all other rows

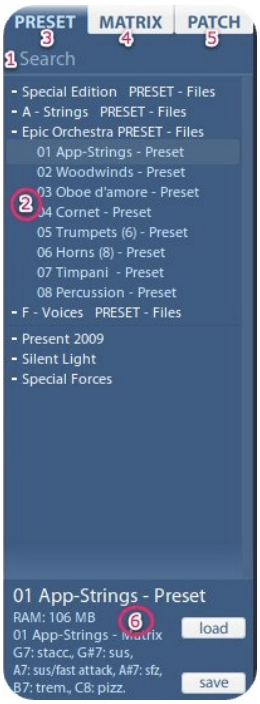


33. **Patch Link (also see "Slot Rack")**: Activating the Patch Link will link editing of all slot parameters with the identical patch name. Similarly, replacing a patch when "Patch Link" is activated, and also will replace the patch in all occurences throughout the instrument.

File Browser

The *Vienna Instruments PRO* File Browser comes with a great Search Engine and provides a quick overview. Choose between **Preset, Matrix and Patch** view.

> **Tip**
>
> If you accidentally loaded the wrong file, simply interrupt the loading process by loading a different, smaller patch, matrix or preset (it has to be the same file format)!



1. **Search**:

- Search for presets, matrices, or patches by clicking the search box and typing.
- Search results will appear in real-time.
- Search will look in folder names and preset/matrix/patch names.

2. **Browser**:

- Click-drag anywhere vertically to "drag" list for iPhone-type scrolling.
- Click-drag scrollbar to scroll list normally.
- Use mouse-wheel to scroll.

3. **Browser [Preset]**:

- Drag & drop preset into main area to load.
- Double-click preset to load.
- Currently loaded preset displays in green color.
- Press "save" to save current preset, edit name if you wish to save to new preset.
- Press load to load selected preset.
- Press delete to delete selected preset.
- Factory presets may not be deleted.
- Hold down `Alt` while dropping/double-clicking will load presets with all cells disabled.

4. **Browser [Matrix]**:

- Drag & drop matrix into matrix slot or matrix area to load.
- Double-click matrix to replace the matrix in the selected matrix strip.
- Press "save" to save current matrix, edit name if you wish to save to new matrix.
- Press load to load selected matrix.
- Press delete to delete selected matrix.
- Factory matrices may not be deleted.
- Hold down `Alt` while dropping/double-clicking will load matrix with all cells disabled.

5. **Browser [Patch]**:

- Drag & drop patches into cell or slots to load.
- Holding keys `1-8` while dropping patch into cell will load correspondingly marked slot. This is displayed in the Advanced View.

6. **Information Window**:

- Displays the saved information of the respective preset, matrix or patch.
- Load/Save/Delete Buttons. Only customized files can be deleted.

Matrix Control Bars

The Matrix Control Bars let you decide how to move through the matrix. There are many controllers available to switch between different Matrix Cells that contain up to 8 slots (which in turn contain patches = articulations). The best way to learn more about these controllers is to watch the Video Tutorials of both the original *Vienna Instruments* and *Vienna Instruments PRO*.

Overview:



X-Axis Controllers:



Y-Axis Controllers:



1. **Sequencer**: Switches to sequencer view

2. **Sequencer On/Off**: Toggles sequencer mode on/off
3. **Control menu**: Sets controller type for corresponding axis / AB control.
4. **Control Bar (X-Axis)**: Shows different controls depending on control menu setting.
5. **Control Bar (Y-Axis)**: Shows different controls depending on control menu setting.
6. **Control Bar (AB)**: Shows different controls depending on control menu setting.
7. **Control Change**:

- Corresponding control bar will show range controls for the selected Control Change number.
- Click & drag a range handle to adjust its value.

8. **Key Switch**:

- Control bar shows the active Key Switches.
- Click-drag to change all subsequent Key Switches.
- Click-drag with Alt key to only change current Key Switch value.
- Double-click to edit, enter to accept.

9. **Pitch Wheel**:

- Use MIDI pitch wheel for controlling axis.
- Control bar shows range controls.

10. **Speed**:

- Uses playing speed for controlling axis.
- Control bar shows range controls.

11. **Velocity**:

- Use MIDI note-on velocity for controlling axis.
- Control bar shows range controls.

12. **Key Switch Velocity**:



Watch the video

- Only available if opposite axis is set to Key Switch.
- Uses velocity of corresponding Key Switch to control axis.
- Control bar shows range controls.

13. **Interval Map**:



Watch the video

- Uses note interval direction to control axis.
- Intervals mapped on matrix as 0, 1, -1 (same note, upwards, downwards)
- Control bar shows Reset Threshold control.
- Adjust reset threshold to set time after note-off, when matrix should return to first cell (interval 0).
- Maximum of cells: 3

14. **Sequence Map**:



Watch the video

- Uses play sequence to control axis.
- In a matrix that contains empty cells, sequence will skip the unloaded slots and continue to next loaded slot.
- Control Bar shows chord and reset threshold controls.
- Adjust Chord threshold to enable chord playing, triggering only one sequence step.
- Adjust high threshold to set time after note-off, when matrix should return to first cell.

15. **Keyswitch Range**:

- Instead of a simple Keyswitch, you can assign a range of keys which will correspond with a row in the Y-Axis
- So instead of setting C0,D0,E0 for Keyswitches, you can set for instance C0-B0, C1-B1, C2-B2, thus assigning different articulations to different key ranges

> **Tip**
> Combine the Keyswitch Range with the APP sequencer in Drum mode for creating drum grooves, or combining with slot transpose features for building up a playable setup with different articulations spread over the keyboard.

16. **Voice Split**:

- Only available if sequencer mode is activated.
- Available in Y-Axis only.
- Splits played notes to first "free" sequence.
- Auto Voicing is not available when using Voice Split.

APP Sequencer

The Auto Playback and Pattern Sequencer introduced in Vienna Instruments PRO 2 opens up a new playground with many unique features: Color coded articulation display, musical phrases that stay in their harmonic environment, rhythmic patterns and advanced arpeggios, it's all there – and of course you are sync'ed to your host tempo, if you like!



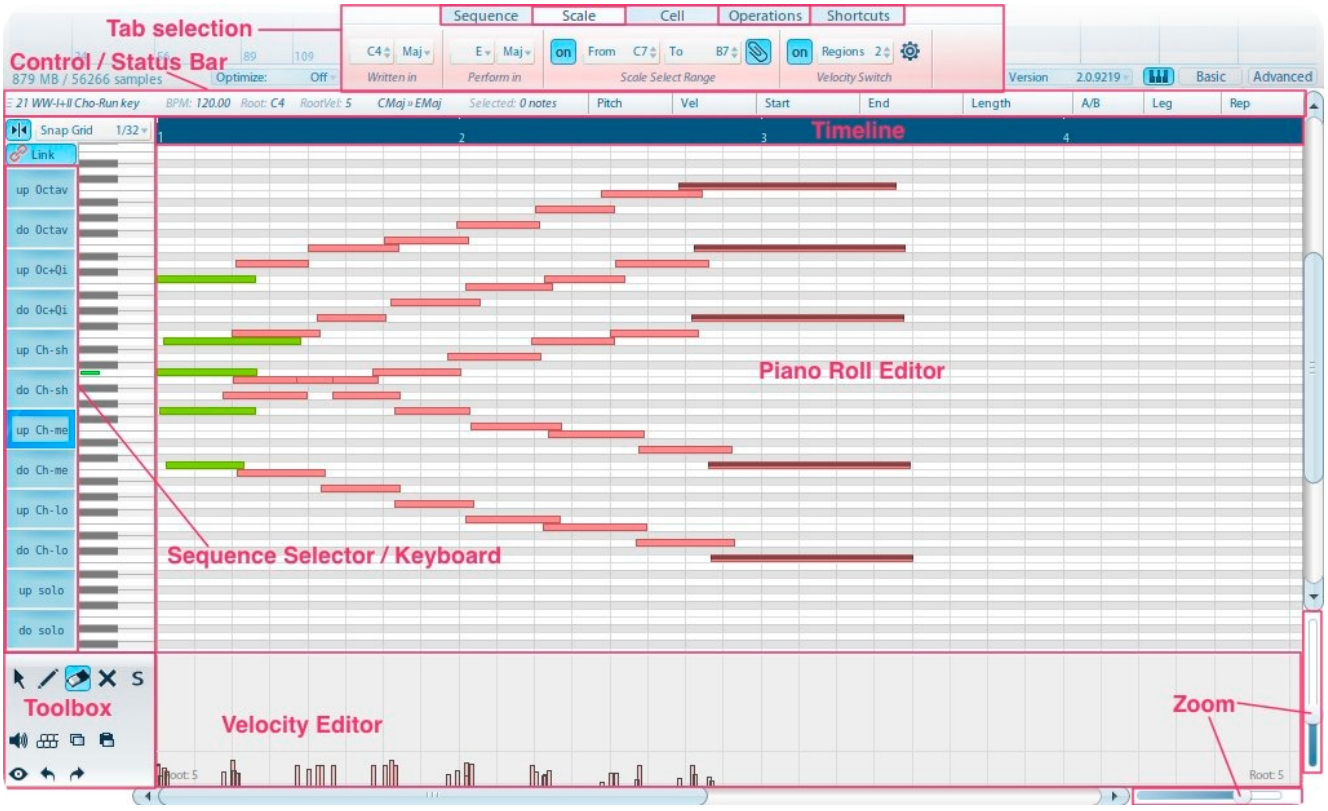
Watch the video

To **activate the Sequencer**, click "On" right next to the Sequencer button in the Matrix Control section. The **sequence names** will show up in the Y-Axis of the Matrix View (see below). You can rename those in the Sequencer View later on. To **switch to the Sequencer View**, click **Sequencer** in the Matrix Control section

or click the Sequencer icon to the left of the Basic/Advanced View, as shown below.



A **Piano Roll Editor**, as found in any sequencer, will appear, displaying the selected sequence.



> **Tip**
>
> You may now load a Matrix and keep the sequence of the current Matrix intact by pressing SHIFT while dragging the Matrix into the Matrix list.Merge Sequences by holding SHIFT when pressing import/load.

Sequence Toolbox



1. **Arrow**: Enables "normal" selection mode.
2. **Pen**: Enables drawing mode for note creation. Holding down Alt key while clicking in the sequence editor also enables drawing mode.

3. **Eraser**: Enables erase mode for deleting notes.
4. **Mute**: Enables mute mode for muting/unmuting notes.
5. **Solo**: Enables Solo mode for soloing notes.
6. **Speaker**: Speaker mode will automatically playback selected notes and keypresses on the sequencer keyboard.
7. **Keyboard**: Activating keyboard mode will allow plugin to grab keyboard input, so keyboard shortcuts can be used.
8. **Copy**: Copy selected note(s) to clipboard.
9. **Paste**: Paste selected note(s) from clipboard.
   When pasting, a marker will occur which allows to select place for pasting.
10. **Visibility**: Pressing the visibility button will hide all non-selected notes in a sequence.
    A second press on visibility when already activated, will return sequence to full visibility.
11. **Undo**: Undo last note operation.
12. **Redo**: Redo last undone note operation.

Velocity Editor



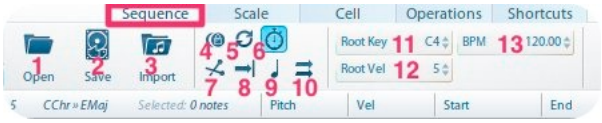
1. **Draw**:

- Drawing with mouse in the velocity editor will apply desired velocities to the selected note(s).
- If no notes are selected, all notes in sequence will be edited.
- Shift-draw will apply a uniform value to all notes.
- Alt-draw will allow for a line to be defined, that will apply a smooth transition of velocity values to selected note(s).

2. **Display**:

- Red bars represent note velocity. Taller bars (with darker red color) represent higher velocities.
- A line representing the root velocity is drawn.
- Sequence root velocity is displayed to the left.

Sequence Tab



1. **Open**: Click to open a sequence file `*.viseq`
2. **Save**: Click to save current sequence to file `*.viseq`
3. **Import**: Click to import midi file to current sequence.
4. **Clone**:

- Activate clone mode for selected sequence.
- Clicking this button on the master (first) sequence, will toggle cloning on/off for all slave sequences (2-8).
- A cloned sequence can be identified by the "lock" icon next to the sequence name.

> **Tip**
> Interesting: If a different starting note is already available in one of the sequences when auto-cloning, the sequence from seq1 will be transposed...

5. **Loop**:

- Toggle looping on/off for sequence.
- When looping is on, PlayToEnd option will be disabled.

6. **Host Tempo Sync**:

- Locks sequence tempo to host clock.
- With this option enabled, Sequence BPM setting will be disabled.

7. **Drum Mode**:

- Makes sequence always trigger at root key (no matter which key is triggered).
- Useful for percussion or drum sequences (loops).

8. **Play To End**:

- Makes sequence always play to its end, even when trigger key is released during playback.
- When "PlayToEnd" is active, looping will be disabled.

9. **Sync To Host Beat**: Makes sequence always trigger on a host beat.

10. **Polyphonic Sync**: Synchronizes playback pointer of individually triggered sequences.

11. **Root Key**:

- Sets the root key for sequence.
- If sequence is triggered at root key, sequence will play back untransposed.

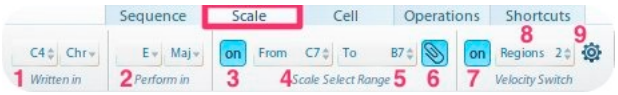
12. **Root Vel**:

- Sets the root velocity for sequence.
- A sequence triggered at root velocity, all notes of the sequence will play back with velocities as written.

13. **BPM**:

- Sets the sequence tempo.
- When the "Host Tempo Sync" button is activated, this setting will be disabled.

Scale Tab



1. **Written in**:

- Describes the root key and scale type for sequence.
- If your sequence was written in E major, VI PRO now knows which notes you have used.
- Root key setting is mirrored on Sequence Tab.
- All factory presets and matrices with sequences were written in C major.

2. **Perform in**:

- Sets the key and scale of sequence playback.
- While your sequence was, e.g., written in E major, you can now pick ANY other scale you want to actually play on your keyboard. Your sequence will be transposed accordingly. Remember that the notes you trigger should be within the scale you selected as the performance scale (e.g., B minor).
- Sequencer will intelligently transpose the written notes to the chosen key/scale.

3. **Scale Select Range: on/off**:

- Turns on/off Scale Select Range feature.
- Feature allows for a range of keys to control which key the "perform scale" will be in.

4. **Scale Select Range: From**:

- Sets start of scale select key range.
- The note assignment is not transposed. A "C" will always trigger a scale in "C", a "D" will always trigger a scale in "D", no matter which range was defined in the Scale Select Range.

5. **Scale Select Range: To**:

- Sets end of scale select key range.

6. **Scale Select Range: Sync Scale Settings**:

- Links scale range settings for an entire matrix.

7. **Velocity Switch: on/off**:

- Enables velocity-dependent switching of scale type.

8. **Velocity Switch: Regions**:

- Sets number of active velocity switch regions for scale type selection by click-dragging the mouse over the displayed number.
- If you are using "just" 2 scale types (e.g., major and minor harmonic), you will only need 2 regions.

9. **Velocity Switch: Settings**:

- Shows the "Velocity Range Setup" settings.
- Use the From/To fields to set the velocity range to trigger a certain scale on the keys in the Scale Select Range (see above).
- Use the third field to set the scale type to be triggered by the defined range.
- By default (---), range will not trigger any change in scale type.

Cell Tab



1. **Auto-X**:

- Applies the selected X-axis a to selected notes. When playing back a sequence with notes set to default (light blue), these notes will playback the articulations based on the X-Axis controller position.

2. **Cell Row**:

- Applies chosen cell to selected notes.
- Right click to apply default cell (same as choosing Auto-X cell).

3. **Slot Mask**:

- Assigns specific slot to selected note(s).
- Dark blue means slot will be triggered, white means not triggered.
- Alt-click on a slot to assign only this slot to selected note(s).
- Shift-click on a slot to select all notes which have this slot assigned.
- Ctrl-click on a slot to reset slot mask and assign all slots to selected note(s).

Operations Tab

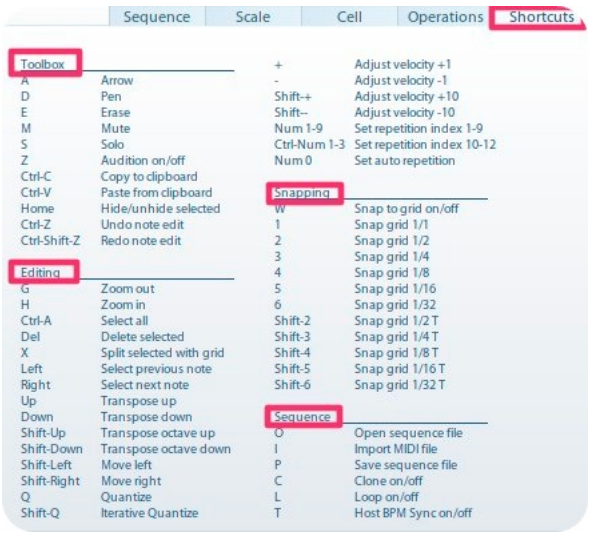


1. **Tempo adjustment buttons**:

- Adjusts tempo (or length) of selected notes.
- Double/Half
- Triplets (+inv)
- Quintuplets (+inv)
- Septuplets (+inv)

2. **Q**: Performs a hard quantize of selected notes to grid.
3. **Q-end**: Quantizes ends of selected notes to grid.
4. **Q-iter**: Quantizes selected note(s) to grid, with selected Q-strength.
5. **Q-strength**: Sets strength of iterative quantize.
6. **Split**: Splits selected notes on the grid lines.

Shortcuts Tab



Lists all available APP Sequencer shortcuts for Windows and OS X (depending on the OS, here it is Windows).

Control / Status Bar



1. **Status Area**:

- Displays information about current sequence
- Matrix name
- BPM
- Root key
- Root Velocity
- Written in scale > Perform in scale
- Selected notes

2. **Pitch**: Adjust pitch of selected note(s).
3. **Vel**: Adjust velocity of selected note(s).
4. **Start**: Sets start position of selected note. When several notes are selected, first note starting point will be set to desired value while other notes will keep their relative offset.
5. **End**: Adjusts end position of selected note(s). When several notes are selected, first note end position is displayed.

6. **Length**: Adjusts length of selected note(s).
7. **A/B**: Forces selected note(s) to specific A/B controller.
8. **Leg**:

- Forces selected note to specific legato offset (legato transitions for different intervals, from -12 to 12). Legato offsets are visualized by lines drawn before note starting position. These indicate which note the assigned transition was coming from. Portamento Patches make this system quite clear.
- The benefit is to receive more options for note transitions.

9. **Rep**: Forces selected note(s) to specific repetition index (up to 9 repetitions). Repetition index is shown as a number at the start of a note.

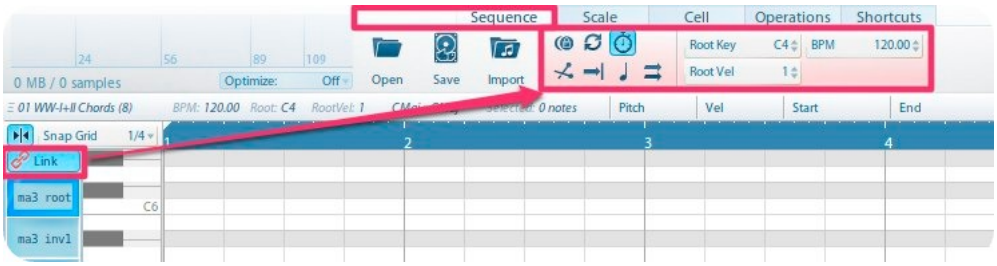
Sequence Timeline

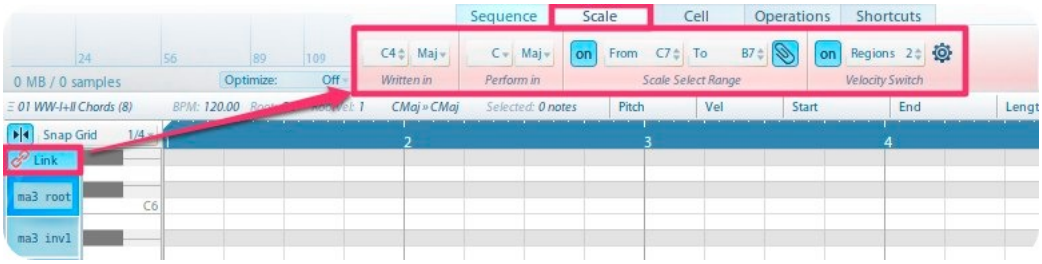


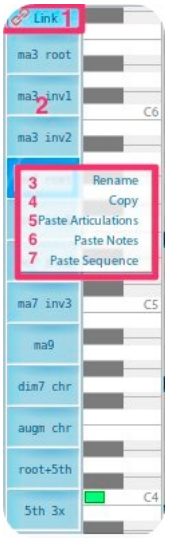
1. **Snap Grid on/off**: Enables/disables snap grid. New notes will be placed according to the grid devision.
2. **Snap Grid**: Sets the snapping grid division of the pianoroll editor and timeline.
3. **Timeline**:

- Shows beats/bars numbers and divisions.
- Right-click and drag to define a loop.
- Ctrl-click and drag to edit loop start point.
- Alt-click and drag to edit loop end point.
- Click-drag on start/end point triangles to edit loop.
- Loop points will follow snap settings.
- Right-click outside the loop to remove the loop.
- Double-click to select all notes of the sequence.

Sequence Selector / Keyboard







1. **Link**: When activated, all cells of the matrix share the same Sequence and Scale settings, the corresponding tabs are underlaid in red.
2. **Sequence Selector**: Selects current sequence. The number of available sequences is always the same as matrix height (Y-Axis).
   Sequence name will be shown in the sequence selector, as well as in the matrix view on Basic/ Advanced pages.
3. **Rename**: Edits the name of the selected sequence
4. **Copy**: Copies sequence to clipboard.
5. **Paste Articulations**: Pastes articulations into the selected sequence cell.
6. **Paste Notes**: Pastes notes into the selected sequence cell.
7. **Paste Sequence**: Pastes the complete sequence into the selected sequence cell.

Slot Rack

The Slot Rack is a container for Patches. It always displays the contents of the selected Matrix Cell and is divided into 8 slot rows (1-8) that are in turn split into an "a" and "b" section. The whole section below the Slot Rack (Slot Editor and Humanize Area) offers many options to influence the behavior and interaction of these slots. The selected slot is always highlighted!

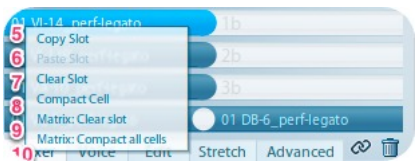
When you are dragging a Patch from the Patch Browser onto a Matrix Cell, each slot will display a number (1-0, A-F). If you press a number or letter on your computer keyboard while you drop the Patch onto the Matrix Cell, the corresponding slot will be loaded. Of course you can also drag Patches directly onto each slot.

8 Slot rows only become visible when dragging patches onto the Slot Rack.



Watch the video





Cross Reference: One essential controller for the Slot Rack is the **Slot Xfade Controller** that can be found in the "Perform" tab of the **Advanced View**:



1. **Slot**:

- Load slot by dragging & dropping a patch from browser.
- Unload slot by clicking and holding slot while pressing Del or Backspace
- Set current slot by clicking.

2. **Slot Xfade**:

- Loading both (a) and (b) slots will reveal the xfade button.
- When active, slots can cross-fade into each other using the "Perform Slot Xfade" controller.
- When inactive, the "Perform Slot Xfade" controller adjusts the level of (b) slots.

3. **Patch Link (Link by patch name)**: Activating the Patch Link will link editing of all slot parameters with the identical patch name. Similarly, replacing a patch when "Patch Link" is activated, will replace the patch in all occurences throughout the instrument.
4. **Trash-can**: Clears selected slot.
5. **Copy Slot**: Copies selected slot to clipboard.
6. **Paste Slot**: Pastes selected slot from clipboard, replacing current values.
7. **Clear Slot**: Clears selected slot.
8. **Compact Cell**: Gets rid of unwanted spaces between slots, moving patches closer.
9. **Matrix: Clear Slot**: Clears selected slot in all cells of a matrix.
10. **Matrix Compact all cells**: Gets rid of unwanted spaces between slots in all cells of a matrix.

Slot Editor – Mixer

The level and panning of each Slot can be controlled with this convenient mixer:



1. **Pan Control**:

- Click-drag to adjust value.
- Hold down Ctrl and drag to adjust left channel.
- Hold down Alt and drag to adjust right channel.
- Double-click resets to default value (max width).

2. **Volume Edit**:

- Click to edit.
- Enter confirms value input.

3. **Volume Slider**:

- Drag to set value.
- Double-click to set default value.
- Mouse wheel to set value.
- Hold down shift modifier key for precise movement.

4. **Copy mixer state**: Copies the mixer state to clipboard.
5. **Paste mixer state**: Pastes the mixer state from clipboard, replacing current values
6. **Paste volume only**: Pastes volume settings from copied mixer state.
7. **Paste pan only**: Pastes pan settings from copied mixer state.
8. **Reset mixer state**: Resets the slot mixer to default settings.
9. **Replicate Mixer State (Matrix)**: Apply mixer settings to all loaded slots of the selected matrix
10. **Replicate Mixer State (All Matrices)**: Apply mixer settings to all loaded slots of all loaded matrices of an instance
11. **Slot Mixer Sync**:

- Shows the chosen Synchronization in Mixer Sync / Options Tab.
- No sync: Mixer only affects the selected cell
- Sync (green): The slot mixer for all cells in the Vienna Instruments instance is globally synchronized.
- Sync (orange): The slot mixer for all cells in a matrix is synchronized.

12. **Link Volume**: Link the volume of a and b slots of the selected cell, activated by default
13. **Link Panning**: Link the panning of a and b slots of the selected cell, activated by default

Slot Editor – Voice

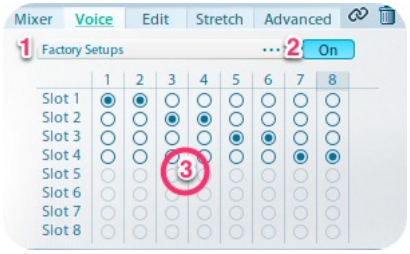
Auto Voicing is a new way to distribute the voices of a chord to different Slots in the Slot Rack. Great for short articulations and chords with ensembles:



Watch the video

> **Important**
>
> Auto Voicing is not designed to work with Legato Patches, as each overlapping note (even if is just 1 ms overlap) is interpreted as a new voice.

The 8 Slot Rows are on the left-hand side and you can assign up to 8 voices of a chord to these slot rows. In this example, the first two notes would trigger Slot Row 1, the 3rd and 4th note would trigger Slot Row 2 and so forth...Of course only if Auto Voicing is activated!



1. **Factory setup**: Loads one of the default auto voicings.
2. **On/Off**: Enables/disables auto voicing.
3. **Slot Area Setup**: Clicking a number or click-dragging resizes the auto voice matrix.
   Each subsequent voice can be routed to any of the 4 slots.

Slot Editor – Edit

As the name implies, the Slot Editor influences only the selected slot. Transposing the loaded patch in octaves or half-tone steps will be displayed on the keyboard.



1. **Octave**: Sets slot octave offset.
2. **Transpose (Semitone)**: Sets slot transposition in semitones.
3. **Velocity XF**:

- N/A – If no patch in a slot is selected, or patch does not contain velocity xfade mapping.
- Global – Slot follows setting of [Perform > VelocityXFade].
- On – Forces slot to Vel XFade enabled.
- Off – Forces slot to Vel XFade disabled.

4. **Velocity Curve**:

- Velocity floor handle.
- Curve shape handle.
- Clicking and dragging in middle of control adjusts floor and curve simultaneously.
- Ctrl-click anywhere on curve to reset floor and curve to patch default.

5. **Delay**:

- Click-drag to set value.
- Delays the played notes of the selected patch.

6. **Attack**:

- Click-drag to set value.
- Influences the attack of the patch (fade in).

7. **Release**:

- Click-drag to set value.
- Reduces or extends the release time of the patch.

8. **Release Delay**:

- Click-drag to set value.
- Adds a delay after letting go of the note (note-off).

9. **Overlap**:

- Click-drag to set value.
- Sets legato note overlap time between two notes when playing intervals.

Slot Editor – Stretch

The new **Enveloped Time-Stretching** expands the possibilities of the File Browser Stretching that was available in Vienna Instruments Pro Version 1. Now you can control the envelope for 3 advanced stretching algorithms that will multiply your articulations!



Watch the video



1. **On/Off**: Activates stretching for this slot.

2. **Presets**:

- Click to display saved presets.
- No factory presets available.

3. **Load**: Loads a stretch preset file from disk.
4. **Save**: Saves current stretch settings to disk.
5. **Toolbox**:

- Inverse Curve
- Reverse Curve
- Reset Curve
- Copy Curve
- Paste Curve

6. **Zoom level**: Sets vertical zoom level (10-25-50).
7. **Zoom slider**: Zooms stretch graph horizontally
8. **Stretch Curve**:

- Double-click to add stretch point
- Click and drag point to adjust its setting
- Click and drag outside of point to create a multi-selection rubberband
- Click and Alt-drag between selected points to "stretch" the graph horizontally
- Click and Shift-drag between selected points to stretch the graph vertically
- Control-Click (OS X: Cmd-Click) on selected point(s) to delete.
- Use mousewheel to zoom stretch area horizontally.
- Use scrollbar to adjust the range/view of the stretch curve.

9. **Copy**: Copies stretch envelope to clipboard.
10. **Paste**: Pastes stretch envelope, replacing current.
11. **Reset**: Resets stretch envelope.
12. **Stretch Mode**: Sets the stretching algorithm used. Algorithm 1 is best for strings, while algorithm 2 and 3 usually sounds better for winds and percussion.
13. **Render**: The Render button will be activated (and blinking) whenever the patch needs to be re-rendered. Pressing the Render button will apply the current stretch graph and settings to the slot.

Slot Editor – Advanced

The Advanced Settings of each slot are a good way to create new versions of patches – which results in more natural variations. The intricacies of this section are best explained in our Video Tutorials.



1. **Patch information**:

- Patch name
- Wave count. Actually shows sample regions, and thus may show more than actual samples, since some samples are mapped twice, e.g., release samples.
- Velocity layers.
- Release samples (not necessary with some articulations such as staccatos).
- AB switch: Decides between contrary movements like crescendos/diminuendos or runs upwards/runs downwards. With select patches only.

2. **Start Offset Mode**: Defines which samples should be affected by "Start Offset" setting. (All, First, Repetitions, Legatos, Repetition+Legato samples).
3. **Start Offset**: Sets sample start offset in ms. Any value above 0 ms will also enable the "Start Offset Attack" setting.
4. **Start Offset Attack**:

- Applies a volume smoothing to Start Offset, to get rid of clicks.
- Only available when Start Offset activated.

5. **AB Mode**: Forces AB setting for this slot to the specified setting. The Global setting will make slot follow the main AB controller setup.
6. **Repetition threshold**: Time from note-off to retrigger starting note.
7. **Interval Mode**:

- Sets the interval mode to be used for this patch. "Global" means that the interval mode set in "Options" will be applied, will take whatever patch was mapped to use.
- This setting will show "N/A" for patches that don't incorporate any legato mappings.

8. **Interval threshold**: Sets the interval detection time limit. Releasing a key, then pressing another one

within this time limit, will give an interval transition.

9. **Poly Chord Threshold**:

- Chord detection threshold time for polyphonic legato/intervals.
- All notes that are triggered after the set threshold will be triggered as interval samples.

10. **Release sample limit**: Limits the number of simultaneous release samples for each separate key to the set value. Mostly useful for patches with long releases, such as the Vienna Konzerthaus Organ.
11. **Release mode**: Enables forcing release mode for this slot to On or Off. The Global setting will make the slot follow the setting in the Perform tab.

Repetition Control



Repetition Control lets you decide which notes of a Repetition Performance you'd like to hear, and which ones you'd like to skip. Available repetitions will appear as red buttons, disabled repetitions will appear as greyed-out buttons. Alt-click on the first repetition button will disable 2nd Cycle Mode, which makes repetitions cycle from the second sample onwards. As all short notes in our *Vienna Instruments* Collections offer at least 2 variations, you can also choose which variations you like better with these Patches.

Humanize Area

The Humanize Area creates something wonderful: Human Imperfection. From subtle changes in intonation to simulating stress-induced tuning corrections and slightly un-tight rhythmic passages: Random patterns produce authenticity, be it in the string, woodwind or brass section. Additionally to these fixed variations, you can influence the intensity of the tuning curves and delay settings to create an even more random effect with real-time controllers.



Watch the video



1. **Humanize Preset Menu**:

- Loads all settings for the Humanize Area.
- Factory presets are shown in the menu root.
- User presets will appear in "User Presets" submenu.
- Customized Presets are stored in the following locations by default (you can change this location):
- **OS X**: \Users\username\VSL\Vienna Instruments Pro\Humanize Presets
- **WIN 7+**: C:\Users\Public\Documents\VSL\Vienna Instruments Pro\Humanize Presets
- **WIN XP**: C:\Documents and Settings\username\Application Data\VSL\Vienna Instruments Pro\Humanize Presets

> **Tip**
>
> To assign "random" tuning curves quickly when you're changing the tuning of many patches, hold down Ctrl-Alt-Shift and click the "Humanize:" label, just to the left of the Humanize Preset box itself. You will then be asked to press a key to assign an "in tune random" variation number without going through the sub-menus.

2. **Load**: Opens dialog to load performance preset from file system.
3. **Save**: Opens dialog to save performance preset to file system. By default, the save dialog will open in the location documented above. Saving a preset there will make it appear in the quick presets menu.
4. **Tuning Curve Window**:

- Double-click to add tuning point.
- Click and drag point to adjust its setting.
- Click and drag outside of point to create a multi-selection rubber-band.
- Click and Alt-drag between selected points to stretch the graph horizontally.
- Click and Shift-drag between selected points to stretch the graph vertically.
- Control Click on selected point(s) to delete.
- Use mouse-wheel to scroll tuning area horizontally (tuning point must be selected).
- Use scrollbar to adjust the range/view of the tuning curve.

5. **Note Delay**: Sets note-on delay for currently selected humanize index.
6. **Threshold**: Sets time, after note-off, when to return to first humanize index.
7. **Toolbox**:

- Inverse curve
- Reverse curve
- Reset curve
- Copy curve
- Paste curve

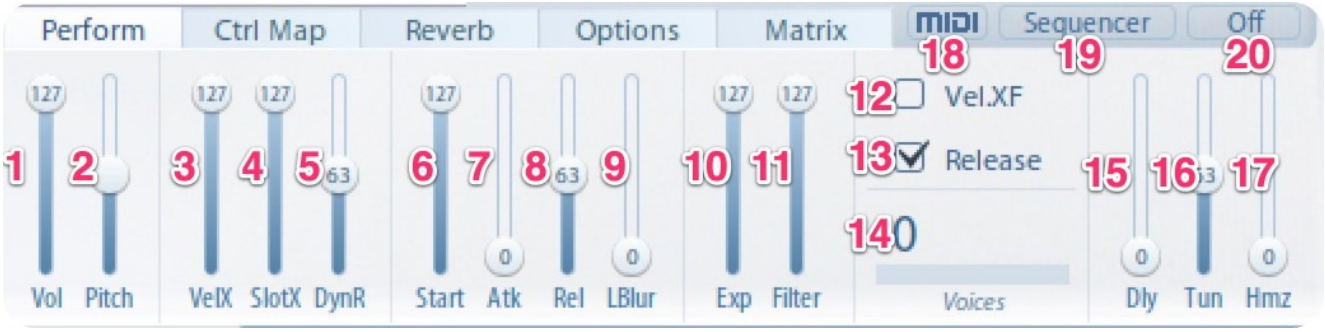
8. **Vertical Zoom**: Sets vertical display range of the tuning curve.
9. **Horizontal Zoom**: Sets horizontal zoom of tuning curve.
10. **Performance Selector**:

- Click button with "+" icon to add a new variation.
- Click anywhere after the "+" icon button to add variations to this point.
- Click on a button to select the variation and display its tuning curve.
- The current tuning curve used by core is displayed by a little triangle above the respective button.

11. **Link**: Activating link button will make variation selection follow core.
12. **Variations**: Click and drag to change the number of humanize variations.

Perform Tab

All Controllers in the Perform Tab are global controllers that affect the whole *Vienna Instruments PRO* instance.Right-click for MIDI-learn.



1. **Master Volume**: Sets master volume.
2. **Master Pitch**: Sets master pitch.
3. **Velocity Xfade**: Sets velocity crossfade value.
4. **Slot Xfade**:

- Cross-fades between rack slots (a) and (b).
- Alternatively sets the volume of all (b) slots, when Slot Xfade is not activated in the Slot Rack.

5. **Dynamics Scaler**: Scales the velocity floor setting in the Slot Editor globally.
6. **Start Offset**: Scales start offset value in all slots and patches (if activated).
7. **Attack Scaler**: Scales slot and patch attack values.
8. **Release Scaler**: Scales slot and patch release values.
9. **Legato Blur**: For smoother legato transitions. Scales the P.Rel Setting of the Cell Edit Window in Advanced View, which creates a longer overlap time between legato notes.
10. **Expression**: Sets master expression volume.
11. **Master Filter**: Sets master filter frequency.
12. **Velocity Xfade**: Enables global velocity crossfade.
13. **Play Release**: Enables playback of release samples.
14. **Voices**: Displays the currently played amount of voices.
15. **Delay**:

- Value of this control will be multiplied with the Humanize "Note Delay" setting.
- Changing this slider in real-time will enable to control the "tightness" of the instrument.
- This slider is set to "0" for all default presets, so that no unintended timing issues occur.

16. **Tuning**:

- Value of this slider will be multiplied with the humanize tuning curve values.
- Changing this slider during playback will thus control the unison intonation of the instrument (if a tuning curve is applied in the Humanize Area).

17. **Humanize**:

- This slider acts as a multiplier for both the "Delay Scaler" and "Tuning Scaler" sliders.
- Controlling this slider in real-time will produce a "humanize" effect.

18. **MIDI Dump** (also below Matrix List in BASIC View): Click MIDI DUMP and the current Matrix Selection, Cell Position, A/B Position, Sequencer Root Key and Scale Type of the selected Vienna Instruments PRO Interface will be dumped to the record-enabled track in your sequencer as MIDI information.
19. **Sequencer**: Switches to Sequencer View
20. **On/Off**: Enables/Disables Sequencer

Controller Map Tab

The Controller List shows all parameters automatable by MIDI, and any current controller assignments. All parameters are available in the Parameter Assign List of the Real-time Controllers in the Basic View.



1. **Controller List**: Click (or click and drag) to select a controller and display its settings.
   Default Settings:

- Volume: CC7
- Expression: CC11
- Master Attack: CC22
- Master Release: CC23
- Legato Blur: CC33
- Pitch: Wheel

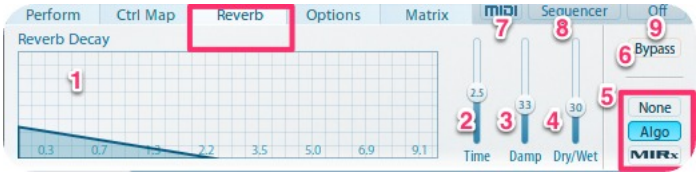
- Master Filter: CC24
- Slot XF: CC20
- Velocity XF: CC2
- Velocity XF On/Off: CC28
- RSamp On/Off: CC29
- Delay Scaler: CC25
- Tuning Scaler: CC26
- Humanize: CC27
- Dynamics Scaler: CC30
- Start Scaler: CC21
- Reverb Wet: CC14
- Reverb On/Off: CC15

2. **Scroll Bar**: Click-drag left/right to move through the controller list.
3. **Source Menu**: Click to select the source controller for the selected parameter.
4. **Learn**: Click to activate MIDI learn for the selected parameter.
5. **Invert**: Click to enable an inverse transfer curve.
6. **Bipolar**: Click to enable a bipolar curve.
7. **Controller Curve**: Click and drag to change the controller curve function.
8. **MIDI Dump** (also below Matrix List in BASIC View): Click MIDI DUMP and the current Matrix Selection, Cell Position, A/B Position, Sequencer Root Key and Scale Type of the selected Vienna Instruments PRO Interface will be dumped to the record-enabled track in your sequencer as MIDI information.
9. **Sequencer**: Switches to Sequencer View
10. **On/Off**: Enables/Disables Sequencer

Reverb Tab

Algorithmic Reverb

The built-in Algorithmic Reverb is simple, yet effective. It is switched off by default, to make your transition from the original *Vienna Instruments* easier. You'll be surprised how good this reverb sounds with minimal CPU power consumption!



1. **Reverb Graph**:

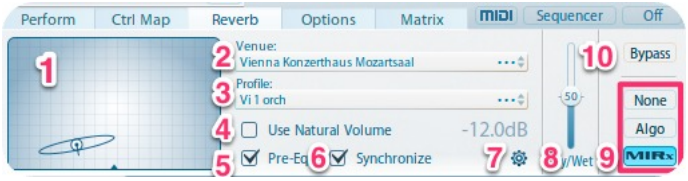
- Click-drag to simultaneously set Wet/Dry level and tail time.
- Click-drag horizontal handle to set Wet/Dry level.
- Click-drag vertical handle to set tail time.

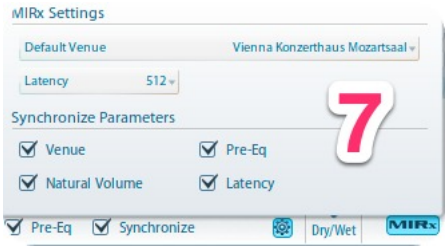
2. **Tail time**: Click-drag to set tail time
3. **Damp**: Click-drag to set reverb damping
4. **Wet/Dry Level**: Click-drag to set reverb wet/dry level
5. **Reverb Selection**: Switches between None/Algorithmic/MIRx Reverb
6. **Bypass**: Bypasses the selected Reverb Type
7. **MIDI Dump** (also below Matrix List in BASIC View): Click MIDI DUMP and the current Matrix Selection, Cell Position, A/B Position, Sequencer Root Key and Scale Type of the selected Vienna Instruments PRO Interface will be dumped to the record-enabled track in your sequencer as MIDI information.
8. **Sequencer**: Switches to Sequencer View
9. **On/Off**: Enables/Disables Sequencer

MIRx – Mixing Reverb Extension

MIRx takes the expertise we could gather from working with *Vienna MIR PRO* and applies it to this comfortable Impulse Response Reverb, with the most essential positioning for all symphonic instruments.

Enjoy a simple way to establish a prefect mix with the right balance between all your instruments.





> **Caution**
>
> MIRx Venues are available as separate products, they are not included with Vienna Instruments PRO! More information is available in the MIRx manual in MyDownloads

1. **Instrument Position Display**:

- Displays the position of the selected instrument in the selected venue
- Position in venue depends on the selected Profile

2. **Venue**: Choose from various venues, depending on your purchased license(s)
3. **Profile**:

- Choose from orchestral seating and solo seating for the loaded instrument.
- If more than one instrument is loaded, multiple profiles will be available.
- Only one profile can be selected for each VI PRO instance!
- Only profiles for loaded instruments will be available
- General Purpose profiles are available for all instruments

4. **Use Natural Volume**:

- Enable to set the right balance between all instruments
- The amount of volume reduction is displayed in dB to the right
- Remember that the volume reduction is in relation to the very loudest instrument in the orchestra
- Consult the Natural Volume list in the MIRx manual for more details!

5. **Pre-EQ**:

- Enabled: Automatically applies tailor-made EQ settings to the selected profile
- EQ is added before reverberation

- Alternatively, you can use the built-in Matrix Equalizer (see Matrix Tab in Advanced View)

6. **Synchronize**:

- Synchronizes all Vienna Instruments PRO instances in the same host that have a checked Synchronize box
- Synchronization starts with first parameter change after activation
- Hosts:
  - Vienna Instruments PRO plug-ins in your sequencer
  - Vienna Ensemble servers (32/64 bit separately)
  - Vienna Ensemble PRO servers (32/64 bit separately)

7. **MIRx Settings**:

- **Default Venue**: Choose your Default Venue, when activating MIRx
- **Latency**: MIRx relies on convolution processes, which is why the engine has its own latency settings to **optimize CPU load**.
  As a rule of thumb, **more latency means less CPU load**, but there are two numbers to be taken into account here, namely the **host buffer size** (as reported by your audio system drivers) and the **MIRx latency setting**. The latter should either be 0 (which is usually ideal) or a number greater the host buffer size.
  MIRx latency below or equal to the host buffer size will yield sub-par results.
- **Synchronize Parameters**:
  - Venue
  - Natural Volume
  - Pre-Eq
  - Latency

8. **MIRX Wet Slider**:

- Adjusts the amount of wet signal added by MIRx.
- Default setting: 63

9. **Reverb Selection**: Switches between None/Algorithmic/MIRx Reverb

10. **Bypass**: Bypasses the selected Reverb Type

Options Tab

Find all Master Settings for each *Vienna Instruments PRO* instance in this tab.



1. **Pitch range**: Click-drag to set the master pitch bend range (as controlled by the Perform tab > Pitch Bend slider).
2. **A4 Master Tune**: Click-drag to set the master A4 tuning frequency.
3. **Pan Law**:

- Determines how the signal level in the slot rack mixer is affected by panning. Without compensation, the combined loudness of the left and the right signal will be higher if a channel is panned to the center than if it is panned to one side. Pan Law allows for attenuation of the signal when panned to the center.
- The optimum value depends on the input source. Default = -3 dB

4. **Matrix CC**:

- Sets Control Change number reserved for matrix switching.
- Please note that a selected value here will disable usage of selected control change number for other purposes.

5. **Interval Mode**: Sets the global interval mode. Polyphonic Legato is selected by default in a new Vienna Instruments PRO instance.



Watch the video

6. **Sync Matrix**:

- ON: Enables synchronization of cell position when switching between Matrices of the same size (they need to contain the same material as well)
- ON + Ctl: Enables additional synchronization of all matrix controls between matrices.

7. **Sync Mixer**:

- No sync: Mixer only affects the selected cell
- Sync (green): The slot mixer for all cells in the Vienna Instruments instance is globally synchronized.
- Sync (orange): The slot mixer for all cells in a matrix is synchronized.)

8. **Master Filter Type**:

- Click to select master filter type.
- LP6 is a less steep filter than LP12.

9. **Master filter Freq 1**:

- Sets master filter start frequency.
- Click-drag to change value.
- Double-click to edit value. Press Enter key to confirm.

10. **Master filter Freq 2**:

- Sets master filter end frequency.
- Click-drag to change value.
- Double-click to edit value. Press Enter key to confirm.

11. **Master filter Curve**:

- Click-drag to change value.
- Double-click to edit value. Press Enter key to confirm.

12. **Filter Curve View**: Click-drag anywhere to change filter curve.
13. **Mic Delay Scaler**: Only available for Synchron Series ROOM-MIX Presets: Inserts runtime-delay on the ROOM-Mix slots. Default: 100 (equals 18 ms for Synchron Strings ROOM-Mix Presets).
14. **MIDI Dump** (also below Matrix List in BASIC View): Click MIDI DUMP and the current Matrix Selection, Cell Position, A/B Position, Sequencer Root Key and Scale Type of the selected Vienna Instruments PRO Interface will be dumped to the record-enabled track in your sequencer as MIDI information.
15. **Sequencer**: Switches to Sequencer View
16. **On/off**: Enables/Disables Sequencer

Virtual Keyboard



Watch the video

The Keyboard in the Advanced View adds some great features: Create Volume Graphs for your Multi-Instruments and limit the range of certain patches. The keyboard always displays the active range of the selected slot as white keys, all other overlapping regions will be colored in a light grey.Inactive areas will be dark grey.



1. **Keys**:

- Click to play note. Playback velocity depends on where key was clicked vertically.
- Click-drag to continuously play notes. Velocity will be fixed to wherever first note was pressed vertically.
- Any assigned Key Switches will appear with color and a marking on the respective key.
- AB Key Switches are red.
- Matrix Key Switches are purple.
- X-Axis Key Switches are blue.
- Y-Axis Key Switches are green.
- Multiple Key Switches assigned to a single key, will show a diagonal stripe pattern.

2. **Scrollbar**: Click-drag left/right to move keyboard.
3. **Enable Graph**: Toggle to show volume graph.
4. **Enable Range**: Toggle to enable range controls.



5. **Volume Graph**:

- Double-click to add volume graph point.
- Click and drag point to adjust its setting.
- Click and drag outside of point to create a multi-selection rubber band.
- Click and Alt-drag between selected points to stretch the graph horizontally.
- Click and Shift-drag between selected points to stretch the graph vertically.
- Ctrl-click or double-click on selected point(s) to delete.
- Use mouse-wheel to scroll volume area horizontally.
- Use scrollbar to adjust the range/view of the volume curve.



6. **Range Control**: Click and drag left or right handles to limit keyboard playing range. Range Control only affects the selected slot.

Matrix Tab

The Matrix Tab finally introduces micro-tuning! Choose from many 12-step scales and add your own 12-step scales, if you like. Additionally, a 3-band EQ is available for each matrix! As all functions are only affecting the selected matrix, you can switch between different tunings by switching between Matrices!



1. **Scale menu**: Click to select a 12-step Scala tuning to load. Supplied factory Scala files are installed to the following locations:

- **macOS**: Library\Application Support\VSL\Vienna Instruments Pro\Scales
- **Win**: C:\ProgramData\VSL\Vienna Instruments Pro\Scales
- You may add or edit 12-step Scala files in this location.

2. **Pin Scales**: Toggling this button will apply the selected scale to all matrices.
3. **Scale Editor**:

- Shows current tuning shifts (in cents) of an octave.
- Click on a value and drag to adjust
- Adjusted scales cannot be saved separately, but will be saved with a matrix/preset.

4. **Matrix Equalizer**:

- Three bands of equalization, using the Vienna Suite algorithms.
- Click-drag a point to set frequency/gain.
- Control-drag a point to change Q.
- Double-click a point to reset to default gain.
- Use mouse-wheel on a selected point to change its Q.

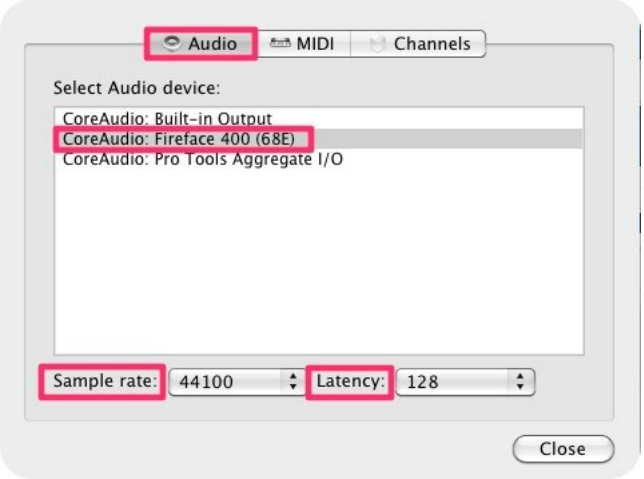
5. **EQ On/Off button**: Enables the current EQ setting for current matrix. It's On and reset by default.
6. **Zoom button**: Pops up a larger version of equalizer.
7. **MIDI Dump** (also below Matrix List in BASIC View): Click MIDI DUMP and the current Matrix Selection, Cell Position, A/B Position, Sequencer Root Key and Scale Type of the selected Vienna Instruments PRO Interface will be dumped to the record-enabled track in your sequencer as MIDI information.
8. **Sequencer**: Switches to Sequencer View
9. **On/Off**: Enables/Disables Sequencer

Standalone

You can also use *Vienna Instruments PRO* as a stand-alone virtual instrument. As the *Vienna Instruments* stand-alone version is not connected to or embedded in any sequencer, you have to configure the preferences for Audio and MIDI. All other features are identical with the plug-in version of *Vienna Instruments PRO*.

Preferences

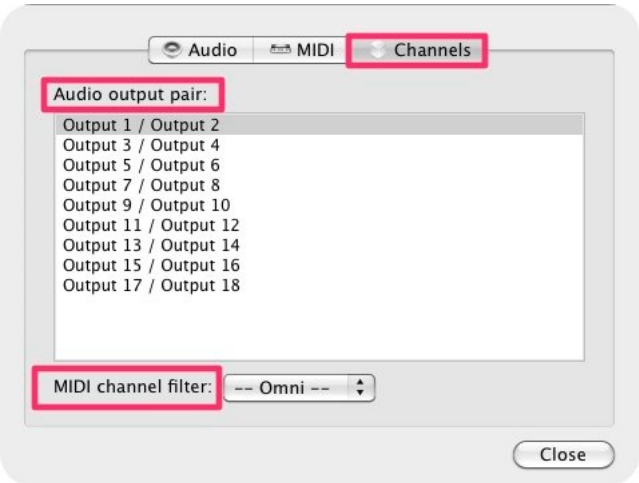
The **Audio** tab lets you choose your preferred soundcard. You can set the **Sample Rate** and **Latency**, **Panel** opens the settings panel of your soundcard.



In the **MIDI** tab, you decide which MIDI Ports will be available for *Vienna Instruments PRO*.



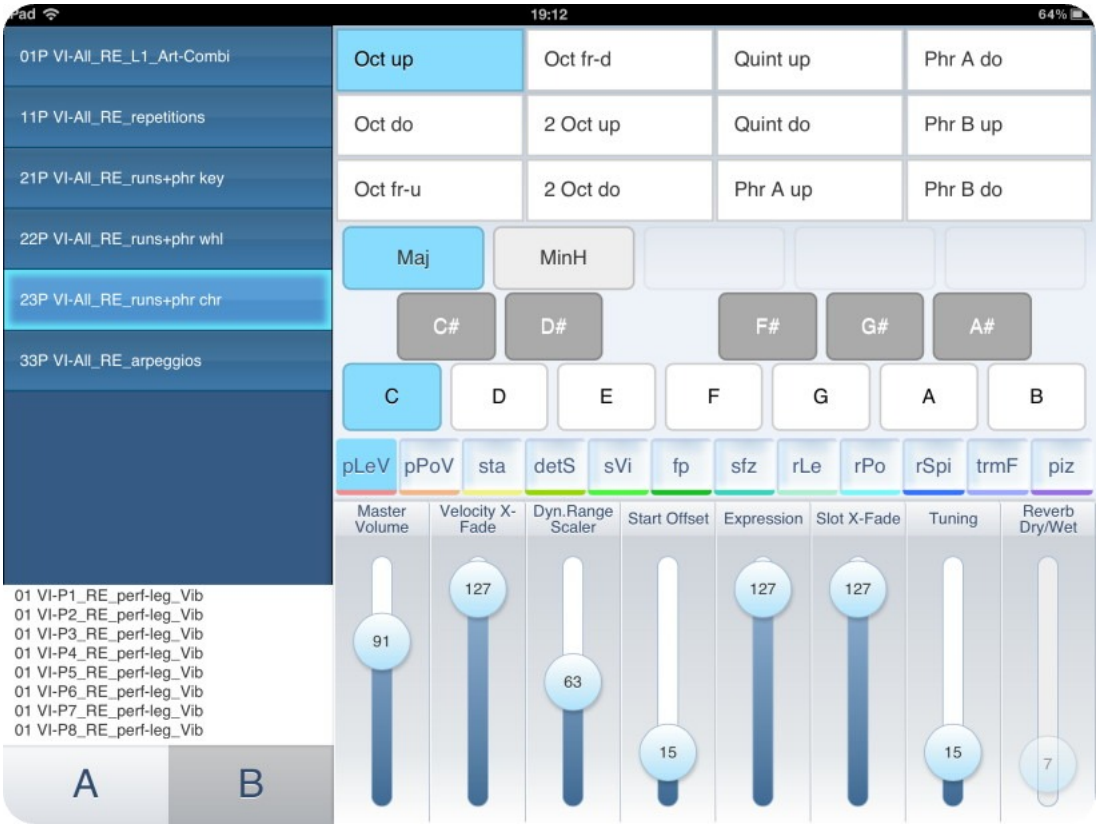
The **Channels** tab lets you assign the audio output pair, depending on your selected soundcard. The **MIDI channel filter** lets you block any MIDI signals from other channels than the ones assigned here.



Remote Control App for Tablets



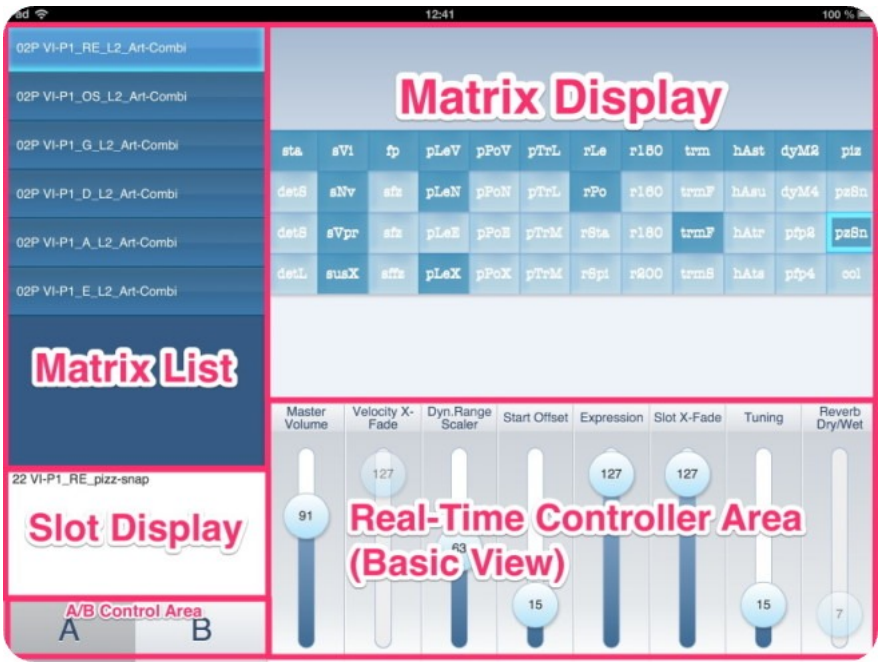




System Requirements

- **NEW Vienna Instruments latest version (VI)**
- **Vienna Instruments PRO latest version (VI PRO)**
- Apple iPad:iOS 5.1or later
- Other tablets: Android 4.0 or later with Chrome or Firefox browser
- **10 inch tablets** are recommended

VI/ PRORemote App Overview



Installation Instructions

1. Launch Vienna Instruments (PRO). Open Settings.



2. Under Remote control, choose MIDI Driver and Remote Control Setup.
3. Activate the checkbox **Enable remote control (Web Server)**. Should your OS prompt for firewall permissions, click "Allow".

If you are using an **iPad**, please open the **Safari** browser. If you are using an Android 4.x tablet, please install the **Chrome Web Browser** from the Google Play store, unless it's already installed. **NEW**. Synchronization Options **Synchronize Control Map:** When enabled, all changes you make in the Controller Mappings tab of one instance will be applied to all VI/VI PRO instances running on your system. Also syncs the sliders in the Real Time Controller Area in Basic View.

5. On the settings panel you will see one or several addresses displayed under **Web addresses**.

Type this address into your web browser and click open (you might have to include `https://` at the

beginning of the URL).



If there are **several web addresses** and you do not know which one is responsible for the network to which your tablet WIFI is connected, please try all available addresses until finding the one that works.

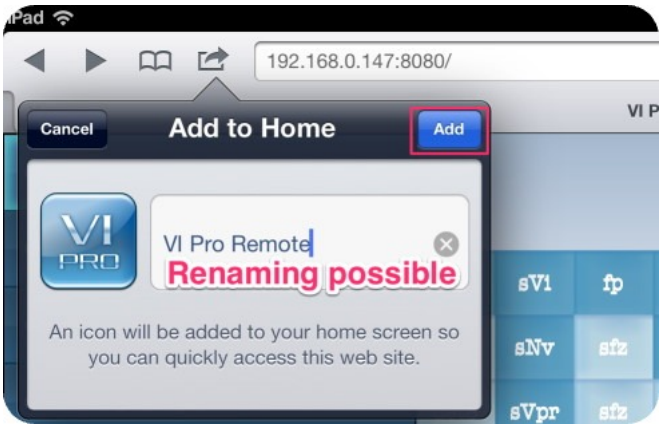
If none of the addresses work, please ensure that the audio workstation computer and your tablet share at least one common network.

7. Your browser now shows the control surface of the *VI PRO Remote App*. If the screen does not show correctly upon the initial load (which can happen on slower Android tablets), press the browser refresh button.

iOS-specific instructions for iPad

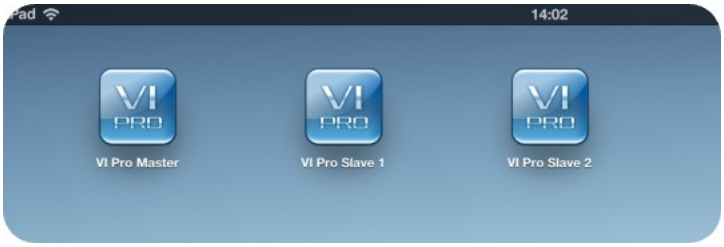
8. Click the **Add Bookmark** button on your browser and choose **Add to Home Screen**.





9. A **new icon** will appear on your home screen, which can be used to launch the *VI/PRO Remote App* and will remain valid as long as the network configuration of the target machine does not change.

Static IP Addresses make sense in such a setup!



1. **Repeat the installation procedure for all computers** you want to be remotely controlled, creating separate icons on the home screen, one for each computer.
2. If you are **running several applications** hosting *Vienna Instruments/Pro* on a single computer (e.g., Cubase and *Vienna Ensemble* PRO 32/64 bit simultaneously), **each host application will have a different web address**.

For **Vienna Instruments** users: Don't let the VI PRO icon in this documentation confuse you, the app works for Vienna Instruments just the same.

Android 4.0 specific Instructions

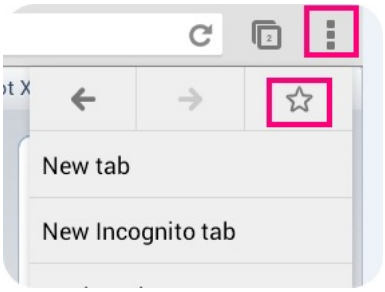
1. Click the Settings



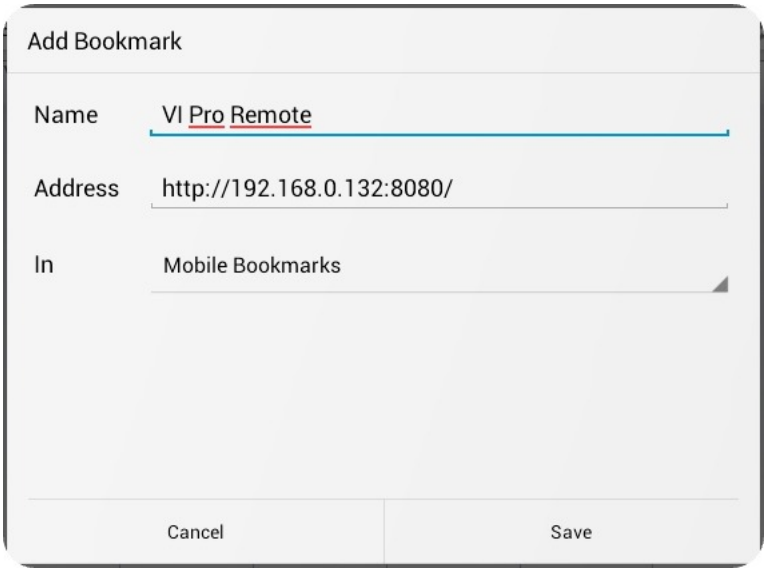
button in the top right corner of Chrome browser and from the popup menu choose the star icon



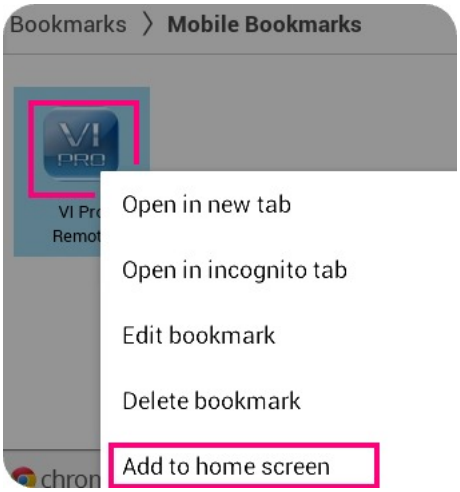
to add a bookmark:



8. Rename the entry if you like and press **Save.**



Static IP Addresses make sense in such a setup!



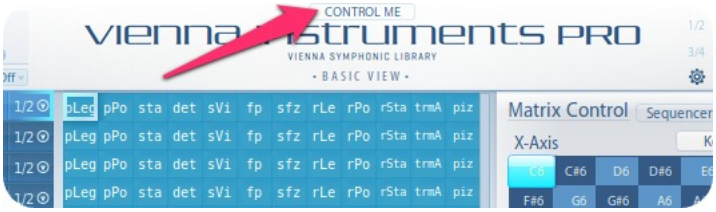
1. Please be sure to always open the bookmark with the **Chrome** browser, as Android 4.0 standard browser (depending on the tablet performance) might be too slow to handle the application properly. We also tested the **Firefox** browser on Android.
2. Repeat the installation procedure for all computers you want to be remotely controlled, creating separate bookmarks, one for each computer.
3. If you are **running several applications** hosting Vienna Instruments/Pro on a single computer (e.g., Cubase and Vienna Ensemble PRO 32/64 bit simultaneously), **each host application will have a different web address.**

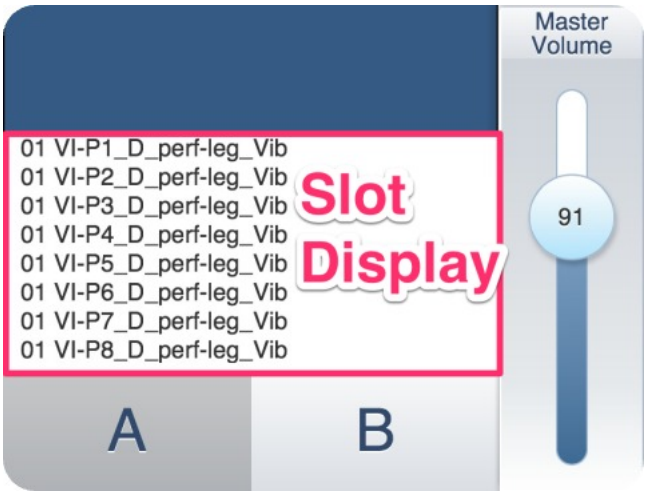
Communication with Vienna Instruments/PRO

Vienna Instruments/PRO now comes with a dedicated MIDI driver. This allows you to RECORD all matrix selections, cell selections, A/B selections and fader movements on the *VI/PRO Remote App* in your sequencer. The controlled *Vienna Instruments/PRO* instance is clearly highlighted in green.



To remote control another instance, click **Control Me**.



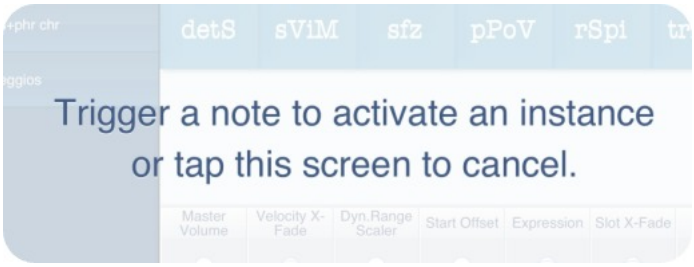


The articulations loaded into the slot rack of the selected cell are displayed in the Slot Display above the A/B Control Area.

To switch between A/B articulations (where available), simply tap A or B.



To enable **Automatic Activation Mode**(learn-input): **touch the A/B Control Area and drag upwards away from it** without releasing the finger until the message screen appears. The first *Vienna Instruments/Pro* instance receiving a MIDI note will be remote-controlled in your host.



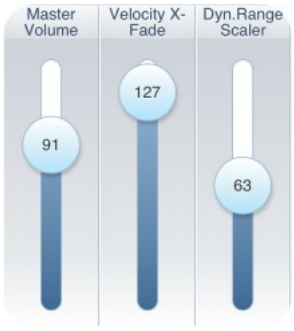
All actions in your *VI PRO Remote App* will be recorded on your **selected MIDI Channel** (see page 10 for details).

Make sure that this record-enabled MIDI channel corresponds with the remote controlled Vienna Instruments PRO instance.

You cans witch between matrices and cells by tapping any matrix or cell, and of course you can also use all available sliders. The sliders you see correspond to the sliders you have set in the BASIC VIEW of the remote controlled *Vienna Instruments/PRO* instance.

Enable/disable the Velocity X-Fade and Reverb Slider

- Tap the slider with **one finger to enable**
- **Tap the slider with two fingers** at the same time to **disable**
- Alternatively **touch the slider and drag far away from it horizontally** without releasing the finger to **enable/disable** the slider.This gesture might be more convenient than the two-finger tap.

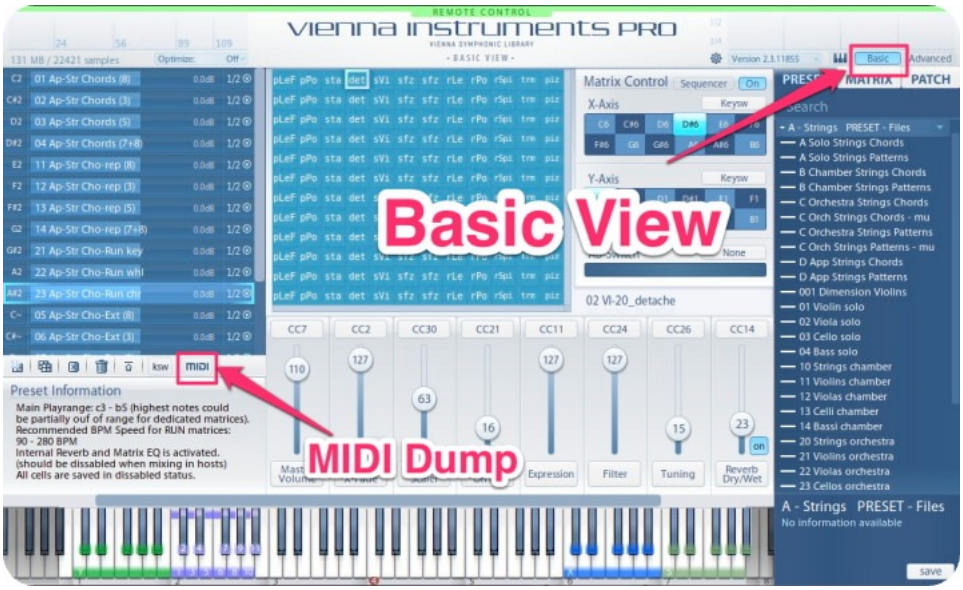


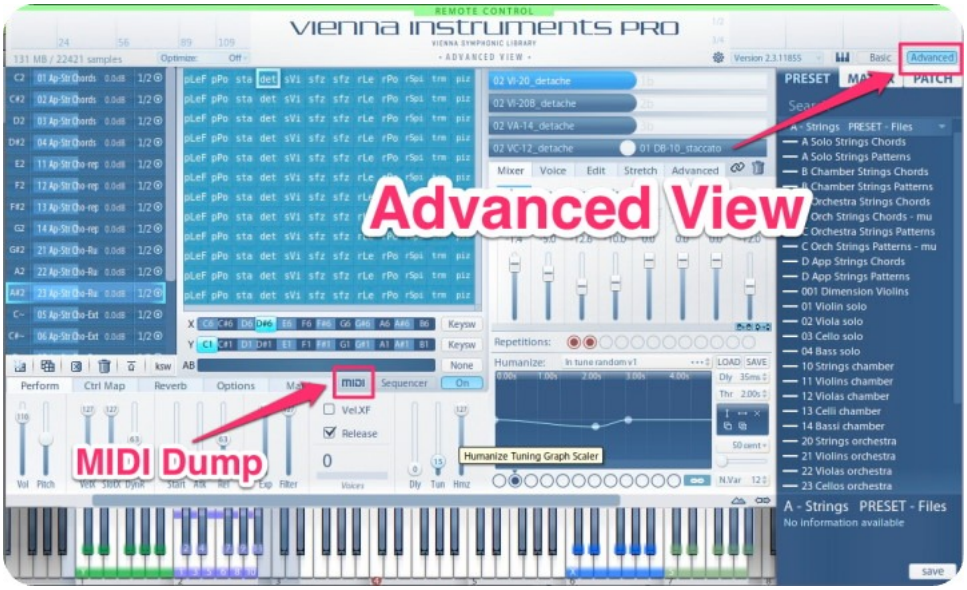


MIDI Dump

Vienna Instruments/PRO now has an additional feature for dumping the current state of the instrument to a virtual midi driver.

Click MIDI DUMP when the selected track in your DAW is record-enabled, and the current **Matrix Selection, Cell Position, A/B Position, Sequencer Root Key** and **Scale Type** of the selected *Vienna Instruments/PRO* Interface will be dumped to your sequencer as MIDI information.





Screen Real Estate

Resize the Matrix List section of the *VI PRO Remote App* by dragging your finger from left to the right (increase/decrease size).



> **Note**
>
> **Android devices**: Sometimes the left-swipe-drag action can be reserved for switching tabs in the browser.

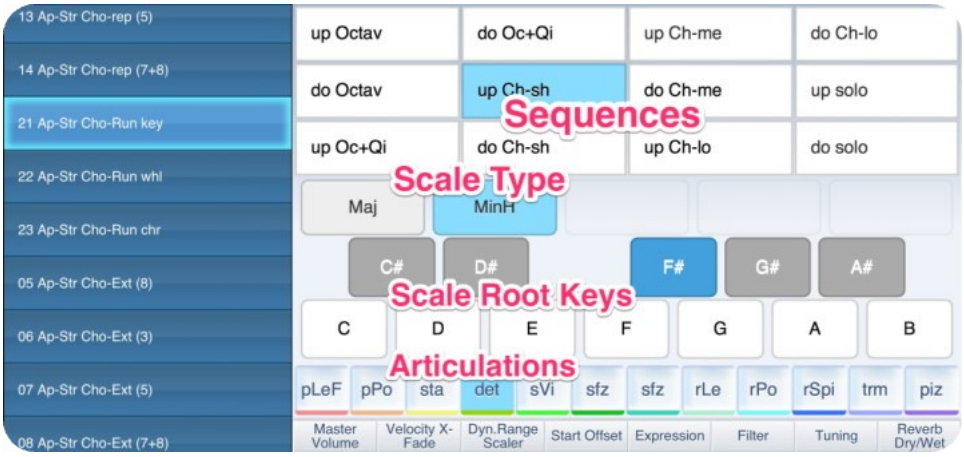
> **Tip**
>
> To prevent the browser from switching tabs during left-swipe drag action, hold a second finger somewhere else on the screen for a short time (i.e. slider pane or matrix) at the same times when the swiping finger crosses the screen edge.

Resize Matrix Display and Real Time Control Area by dragging the title bar of the Real Time Controller Area.



Sequencer View (Vienna Instruments PRO only)

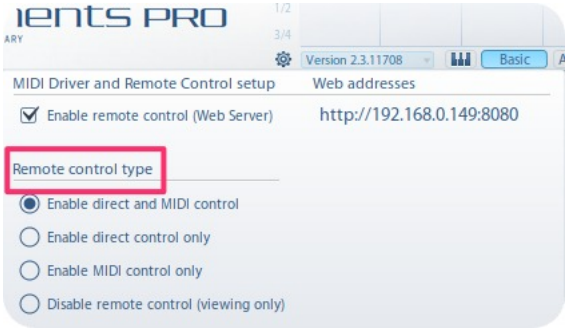
If the *Vienna Instruments PRO* Auto Playback and Pattern Sequencer is enabled in a matrix, the Sequencer View will appear on the *VI PRO Remote App*.



> **Tip**
>
> Choose between Sequences of the given matrix and assign different Scale Types and Root Keys for your sequenced performance! A great opportunity to check out the VI PRO Sequences you find in your VI PRO Presets folders from a different angle.

Remote Control Types

VI Pro Remote App provides 4 different modes of operation:



Enable direct and MIDI control

The *VI/Remote App* will control an instrument using both MIDI and direct control. This is **the most versatile of the modes**, allowing control even if MIDI is not routed to the active instrument.

Enable direct control only

In this mode, MIDI is deactivated. Only direct control of the instrument is performed (good for, e.g., live performances). Please note that **you will not be able to record any of the controller data when using this mode**.

Enable MIDI control only

When this mode is used, no direct control will change the instrument. It is a good way of verifying that the

instrument has MIDI controllers assigned, and that all keyswitches and controller data will be recorded by the sequencer.

Disable remote control (viewing only)

This mode turns off all remote control for the instrument, while still allowing the *VI /Pro Remote App* to display the current status of the instrument.

> **Important**
>
> When a mode involving MIDI control is enabled in the setup dialog, the *VI/PRO Remote App* will be sending MIDI feedback data with keyswitches and controller data to the Vienna Instruments MIDI **virtual midi** port.

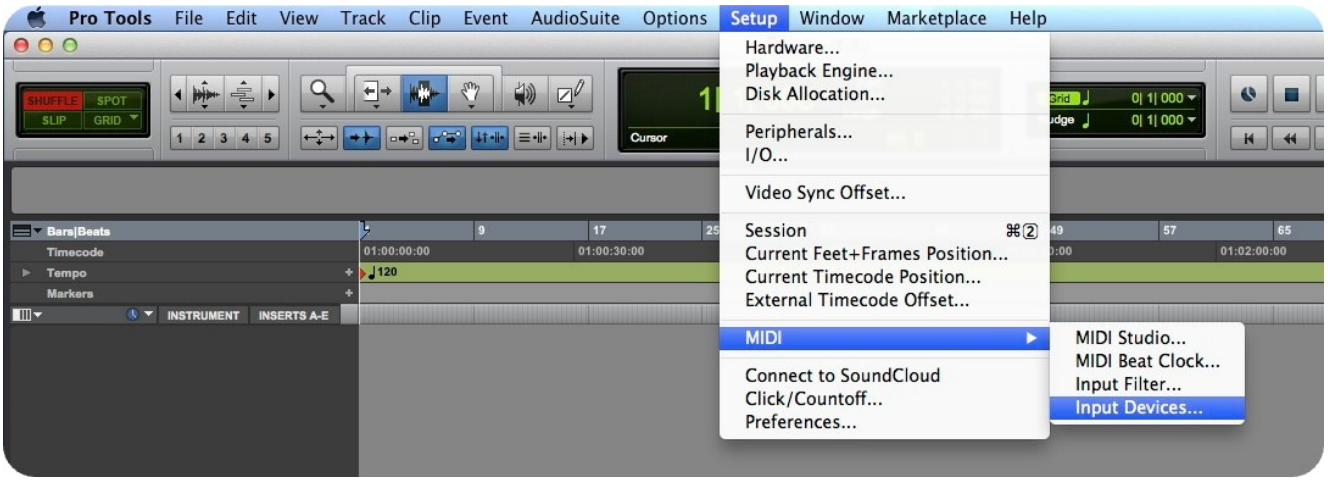
Please make sure that this port is routed to there mote controlled *Vienna Instruments/PRO* instance in your sequencer or DAW (and not to any other instances or instruments), otherwise control data will be interpreted by other instruments as regular MIDI events. This could change the parameters of other virtual instruments unintentionally. If multiple *Vienna Instruments/PRO* tracks are record-enabled, you can remote control multiple Vienna Instruments/PRO instances from your *VI Remote App*.

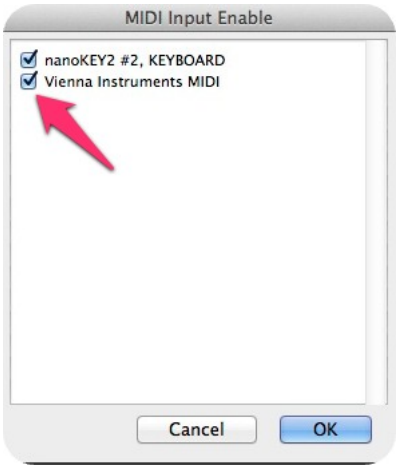
Ideally, the matrices should be set up in a similar way.

> **Important**
>
> To record tablet interaction it is very important to correctly set up routing for the virtual Vienna Instruments MIDI port!

PRO Tools Specific

In Pro Tools, you need to activate the installed virtual *Vienna Instruments* MIDI driverin **Setup => MIDI => Input Devices**:





FAQ

There are a few pitfalls in *Vienna Instruments PRO*... This section lists the questions that popped up often during Beta-Testing.

Q: *Why don't I hear the delays set in the Humanize Area/Section?*

A: Most probably because the global delay slider in the **Perform** Tab of the **Advanced View** is set to "0" by default. Please move this slider to hear the delays.

Q: *Why don't I hear the patches in the "b" area of the slot rack?*

A: The **Slot Xfade Slider** in the **Perform** Tab in the **Advanced View** is the key to this:

- When the Slot Xfade Button between the "a" and "b" slots in the slot rack is **not activated** , the Slot Xfade Slider in the Perform Tab in the Advanced View controls the **volume of the "b" slots**.
- When the Slot Xfade Button is **activated**, the Slot Xfade Slider **crossfades** between two slots.

Q: *Why doesn't the load progress bar show up right away when I load the first patch of an instrument?***A:** When loading the first patch of every *Vienna Instruments* Collection, a quick license check is performed. All the next patches from this *Vienna Instruments* Collection will load right away after this initial quick-check.

If you did not find your question here, feel free to get in touch with our great VSL Forum Community or contact us directly at support@vsl.co.at!

We hope that this introduction to *Vienna Instruments PRO* is a good reference for your first steps with our great new software.

If you're having trouble with certain aspects of *Vienna Instruments Pro*, or just want to make sure, please have a look at our video tutorials:



Watch the video

We wish you a great time with *Vienna Instruments PRO!*

– Your Vienna Symphonic Library Team

Legacy: Vienna Instruments Pro - Version History

Windows 10 and newer
macOS 10.14 and newer

v2.7.157 - August 1st, 2023

Fixed

- Auto-Voice feature was prone to cause crashes
- Copying a Matrix inside of Standalone app could cause a crash
- Tail time not properly reported for reverbs
- Older presets loading without algorithmic reverb enabled
- WIN: Bad scaling of standalone player on scaled displays

Improved

- Performance of MIRx engine

- macOS: Added Native Apple Silicon support

Changed

- Attention macOS: Mojave (10.14) is the new minimum system requirement

v2.6.110 - August 4th, 2022

Fixed

- macOS/Cubase: Conversion of VI / VI Pro elicenser projects was broken (no content was loaded)

Improved

- WIN: Saving speed

v2.6.99 - April 21st, 2022

Fixed

- Could not load VI-Pro exclusive content
- Standalone “Automation” shortcuts and menu not available

v2.6.95 - March 30th, 2022

Fixed

- macOS AU: Vienna Instruments were not loaded/converted reliably when loading old projects

March 17th, 2022

Changed

- Switch from eLicenser to iLok protection
- Attention: All newer versions are iLok only

v2.5.18664 - November 15th, 2021

Fixed

- Mac: Plugin GUI not showing on macOS Monterey

Improved

- General imorovements and stability updates

Changed

- Mac: Minimum macOS version is now 10.13

v2.5.18650 - July 29th, 2021

Fixed

- A crash in Standalone Player on macOS 10.10 and 10.11
- Missing visual studio runtime requirement on some Windows 10 systems
- Matrix list GUI bug when using lots of matrices
- A GUI freeze when adjusting matrix scale root key

v2.5.18641 - February 2nd, 2021

Fixed

- Wrong MIRx instrument matching for English Horn 2
- Wrong MIRx instrument matching for Harmonium
- Bug in venue display for MIRx venues with Retina resolution images

v2.5.18635 - July 6th, 2020

Added

- Feedback dialog upon application crash
- Link to online manuals in plugin header (?-Button)

Fixed

- Standalone crash when selecting audio output drivers only supplying mono channel
- Possible crash on exiting standalone or plugin host application when using latest eLicenser Control Center software
- Bad drawing of border for MIRx venue image in Retina modes

v2.5.18624 - May 25, 2020

Fixed

- Plugin GUI not showing in Digital Performer
- Standalone: Crashing when set to soundcards with less than 2 channels of output
- Standalone: Possible eLicenser crash when closing standalone Vienna Instruments

v2.5.18617 - May 13, 2020

Improved

- Automated crash reports

Fixed

- macOS: Bad looks of Directory Manager and Library Installer in Dark Mode
- macOS Catalina: Crash (or eLicenser message) when applying library updates
- WIN: Plug-in GUI scaling

v2.5.18579 (macOS only) - March 26, 2020

Fixed

- Library Installer did not work properly under macOS 10.15 (Catalina)

v2.5.18579 - March 5, 2020

Added

- Retina/HiDPI support (with 100% and 200% scaling options)
- Automated crash report handling for VI Pro Standalone

Optimized

- Installer sizes

Fixed

- macOS: An issue causing GUI to freeze when using context-menus in Cubase
- macOS: Installer look in macOS dark mode

v2.4.18457 - October 28, 2019

Added

- macOS Catalina Support
- Misc. stability fixes

v2.4.18067 - June 28, 2019

Added

- License support for upcoming products.
- Auto-humanization settings for Historic Winds

v2.4.17960 - May 7, 2019

Added

- Support for matrix name displays in VE Pro 7 articulation field.

v2.4.17930 - May 3, 2019

Fixed

- Key commands (1-8) not working when dragging patches from browser into slots

v2.4.17608 - May 2, 2019

Added

- Compatibility improvements for Vienna Ensemble Pro 7

v2.4.16779 - January 4, 2018

Added

- Legato Blur feature (MIDI CC 33)

Fixed

- GUI behavior problem with disabled cells feature

v2.4.16754 - December 20, 2017

Added

- Synchron Strings support
- Synchronize Control Map Option in Settings
- Support for Synchron Series update files in Directory Manager

Fixed

- Miscellaneous bug fixes and updates

v2.4.16399 - September 27, 2017

Attention: New System requirement macOS 10.10

Added

- Compatibility with macOS 10.13 High Sierra
- License support for future products

v2.4.15962 - May 31, 2017

Fixed

- Streaming thread settings not remembered (in VI PRO Settings)

v2.4.15912 - April 24, 2017

Added

- Feature for synchronizing slot mixer across matrix/preset

Fixed

- Slot context menu action "Matrix: Clear Slot" not working

v2.4.15869 - March 31, 2017

Added

- Support for new library products
- MIRx profile matching for several instruments
- Peak meters

Fixed

- Wrong MIRx preset assignments for several instruments
- AutoHumanize not working for certain presets

v2.4.15551 - December 1, 2016

Fixed

- macOS Sierra Preload settings in Directory Manager not remembered.

Added

- Matrix position MIDI dump functionality using CC in VI PRO Settings.

v2.4.15500 - November 17, 2016

Fixed

- Repetition sometimes not working properly
- An issue with timed release samples

- A rare crash in sample background loading
- Broken web URL (Go PRO)
- MIRx default venue not being properly stored/recalled

Added

- Auto-Guess for Violin 2 and Cello 2

v2.4.14074 - February 3, 2016

Fixed

- Sample RAM sometimes not released properly

Added

- Sorting for MIRx Venues

Improved

- Mixdown performance with Cubase Asio Guard 2

v2.4.13845 - October 1, 2015

Fixed

- Percussion release sample loading range extension exception
- MIDI driver installer compatibility

Updated

- MIRx profile matching for Dimension Brass II

Improved

- Humanize matching for Dimension Brass

v2.4.13670 - February 25, 2015

Improved

- humanization settings for certain instruments

Added

- Instrument Profiles and MIRx-Mode Presets for Vienna Whistler and Vienna Solo Voices (new MIRx Venues need to be installed)
- options to deselect Vienna Ensemble and plugin formats in installer

Fixed

- Crash in standalone when replacing patches with Ctrl-Alt-W (Win) / Command-Alt-W (OS X) command
- Fixed a memory leak
- Windows Issue with installer not working on 32-bit systems

v2.4.13477 - November 25, 2014

Added

- support for >2GB .dat files
- support for new update format

Fixed

- Crash in standalone when using a soundcard with more than 160 audio channels
- VI PRO Remote App updated to support new Android and PC web browsers (invalid screen size fixed)

v2.4.13408 - October 16, 2014

Fixed

- Stand-alone version did not support < 256 channel soundcards

Added

- OS X 10.10 Yosemite compatibility

v2.4.13333 - September 10, 2014

Fixed

- Dimension Basses compatibility troubles
- Crash on ProTools 11 exit with active plug-ins

v2.4.13260 - June 3, 2014

Fixed

- Regression in MIRx, causing some instances not to load the proper impulse

v2.4.13245 (OS X only) - May 27, 2014

Fixed

- OS X Library updater bug (CRC error message)

v2.4.13240 - May 26, 2014

Fixed

- Crash when loading plug-in without eLicenser key attached

v2.4.13209 - May 13, 2014

Fixed

- Rare crash when loading sequencer files
- Crash when running library update with lots of content assigned in Directory Manager
- MIRx: Impulse length problem with samplerates other than 44.1kHz

v2.4.13135 - March 5, 2014

Added

- Trumpet Bb muted profile detection for MIRx

Fixed

- Factory preset loading with reverb set to bypass
- Factory preset MIRx autodetection missing for some presets
- MIRx visual position update when loading matrices with a doubleclick
- Missing display of MIRx presets with dashes in the title

v2.4.12844 - December 6, 2013

Fixed

- Some Vienna Konzerthaus Organ patches were not matched to the correct MIRx impulse
- OS X Rare "installation not allowed, minimum OS version required" problem
- OS X Disabled App Nap for stand-alone instances in OSX 10.9 Mavericks

v2.4.12711 - September 2, 2013

Improved

- MIRx loading speed with startup presets
- Lowered MIRx thread count for large setups

Fixed

- Reverb slider handling on VI PRO Remote App
- Silent output when selecting MIRx without available MIRx impulses
- Crash with active MIRx in a startup preset while rapidly loading many instances
- Slow audio engine starts with MIRx activated
- Startup preset not loading GUI metadata
- Windows Digital Performer 8 sometimes not validating plug-in

v2.4.12535 - August 6, 2013

Fixed

- Presets or projects with activated reverb (ALGO) loaded with reverb set to "None".
- Basic View slider mapping for reverb (ALGO) wet/dry was lost when loading presets or projects with this mapping in place.

- Switching MIRx venues or MIRx latency with MIRx and "Synchronize" on changed venue for all plugins, regardless of their synchronization setting (in MIRx Settings)
- Preset browser sometimes showing no presets available until clicked.

v2.4.12517 - August 1, 2013

Added

- MIRx Reverb Mixing Extensions, see separate manual and VI PRO Manual for details

Optimized

- File handle usage to allow loading of super large setups within Vienna Ensemble Pro (>1 million samples)
- Directory Manager extended to handle future (larger) content update files.

v2.3.12337 - June 26, 2013

Added

- RTAS-AAX migration

v2.3.12334 - June 22, 2013

Added

- Full support for Pro Tools 11 (please note: AAX version now requires ProTools v10.3.5 or later).
- AAX known issues: RTAS plugins will not automatically be converted to AAX-64 plugins.
- Support for Dimension Cellos

Fixed

- Rare GUI crash
- Matrix output 5/6 and 7/8 not working if no other outputs are active

v2.3.12173 - April 17, 2013

Updated

- Auto-humanization entries (some patches were missing auto-humanization information)

Fixed

- Switching between cells while using the auto voice feature can cause strange results.
- Fixed in the Matrix Controller "Interval Map": Interval threshold not being stored/recalled properly.
- Keyboard envelope not updating properly after pasting or loading matrices
- Keyboard envelope values not exactly matching with graph
- Rare crash when loading new patches during playback

v2.3.11989 - February 11, 2013

Added

- Support for "load cells disabled" in Vienna Ensemble PRO 5

v2.3.11896 - December 5, 2012

Fixed

- Transposing low patches outside of keyboard range could cause a crash
- Reverb not controllable with VI PRO Remote App

v2.3.11859 - November 22, 2012

Added

- AAX plug-in version
- VI Pro Remote app and virtual Vienna Instruments MIDI driver (MIDI Dump)
- "Compact cell" context menu option to Matrix / Slot Rack (closes gaps between articulations in cell rows 1 and 2)
- Allow two hosts to run Vienna Instruments Pro on the same machine

Fixed

- Rare hang issue when loading certain patches from updated libraries
- Rare crash when loading large matrices/presets
- Rare crash in keyboard state updates
- Auto-enable cells feature unsynchronized at startup
- Rare volume bug in voice processing

- Switching between matrix cells could cause clicks & pops
- Switching cells with auto-enable cells active could cause a crash

Removed

- OS X Dropped support for OS X 10.5 Leopard

v2.3.11630 - October 4, 2012

Fixed

- Switching between matrix cells could cause clicks & pops

-

Switching cells with auto-enable cells active could cause a crash

v2.3.11515 - September 17, 2012

Added

- Increased number of available slots from 8 to 16
- Optimized wave triggering, reducing peak CPU loads
- Updated abbreviation list for correct cell names
- "Enable Cells on MIDI Activity" option to the Settings menu. Default: Disabled
- possibility to define middle C as C3, C4 or C5 in the Settings Menu. Default: C4
- link-volume function to slot mixer, linking A and B slots volumes
- link-pan function to slot mixer, linking A and B slots pans
- context functions to slot mixer: "Replicate Mixer State (Matrix)" and "Replicate Mixer State (All Matrices)"
- loading progress call for Vienna Ensemble Pro
- APP Sequencer: Added possibility to merge sequences by holding Shift when pressing import/load
- Optimized loading times of patch data roughly 30%
- Clearing a matrix now turns off APP Sequencer
- Changed negation sign in browser search to "!"

Fixed

- Slot mask scaling problem
- Instantiation of plug-ins in several threads can cause lockup
- Sequenced notes do not auto-activate cells
- refresh bug in Directory Manager
- Keyswitch C~ not assignable
- OS X invalid gatekeeper signature issue

v2.2.11242 - August 4, 2012

Fixed

- Problem with volume increase for the first note played after silence
- Installer and applications are now compatible with Gatekeeper in Mountain Lion OS X 10.8

Added

- Realtime tuning sysex support to standalone

v2.2.11091 - July 11, 2012

Added

- Setting for loading legacy presets and projects with monophonic legato (Settings)

Fixed

- Instrument can crash when enabling/disabling built-in reverb
- Upright Bass legato not playing when loaded

v2.2.10738 - May 14, 2012

Fixed

- License Special Edition DVD Installation not working properly
- Keyswitch velocity for Y-axis cannot be selected from Vasic View page
- Meters not resetting when switching between silent instruments in VE/VE Pro

v2.2.10674 - May 9, 2012

Fixed

- Installer now doesn't install 32-bit standalone on 64-bit systems
- Bug in sequencer piano roll updates
- Sequencer stays ON when loading a legacy VI matrix

Improved

- Brightness utility removed, now accessible from settings inside the instrument
- Rewritten sample streaming core, voices are now shared between all instances
- Drastically lowered memory usage per instance
- GUI performance

Added

- engine control settings (see manual)
- unlimited polyphony on bounce (Settings)
- voice and dropout meter to Perform tab

v2.0.10217 - February 22, 2012

Fixed

- GUI performance improvements
- Sustain pedal sometimes behaving improperly
- Some legato patch sustains were improperly timestretched
- Velocity Xfade controller assignment not loading properly.
- Slot Octave/Semitone transpose giving strange results with legato patches
- Disable EQ/Reverb not recalled properly in combination with MIR
- Directory manager did not clear "red" directories after rescan
- Sequence not updated after "load sequence" operation
- Clearing matrix did not remove sequences
- Repeat first note not recalled properly
- Stand-alone crash with certain MIDI Sysex input

Added

- context menu options to enable/disable row/column of matrix
- options for confirm/overwrite preset/matrix

Improved

- project/preset/matrix loading and saving speed
- performance of disk streaming
- CPU usage of inactive instances
- Added Keyswitch Range as controller for Matrix Y-axis.
- Windows Added signing to installer and executables

v2.0.9753 - November 28, 2011

Fixed

- Normalize powerpan not behaving correctly for certain patches
- Library installer not adding installation directory to Directory Manager
- OS X Library installer crashing on ending installation

v2.0.9735 - November 25, 2011

Fixed

- RTAS plugin outputs < 7+8 not working

Added

- Windows Added separate folder install for 32- and 64-bit plugins

v2.0.9687 - November 23, 2011

Fixed

- Powerpan values not updating on copy/paste of cells.
- Sequencer not updating immediately after import of midi file
- Sequencer Import MIDI causing crash

- Auto-Voicing not working
- Normalize Powerpan operations do not update internal slot mixer pan matrix properly
- Directory Manager update format mismatch

Improved

- autonaming of cells
- distribution of auto-voicing feature

v2.0.9624 - November 16, 2011

Added

- Multiple features added in Version 2, see manual for details

v1.1.8778 (OS X 10.5.7 and higher only) - August 23, 2011

Added

- OS X: Library Installer updated to work with OS X 10.7 (Lion)

v1.1.8008 - April 12, 2011

Fixed

- bug causing crash after library updates

Added

- support for new download instruments
- splashscreen to standalone (shows up while scanning licenses on start-up)

v1.1.7846 - March 11, 2011

Fixed

- "Vel.XF" and "Release" On/Off buttons sometimes displayed as ON even if engine status was OFF
- some keypresses (on the computer keyboard) not being recognized properly
- bug causing certain Dimension Brass patches to make audio engine go silent

Improved

- support for MIDI Realtime tuning messages
- OS X Improved loading speed

Added

- support for MIDI Bulk tuning messages
- OS X VST Added Cocoa view for VST 64-bit

v1.1.7644 - January 20, 2011

Fixed

- Loading of certain patches caused eLicenser error messages
- Powerpan pots in slot rack mixer constantly repainting
- Controller mapping list does not update between instances in VEPro
- Timestretched patches produce silent output

v1.1.7516 - December 20, 2010

Fixed

- bug causing auto-voicing setup page not to update properly
- File-Browser now updates on any filesystem event, including saving presets or matrices in other instances.
- small refresh bug in Matrix when using with VE Pro - Audio engine optimizations, about 15-20% lower CPU usage.
- OS X Fixed improper platform detection on mac installer for 64-bit kernel
- OS X Changed location of cache file to proper location

Added

- Added option to auto-scroll matrix list to selection

Improved

- streaming performance
- Optimizations to project/patch loading speeds, especially for SSD drives

- Linked cell position of matrixes with same dimensions

v1.1.7349 - November 23, 2010

Fixed

- unclear naming in Pro Tools 9 insert slots
- occasional latent clicks in release samples
- Library Updates are now made through directory manager (by dragging a file on top of directory list)
- hang when loading a time-stretched patch
- Prevent abrupt volume jump when switching cells with different velocity curve in VelXF mode
- Display current played repetition
- Allow manual entry to integer spin boxes
- Matrix Keyswitch Entry is allowed
- Legacy VI presets will now load with 64 polyphony for consistency
- Correct restoring of panning with matrix preset
- lack of looping playback on several patches
- incorrect Just Intonation scale values
- OS X Ctrl-click not working as right click in Cocoa AU view

Added

- ability to disable tooltips (version info menu)
- Copy/Paste/Reset for master filter settings
- Copy/Paste/Reset for mixer parameters
- Copy/Paste/Reset for keyboard curve and range
- Copy/Paste/Clear for Humanize Settings

Removed

- manual and download manager from installation procedure

v1.1.7043 - September 24, 2010

Added

- backwards compatibility for Directory Manager

Fixed

- repetition problem for selected patches with more than 12 repetitions in VI PRO

v1.0.7030 - September 23, 2010

Fixed

- audio burst/silence when playing a note before any previous processing occurred
- Added ability to change custom data folder
- All Directory Manager settings are now per-user
- incorrect displaying of loaded waves count
- crashes when hosted in Notion
- Humanize Preset name not being preserved when copying a slot
- Program changes over 100 are now interpreted correctly.
- OS X Fixed right click or Ctrl-click not working in RTAS

v1.0.6853 - August 28, 2010

Fixed

- internal state of powerpan not properly restoring on preset load (Slot Mixer Tab)
- OS X right click or Ctrl-click not working in RTAS
- Windows Fixed crashes on Windows XP32 and Win XP64. Win XP64 is not actively supported, but works.

v1.0.6844 - August 25, 2010

Added

- Vienna Instruments PRO Brightness application that lets you adjust the contrast of VI PRO

Fixed

- looping patches cutting off abruptly in some circumstances
- Delete key printing a "turtle" character in VI Pro editor
- Windows Showing proper build revision in installer and application name
- Windows Fixed RTAS version not working on some Pro Tools configurations page