

Vienna
Symphonic
Library

Vienna Instruments

Manual

Contents

Introduction 3

Installation - eLicenser Legacy 5

Basic Operations 9

Basic View 11

Advanced View 14

Matrix List / Matrix View 18

Slot Rack 24

Perform Tab 27

Controller Map Tab 28

Reverb Tab 30

Options Tab 33

Standalone 35

Remote Control App for Tablets 36

Support, Questions, Videos, Forum... 48

Introduction

We have included quite some features we originally introduced with Vienna Instruments PRO to this new face-lifted incarnation of our standard sample player, making it more powerful and economic at the same time; but most of all, it brings the technology "under the hood" to a whole new level.



Watch the video

Auto Cell Naming provides both automatic and manual naming of Matrix cells, so you get an instant visual feedback of the available and performed articulations. Dragging a new patch into a cell or a slot will automatically give the cell a more descriptive name.

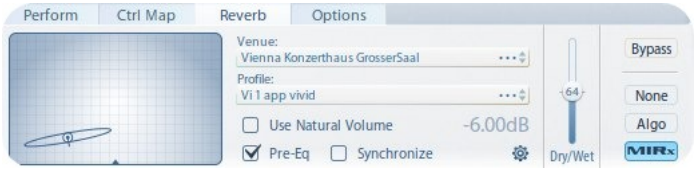


Reduced memory usage per instance, **optimized voice sharing** between all instances and **enhanced GUI performance** have been implemented by our developer team. **Colored Key-switches** are now also visible on your virtual keyboard, just as the key-range!



> **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!



Use *Vienna Instruments* as a standalone software or **VST/AU/AAX** plug-in, **32-bit** and **64-bit**. Vienna Ensemble, installed alongside Vienna Instruments now, can also be used as a VST3 plug-in. This manual presents all new elements integrated in Vienna Instruments on a technical level and is designed to be your reference guide in addition to the many video tutorials you will find online.

About Vienna Instruments

The main object was to get a tool which could handle not only all the articulations, but also our special Interval and Repetition Performances without the user having to take care about delay compensation, octave offset, and such things. Moreover, you should be able to use one MIDI track per instrument – after all, a violinist doesn't have to switch to another fiddle to play legato, either.
The first problem was solved by implementing performance detection algorithms on the Patch level. It doesn't matter now whether you're using single notes with or without alternating capabilities, legatos, or repetitions; it's load and play. Vienna Instruments takes care of numbers and calculations because the Patches communicate their requirements or "rules" to the player.
Patches are fine, but how to combine them? The decision was in favor of a Matrix approach. A Matrix is a two-dimensional (in this case) array of cells in which Patches can be stored. Every Patch in the Matrix has its distinct position defined by its horizontal and vertical Cell count, so that each Patch/Cell can be called up by a combination of two controllers. You can build up and streamline your own Matrices to fit your needs.
But there still was one more step to go, because in spite of its ability to command up to 144 Patches, a Matrix only has those two controllers – and one might need different controllers for special tasks. For example, our new speed control algorithm is good for switching between different repetition articulations but doesn't make much sense when you simply want to change from vibrato to a non-vibrato articulation...
So the third, and highest level of instrument integration is the Preset, where you can combine Matrices and activate them via keyswitches. A Preset can hold 12 Matrices. That alone would make 1728 articulations available to a single MIDI track – if there weren't some other goodies you'll learn about presently.

About Vienna Ensemble

Vienna Ensemble is **automatically installed with Vienna Instruments** and lets you load multiple instances of Vienna Synchron Player, Vienna Instruments, Vienna Instruments PRO and Vienna Imperial! It allows you to configure audio busses as well as insert and send effects (AU & VST/OS X and VST/WIN) for each loaded instrument. You can save your custom Projects for complete orchestral setups, making it much easier to configure your virtual orchestra.

Vienna Ensemble PRO, Vienna Instruments PRO

Vienna Ensemble PRO incorporates the first all-in-one MIDI and audio LAN solution that works universally on Macs and PCs. All you need to integrate a slave computer over LAN is a working Gigabit connection, no soundcard or MIDI Interface is needed on your Vienna Ensemble Slave Computer! **Vienna Instruments PRO** opens up new dimensions for the art of virtual orchestration! With innovations like Humanize, Enveloped Time Stretching and our APP Sequencer you are entering a new level of virtual rality, with all the little details that make music what it is.
And we have even more in store for you!
Get a free Demo version of new Vienna Software.

Installation - eLicenser Legacy

Registration

Situation 1 (with Activation Codes): In case **you have received an email with Activation Codes**, your purchased products are already registered and assigned to your account (your products were registered at purchase online or in your music-store).
You don't need to register any Serial Numbers! Simply paste the **Activation Code(s)** into the eLicenser Control Center to download your permanent licenses (click "Enter Activation Code" in the upper left corner of the eLCC User Interface). **Situation 2**: You have received a Serial Number from your dealer. In this case, please register this Serial Number in MyVSL. You will see your Activation Code immediately; an e-mail containing this code will be sent to you as a backup.

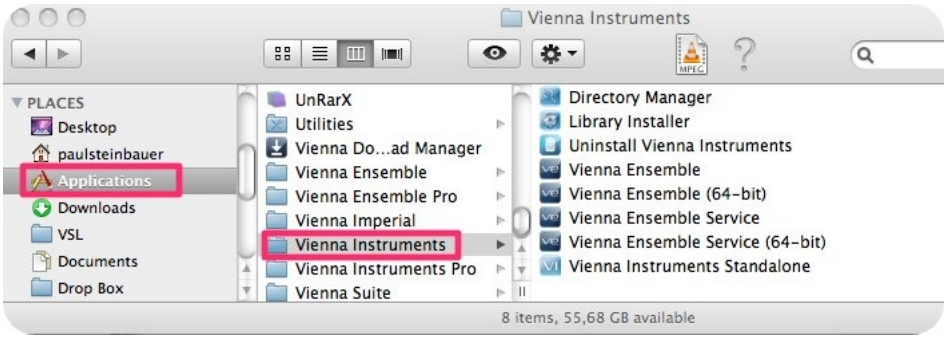
> **Important**
>
> If you haven't done so already, please use these Activation Codes to download your license(s) as described in the chapter eLicenser Control Center below. You need an internet access to download your license(s).

You will download and install your Download Instruments with the help of the Vienna Download Manager, available in MyDownloads.
We have prepared Video Tutorials showing the registration and installation routine on screen; you can find them at our website's Quick Start Guides. Moreover, Video Tutorials are available which highlight the features of your Vienna Software!

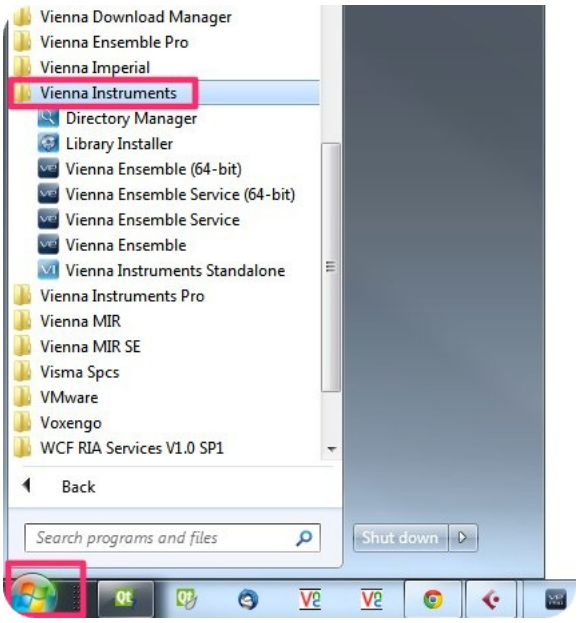
Installed Programs and Files

Vienna Instruments comes with quite a few additional files that will be installed in the Programs/ Application Folder. *Vienna Instruments Standalone* is explained later in this manual, the *Vienna Instruments Uninstaller* on OS X can be used if you'd like to roll back to an earlier version.

OS X:

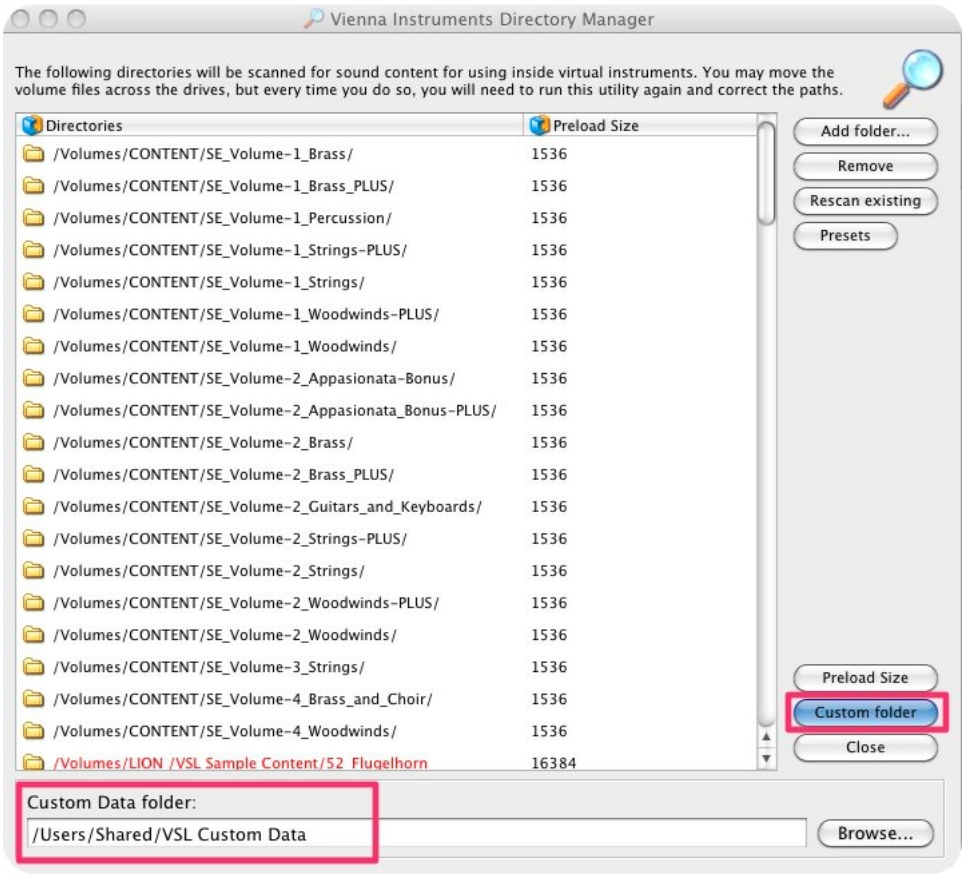


WIN:



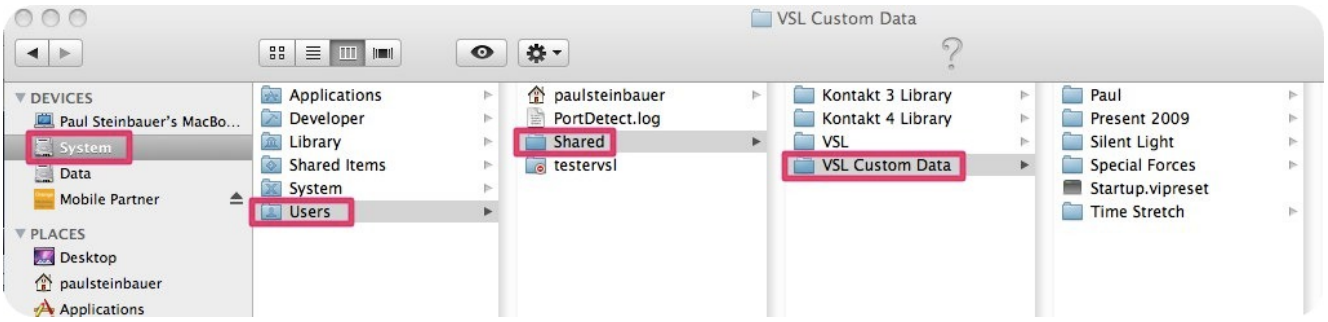
Directory Manager

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*. Your Sample Content is assigned automatically when you install a new *Vienna Instruments* Collection. The **Custom Data Folder** that contains all your customized presets and matrices can easily be assigned to a location of your choice:

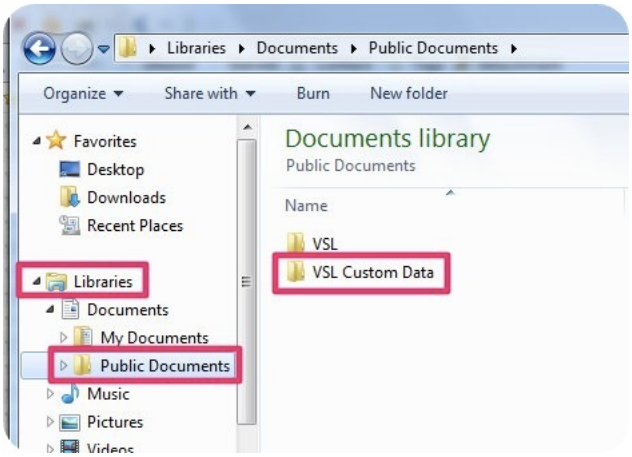


It is located in the following locations by default. This location will avoid any permission problems.

OS X:



Win 7 & Win 8:



Library Installer (LEGACY eLicenser only)

The Vienna Instruments *Library Installer* takes care of the installation of your **Vienna Instruments DVD Collections** , your **Download Instruments** and the **MIR PRO Roompacks**. Start the *Vienna Instruments Library Installer*, point it to the "package.info" file on your DVD #1 and you will be guided through the installation process.

> **Tip**
> DOWNLOAD INSTRUMENTS: The *Vienna Download Manager,* takes care of the installation automatically.

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
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

Basic Operations

Startup Preset



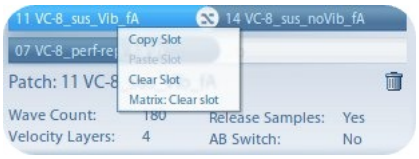
Take your time to find the right way to control all assignable parameters in *Vienna Instruments PRO*. There are many MIDI utilities that will make your musical performance more intuitive, from breath controllers over MIDI pedals to MIDI sliders and touch screen applications that generate MIDI CC data. 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.

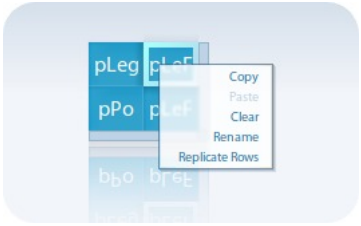
Context Menus

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.

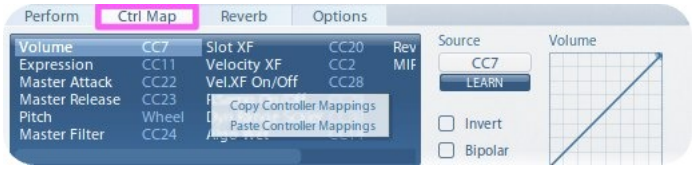


- **Copy and paste** offers an easy way to transfer all settings to other matrices, patches or slots, be it in the same instance of *Vienna Instruments* or in another instance!





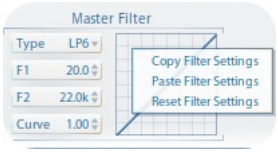
- The same applies to the **Controller Mappings**: Right-click anywhere in the **Controller Mappings** window in the **Advanced View** and copy/paste all mappings to another instance.

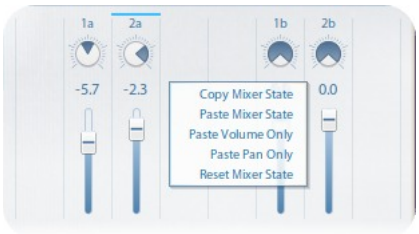


The **Realtime Controller Area** in the **Basic View** contains the same settings as the **Controller Map** page, and you can also copy/paste all mappings here.



You can also copy, paste and reset the master **filter settings**, the same is true for the **mixer parameters**, with additional parameters (Volume only, Pan only):





Basic View

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! 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.

> **Tip**
>
> The **Scale** Button lets you adjust the size of the GUI to 100% and 200%. A useful feature for everybody working on high resolution screens!



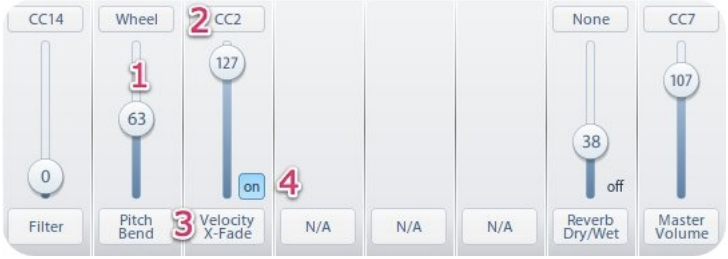
Real-Time Controller Area

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**:

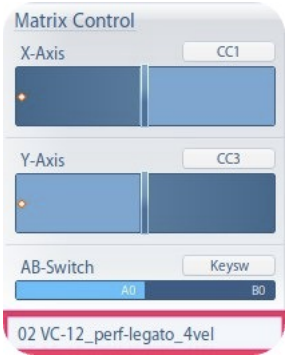
- Shows all available real-time controllable parameters.
- Click-drag to select parameter to control from the current strip.

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.

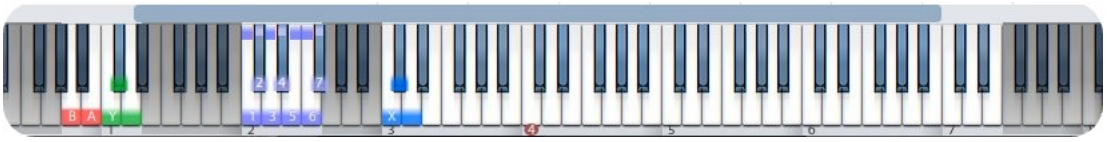
Current Patch Display

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 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:

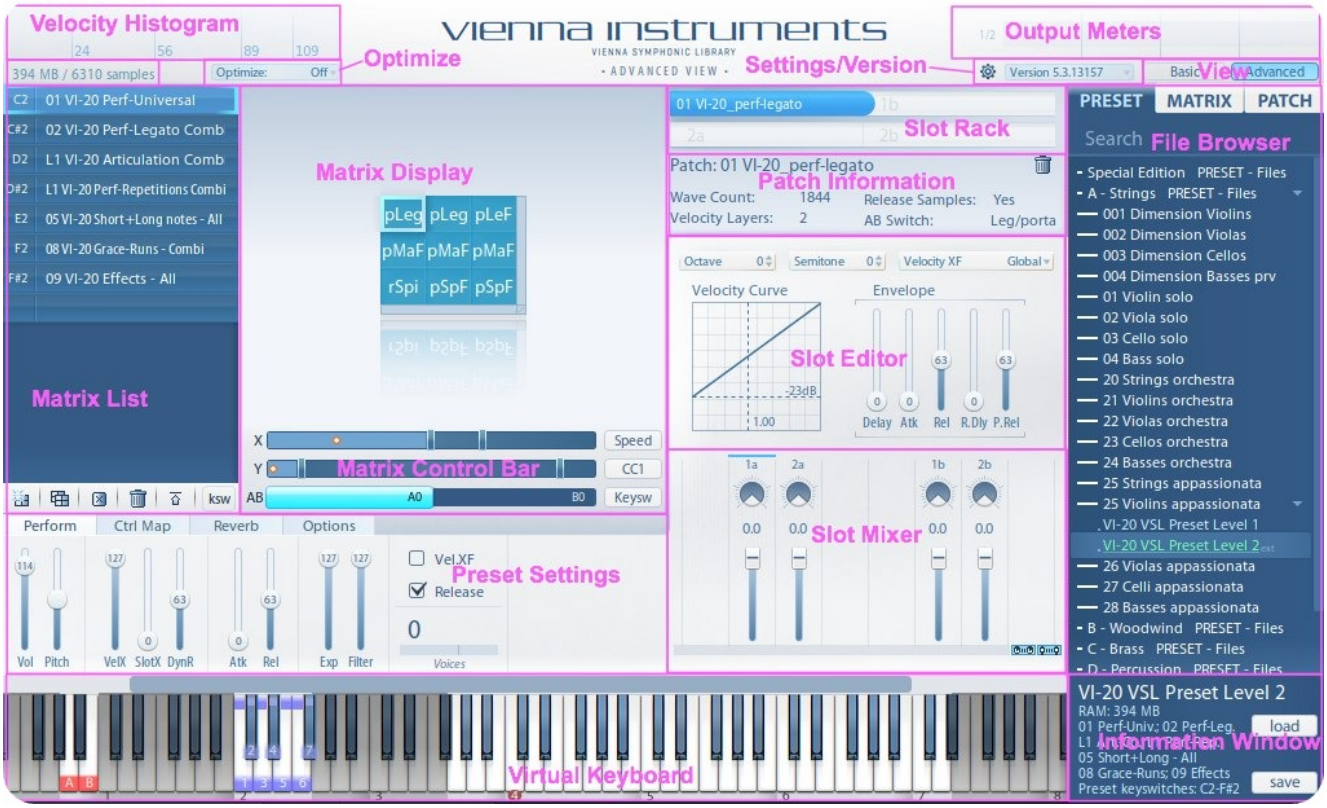
The **A/B** Key Switches are **red** (labeled "A, B"). Key Switches for **the Horizontal X-Axis** of the Matrix Control Bar are **blue** (labeled "X"). Key Switches for the **Vertical Y-Axis** of the Matrix Control Bar are **light green** (labeled"Y"). **Matrix Key Switches** are **purple** (labeled "1-12").



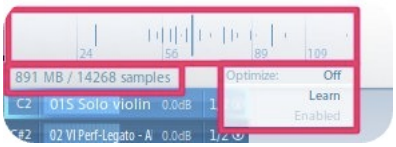
> **Tip**
>
> In case two Key Switches are on the very same key, a striped diagonal pattern will be displayed on this key.

Advanced View

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.

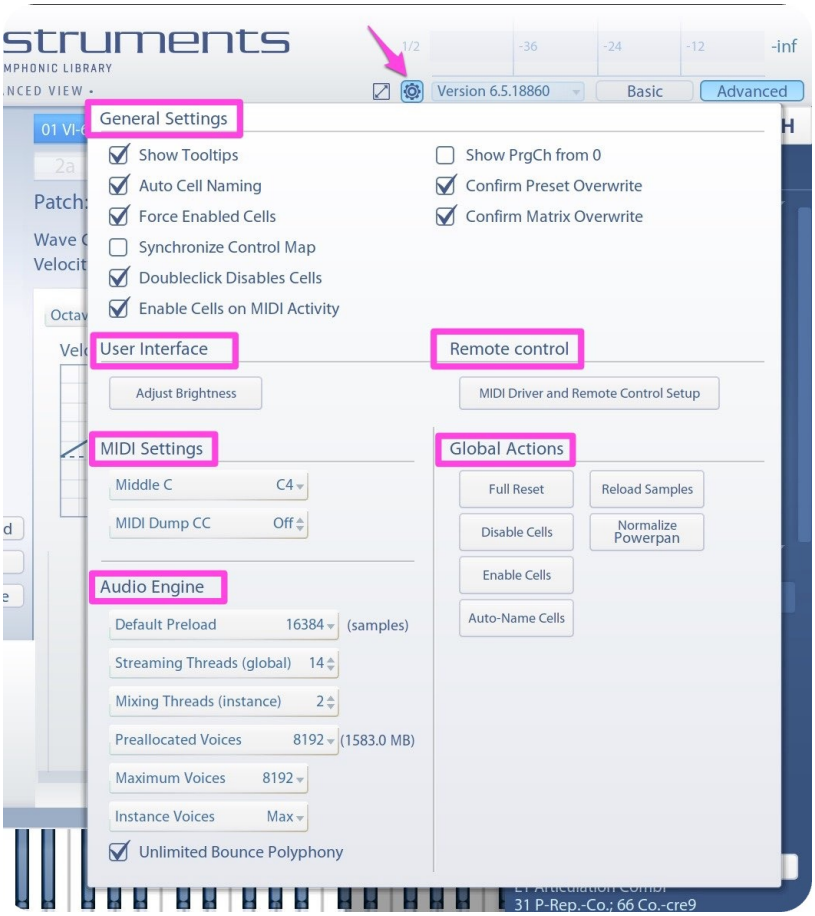


The **Velocity Histogram** in the upper left corner of *Vienna Instruments PRO* shows the received velocity of every key you play on your keyboard – a nice way to monitor your playing. 24, 56, 89 and 109 are the most common velocity split points of *Vienna Instruments* sample collections.



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* instance is displayed by the **Output Meters** in the upper right corner.

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. **Force Enabled Cells**: Loads all cells enabled, when a preset or matrix was saved with disabled cells. OFF by default.
4. **Synchronize Control Map**: When enabled, all Controller Mappings and the Real-Time Controller Area of all Vienna Instruments instances system-wide are synchronized whenever a parameter is changed.
5. **Double-click Disables Cells**: When disabled, cells can only be disabled via the context menus. ON by default.
6. **Enable Cells on MIDI Activity**: When enabled, disabled cells will load in the background when triggered by MIDI Notes. Default: Disabled
7. **Show PrgCh from 0**: When enabled, Program Changes start at "0". Disabled, they start at "1". OFF by default.
8. **Confirm Preset Overwrite**: Confirmation Question before overwriting Preset. ON by default.
9. **Confirm Matrix Overwrite**: Confirmation Question before overwriting Matrix. ON 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.

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. **Reload Samples**: Reloads all samples of an instance (can be useful for debugging WIN or OS X memory handling).
6. **Normalize Powerpan**: Scales powerpan settings for the entire instrument. Resulting powerpan settings will be spread over the entire stereo panorama.

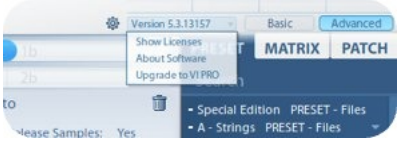
About streaming threads and mixing threads

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.



- **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

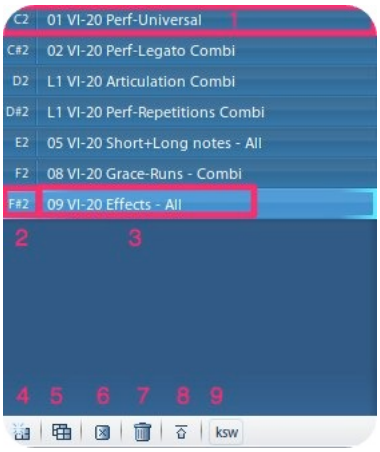
You can also change between **Basic View**, **Advanced View.** Clicking on Basic View / Advanced View below the *Vienna Instruments* logo also changes between Basic / Advanced View.



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



Matrix List / Matrix View



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**:

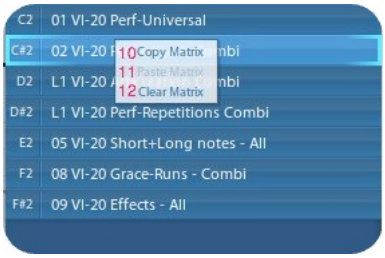
- Click-drag to set value.
- Double-click to edit, enter to accept.

- 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. **Add**: Adds a new matrix at the end of the list.
5. **Copy**: Copies current matrix and inserts it after current matrix.
6. **Clear**: Clears all settings from current matrix
7. **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.



10. **Copy Matrix**: Copies selected matrix.
11. **Paste Matrix**: Pastes a copied matrix to current.
12. **Clear Matrix**: Clears selected Matrix



13. **Matrix View**:

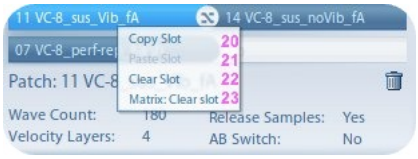
- Resize matrix by dragging borders or corners.
- Resize operation that would cause loaded cells to be deleted produces verification dialog.
- Dragging & dropping a matrix from browser onto matrix area will replace current matrix with the dragged one.
- Drag & drop a patch from browser onto cell to load 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.

14. **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.



15. **Copy**: Copies selected cell.

16. **Paste**: Pastes a selected cell to current.

17. **Clear**: Clears selected cell.

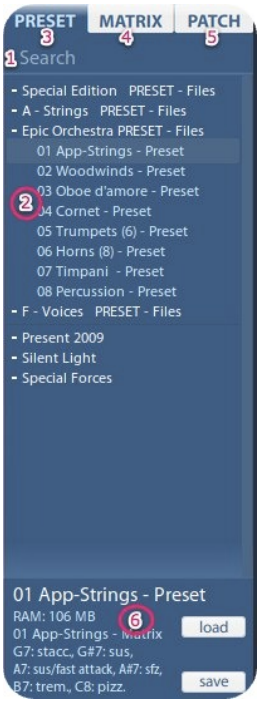
18. **Rename**: Sets a custom name for cell.

19. **Replicate Rows**: Replicates the first row of cells to all other rows

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.

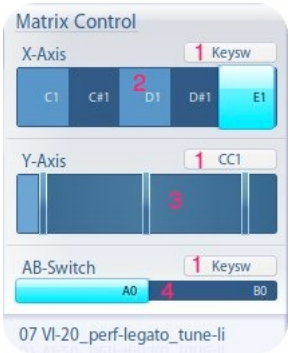
6. **Information Window**:

- 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.

Overview:



X-Axis Controllers:



Y-Axis Controllers:



1. **Control menu**: Sets controller type for corresponding axis / AB control.
2. **Control Bar (X-Axis)**: Shows different controls depending on control menu setting.
3. **Control Bar (Y-Axis)**: Shows different controls depending on control menu setting.
4. **Control Bar (AB)**: Shows different controls depending on control menu setting.
5. **Control Change**:

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

6. **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.

7. **Pitch Wheel**:

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

8. **Speed**:

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

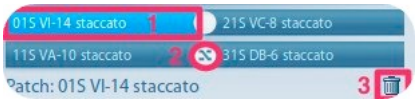
9. **Velocity**:

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

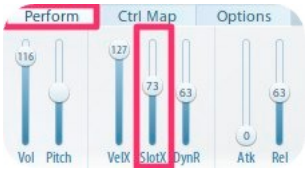
Slot Rack

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.



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. **Trash-can**: Clears selected slot.

Slot Editor

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**:

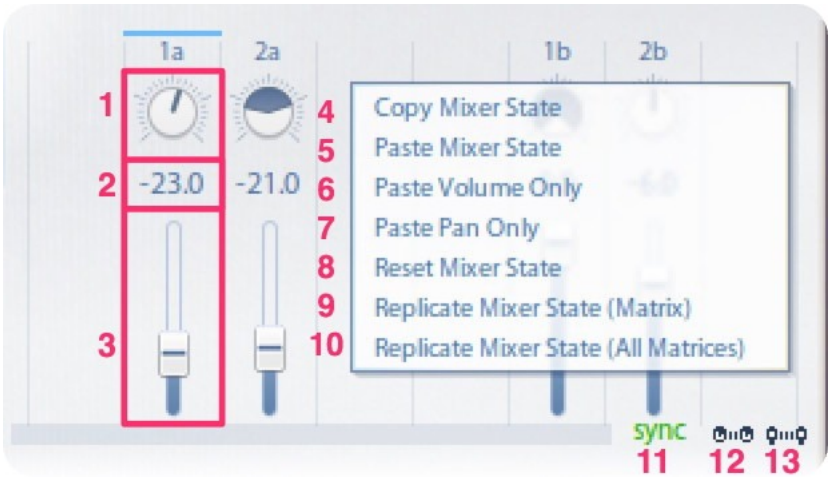
- Click-drag to set value.
- Adds a delay after letting go of the note (note-off).

9. **Overlap**:

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

Slot 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

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. **Attack Scaler**: Scales slot and patch attack values.
7. **Release Scaler**: Scales slot and patch release values.
8. **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.
9. **Expression**: Sets master expression volume.
10. **Master Filter**: Sets master filter frequency.
11. **Velocity Xfade**: Enables global velocity crossfade.
12. **Play Release**: Enables playback of release samples.
13. **Voices**: Displays the currently played amount of voices.
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.

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:

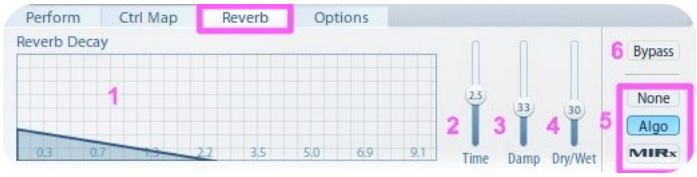
- Volume: CC7
- Expression: CC11
- Master Attack: CC22
- Master Release: CC23
- Legato Blur: CC33
- Pitch: Wheel
- Master Filter: CC24
- Slot XF: CC20
- Velocity XF: CC2
- Velocity XF On/Off: CC28
- RSamp On/Off: CC29
- Dynamics Scaler: CC30
- Start Scaler: CC21
- Reverb Wet: CC14
- Reverb On/Off: CC15

1. **Scroll Bar**: Click-drag left/right to move through the controller list.
2. **Source Menu**: Click to select the source controller for the selected parameter.
3. **Learn**: Click to activate MIDI learn for the selected parameter.
4. **Invert**: Click to enable an inverse transfer curve.
5. **Bipolar**: Click to enable a bipolar curve.
6. **Controller Curve**: Click and drag to change the controller curve function.
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.

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

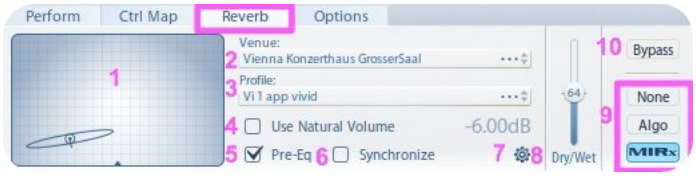
5. **Reverb Selection**: Switches between None/Algorithmic/MIRx Reverb

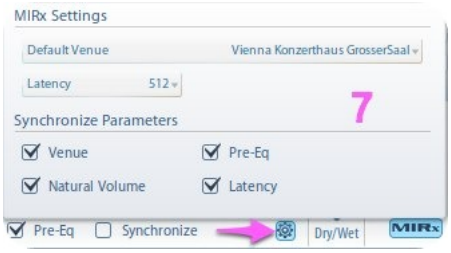
6. **Bypass**: Bypasses the selected Reverb Type

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* 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. **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.

6. **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.)

7. **Master Filter Type**:

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

8. **Master filter Freq 1**:

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

9. **Master filter Freq 2**:

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

10. **Master filter Curve**:

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

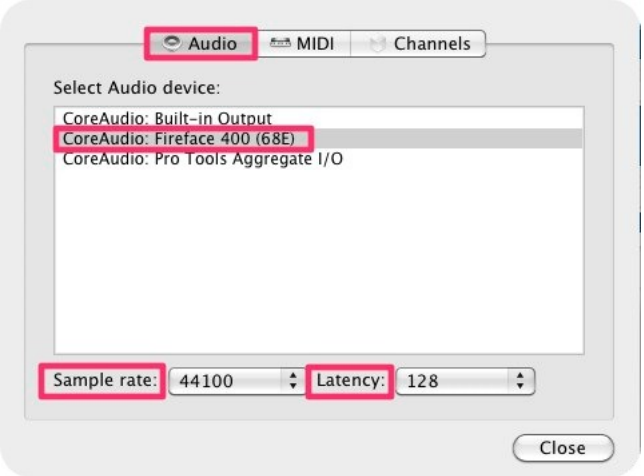
11. **Filter Curve View**: Click-drag anywhere to change filter curve.
12. **Mic Delay Scaler**: Only available for Synchron Series ROOM-MIX Presets: Inserts runtime-delay on the ROOM-Mix slots. Default: 100 (equals 18 ms for Synchron Strings ROOM-Mix Presets).
13. **MIDI Dump** (also below Matrix List 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.

Standalone

You can also use *Vienna Instruments* 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*.

Preferences

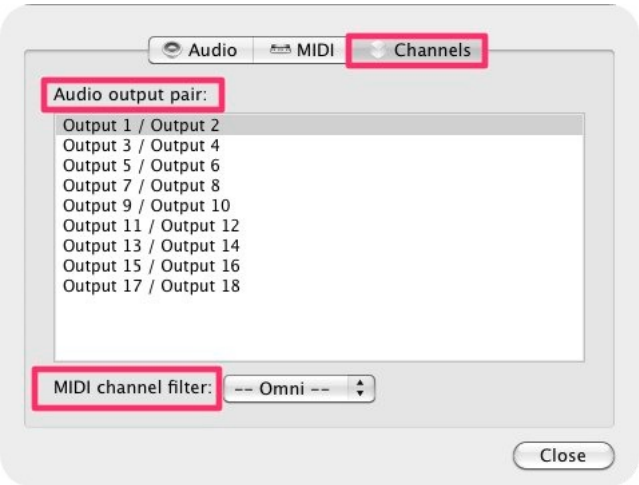
The **Audio** tab lets you choose your preferred soundcard. You can set the **Sample Rate** and **Latency**, **Panel** opens the settings panel of your soundcard.



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



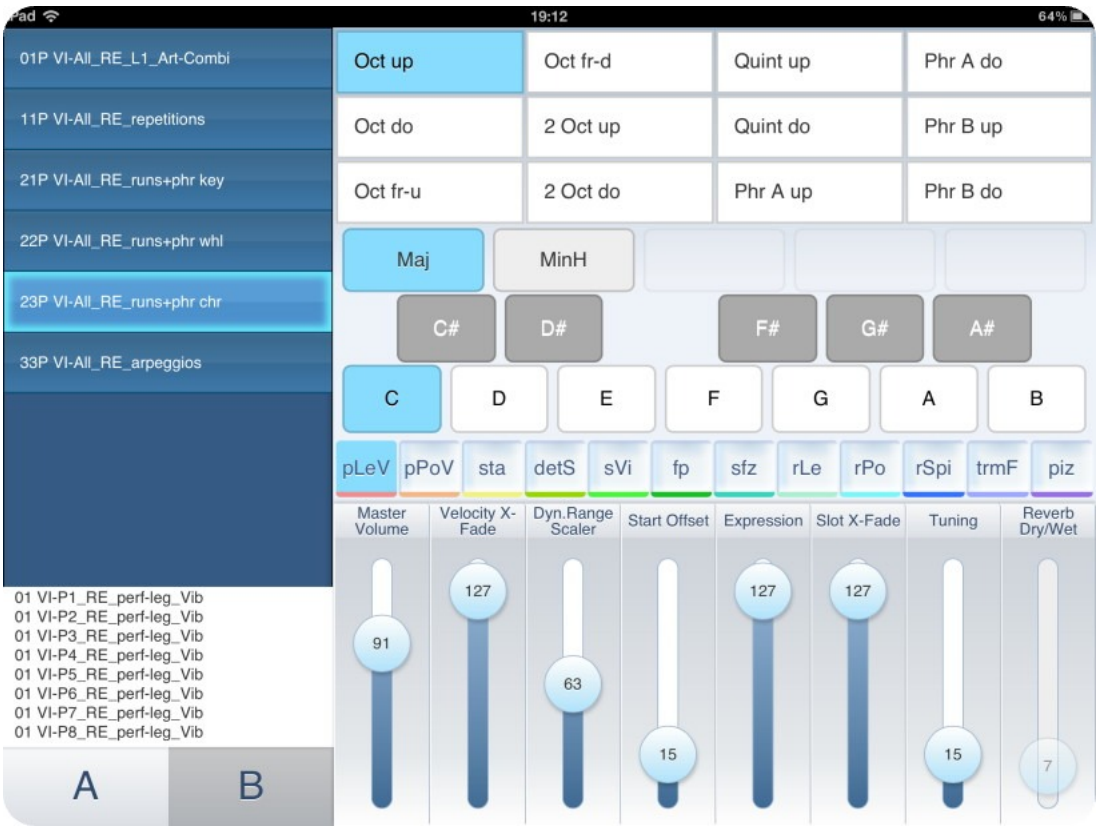
The **Channels** tab lets you assign the audio output pair, depending on your selected soundcard. The **MIDI channel filter** lets you block any MIDI signals from other channels than the ones assigned here.



Remote Control App for Tablets





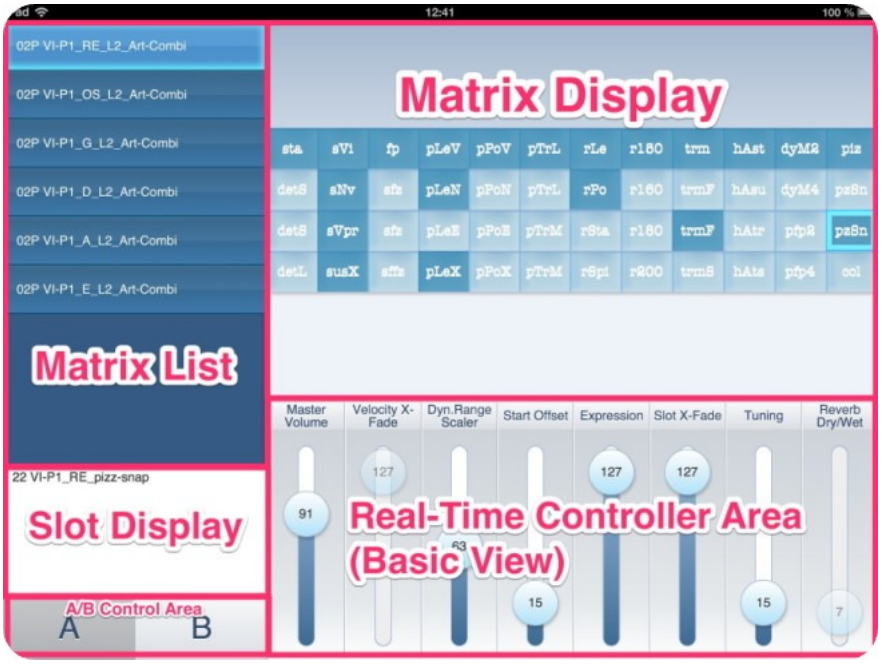


System Requirements

- **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.

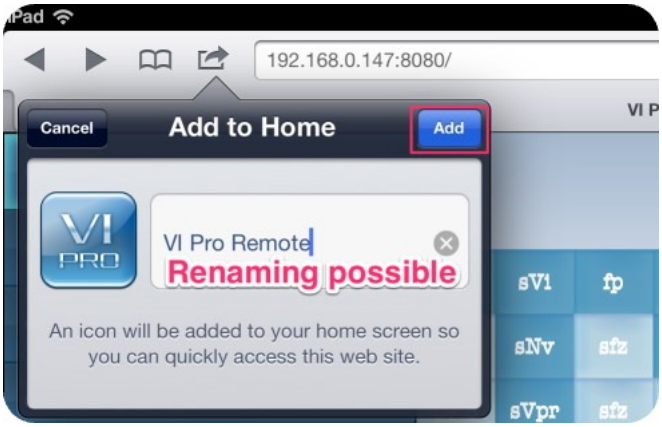
If none of the addresses work, please ensure that the audio workstation computer and your tablet share at least one common network.

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

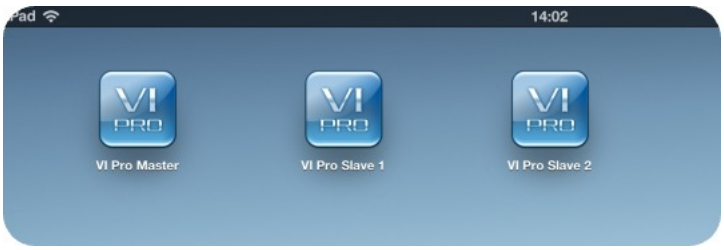
8. Click the **Add Bookmark** button on your browser and choose **Add to Home Screen**.





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

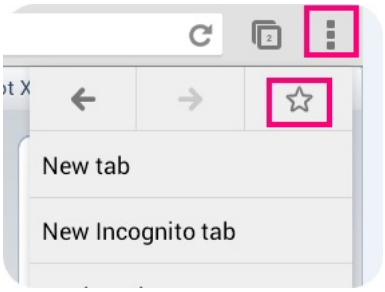
1. Click the Settings

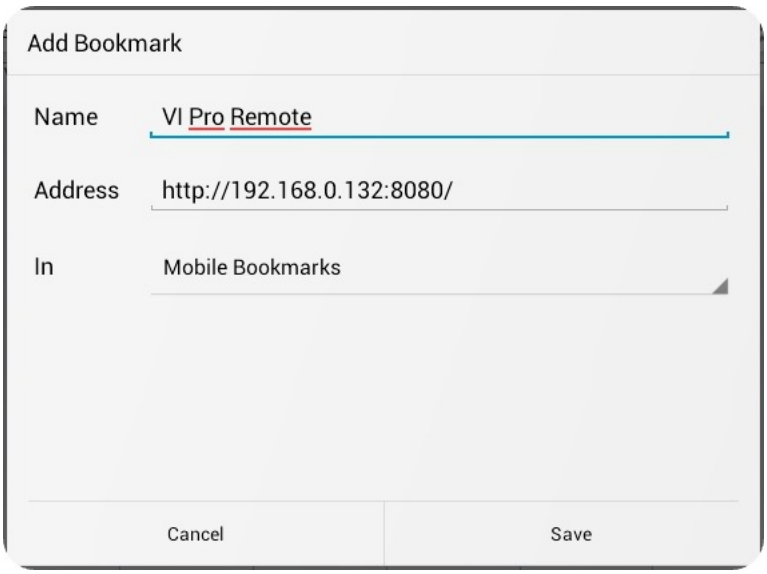
   button in the top right corner of Chrome browser and from the popup menu choose the star icon

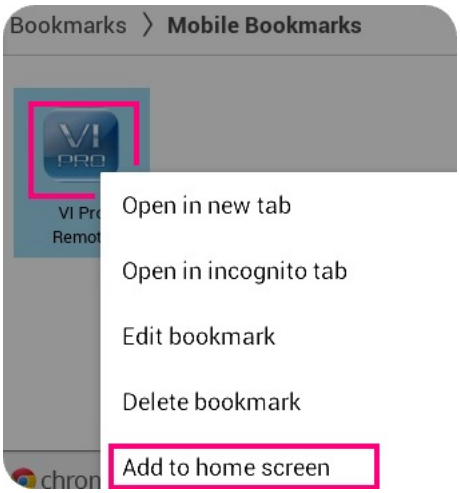
   to add a bookmark:



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**

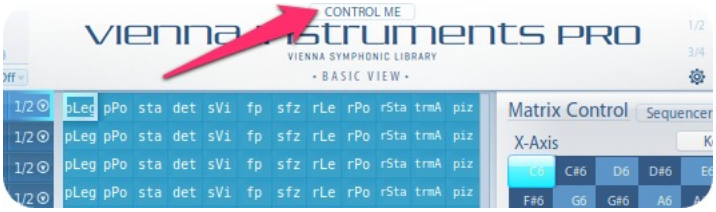
web address.

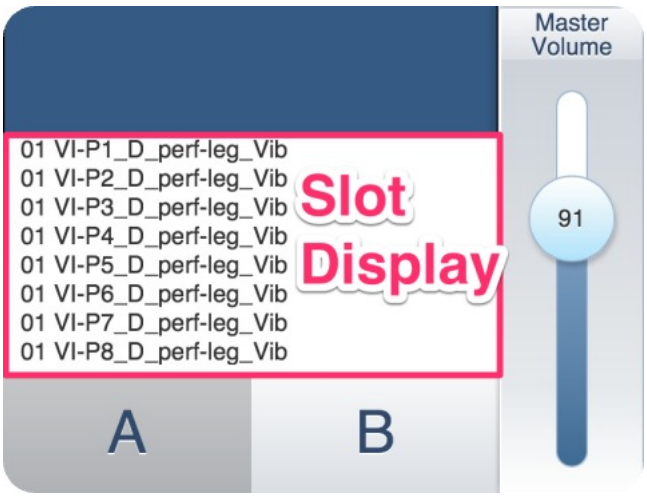
Communication with Vienna Instruments/PRO

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.



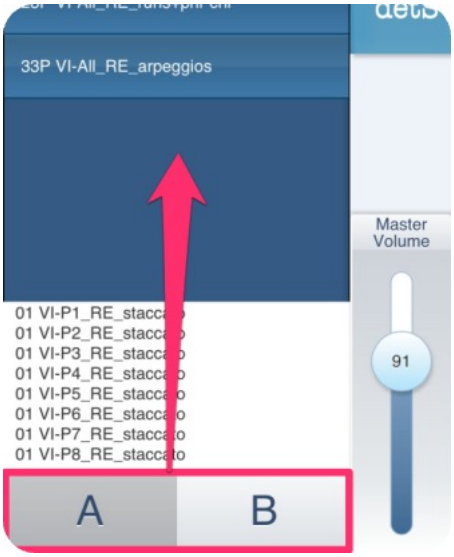
To remote control another instance, click **Control Me**.



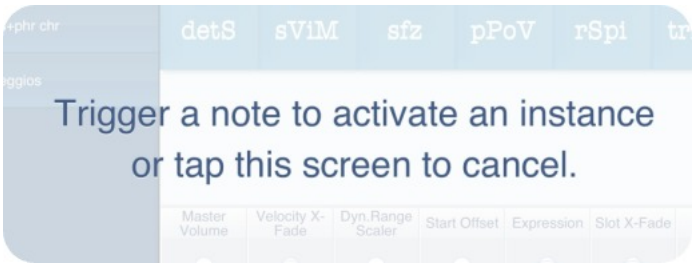


The articulations loaded into the slot rack of the selected cell are displayed in the Slot Display above the A/B Control Area.

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.



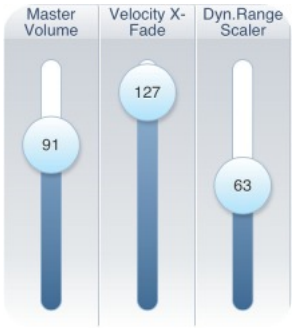
All actions in your *VI PRO Remote App* will be recorded on your **selected MIDI Channel** (see page 10 for details).

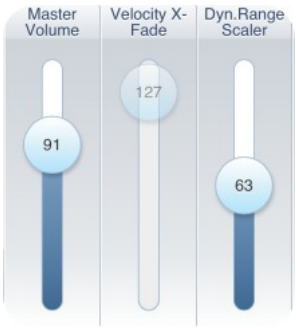
Make sure that this record-enabled MIDI channel corresponds with the remote controlled Vienna Instruments PRO instance.

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.

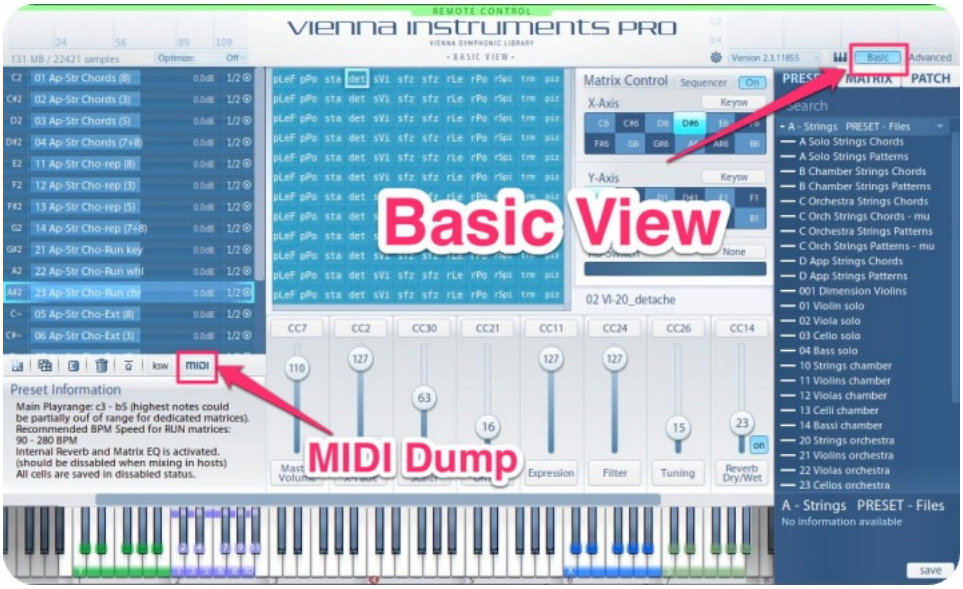


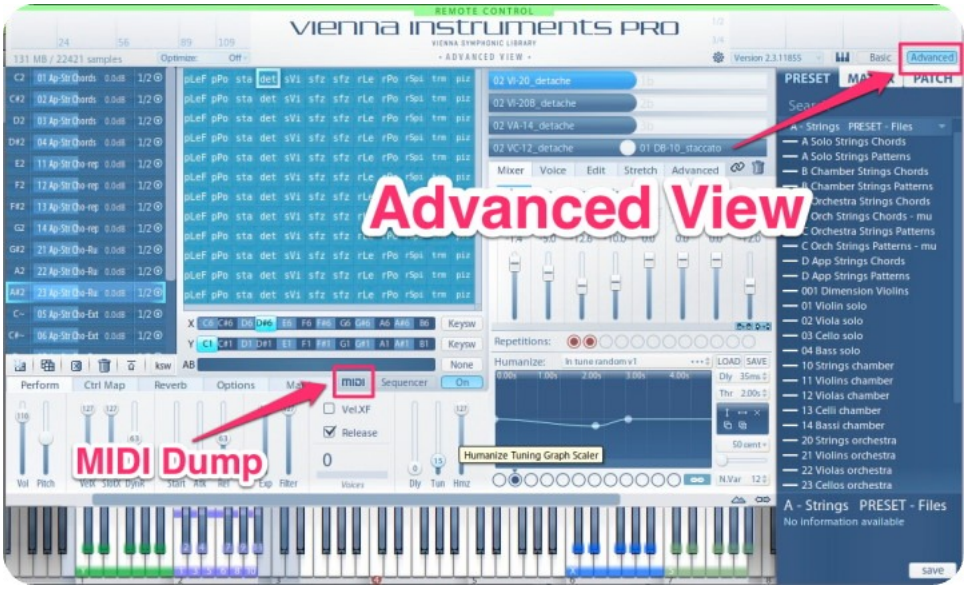


MIDI Dump

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).

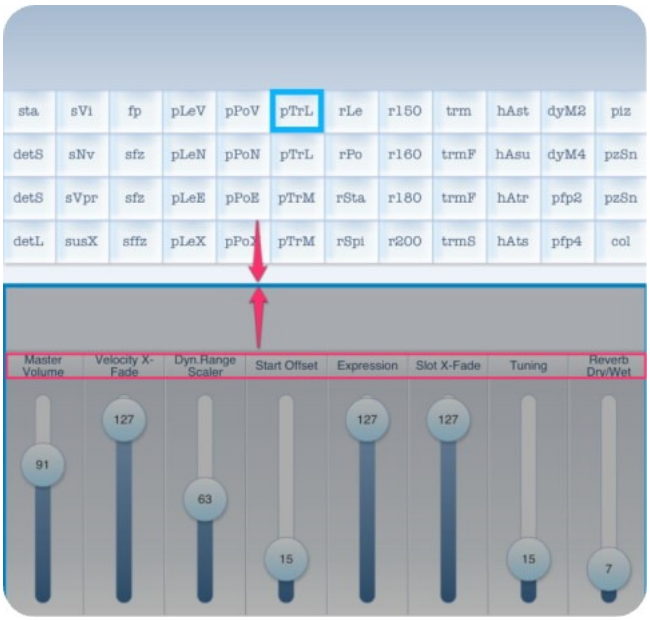


> **Note**
>
> **Android devices**: Sometimes the left-swipe-drag action can be reserved for switching tabs in the browser.

> **Tip**
>
> To prevent the browser from switching tabs during left-swipe drag action, hold a second finger

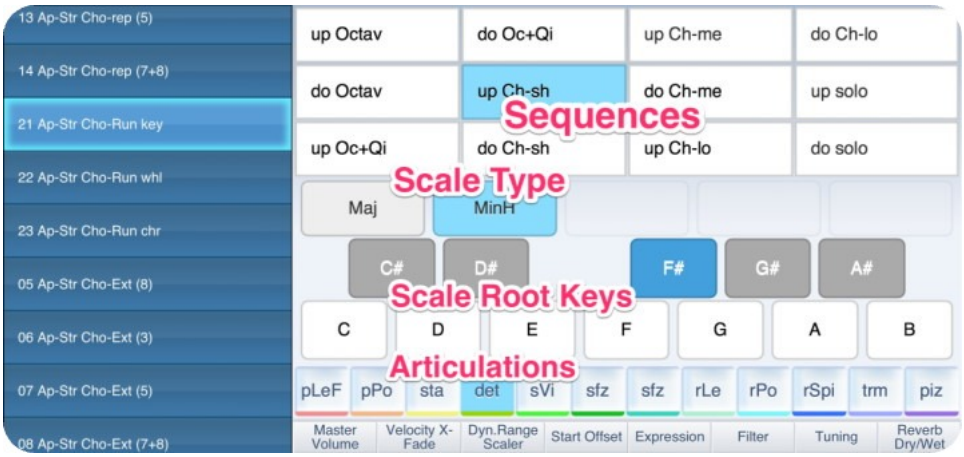
somewhere else on the screen for a short time (i.e. slider pane or matrix) at the same times when the swiping finger crosses the screen edge.

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.

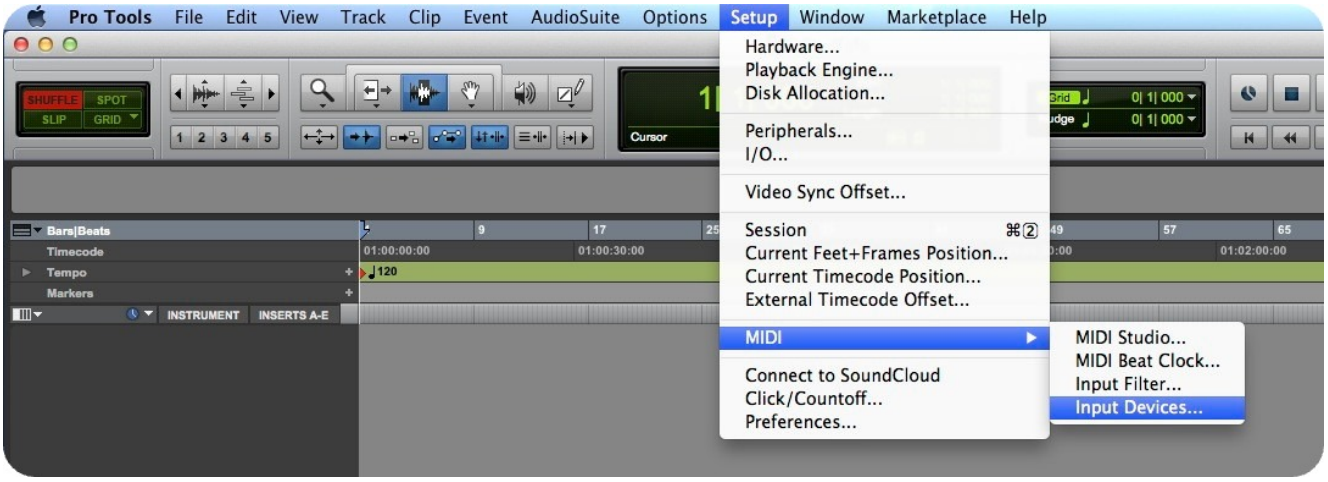
Please make sure that this port is routed to there mote controlled *Vienna Instruments/PRO* instance in your sequencer or DAW (and not to any other instances or instruments), otherwise control data will be interpreted by other instruments as regular MIDI events. This could change the parameters of other 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*.

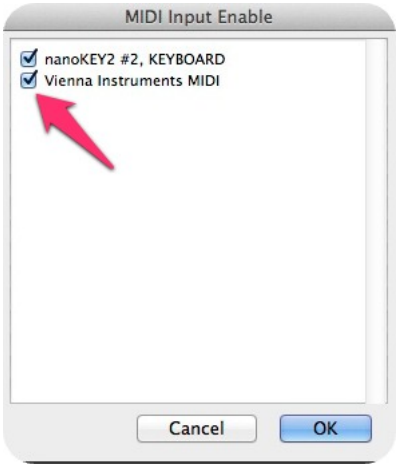
Ideally, the matrices should be set up in a similar way.

> **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**:





Support, Questions, Videos, Forum...

We hope that this introduction to *Vienna Instruments* is a good reference for your first steps with our great new software. If you're having trouble with certain aspects of *Vienna Instruments* , 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!*

– Your Vienna Symphonic Library Team