

## HOW TO DOWNLOAD & INSTALL

Click here for in depth online install guide



## 01. Get the Pulse app

Pulse is a fantastic app that makes it easy to download.

Simply go to <u>pulsedownloader.com</u> and click on the download button.

Pulse is free to use and works on both PC and Mac.

## 02. Get the Bohemian Cello Plug-in

Open the Pulse app.

Click on Add a Product, enter the code which you can find in your Pulse confirmation email.

Select Redeem.

Choose a folder to which you would like the installer to download into and select which OS (Windows or MAC).

Grab a cup of tea and patiently wait for the download to complete.

## 03. Run the installer

After the download is complete:

Windows will automatically start the installer, you can choose where to install the large sample files when you reach "Select content location".

Mac will open the DMG and you need to open the PKG file, you can choose where to store the large sample files by clicking the blue folder icon when you reach "Installation Type".

This is a large and densely packed plug-in, so the install may take a bit of time....

## 04. Once the install Completes

Open your favourite DAW and add the Bohemian Cello as you would any other plug-in.

The plug-in will ask for a one time activation, copy and paste the same code you used for pulse into the box and click activate.

Wait for the plug-in to do its thing, when the plug-in activates and you see the Bohemian Cello, if using Logic: RESTART THE PLUG-IN.

The Bohemian Cello will now be ready to play.

Installed to the wrong Hard drive? No worries, jump to page 16 which shows you how to move your samples to another hard drive.

Come across any issues with the above? Jump to page 17 where we go over alternative ways to get installed or visit our Help page Guide.

# **CONTENTS**



Virtual performer tech	Page 4	Articulations - moods & longs	Page 13
Main Interface	Page 5	Articulations - legatos & bowing	Page 14
Sample streaming	Page 6	Articulations - extended	Page 15
Performer modes & maestro	Page 7	Moving samples to a different hard drive	Page 16
Crafting	Page 8	Trouble Shooting Install	Page 17
Settings - articulations	Page 9	Credit & Thanks	Page 18
Settings - reverb & space	Page 10	Credit & Thanks	i age io
Settings - fine control	Page 11		
Settings - performer guide	Page 12		

# VIRHARMONICS VIRTUAL PERFORMER TECH



## The virtual instrument that became a real boy

Creating music has never been so easy, with the help of our Virtual Performer, which is making split second decisions based on your playing input, inspiring you to write lyrical lines like never before, a Real Performance.

The Bohemian Cello was designed to free you to perform real Cello Performances fast, without the need to be a Cellist yourself.

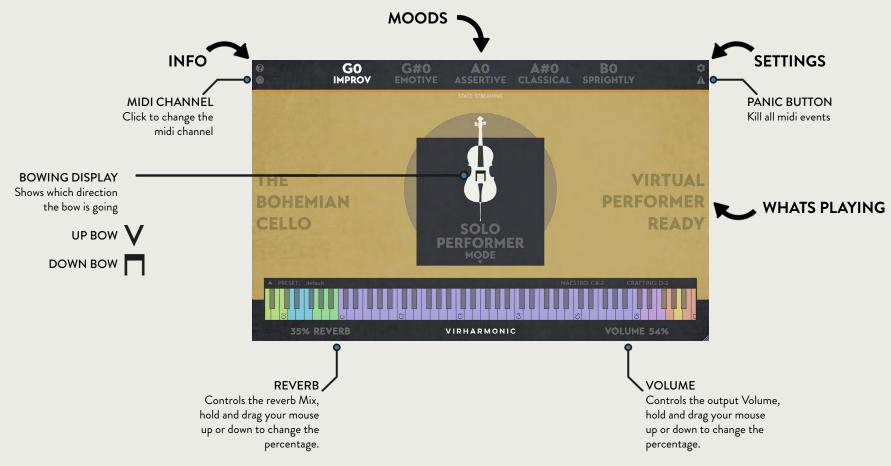
To achieve realism, we recorded an unprecedented amount of samples for a solo instrument, but managing all this by loading individual patches would be slow and cumbersome and stifle inspiration. This is where the virtual performer comes in, controlling all the varied legatos, bow types and emotive expressions as you play, all from one patch and all in real time.

This is not your usual Virtual Instrument, this is a Virtual Performer.

Ondrej Pochyly Director Virharmonic

# MAIN INTERFACE





### INFO

When activated, hover over any function and a brief explanation will appear.

Click the? to deactivate the onscreen info boxes overlay.

#### MOODS

Choose between 5 different play moods. These are keyswitches and can be changed while playing.

#### SETTINGS

Takes you to the back of house of the Virtual Performer.

Here you can assign articulations, choose and adjust Reverb and space, tweak the fine controls and look through the performer guide.

#### WHATS PLAYING

When playing, this shows you the Status (standard playing or Crafting), articulation, and the Dynamics.

## SAMPLE STREAMING



#### **STATE**

The bar across the top of the user interface shows the streaming/loading state of the plug-in. By default the plug-in is set to background streaming and will load direct from drive any notes you play, storing the notes in memory.

Orange pulsating bar: Live streaming

Orange solid bar: Standby mode (default state)

White pulsating bar: Loading all samples into memory. This can only be activated by clicking the load all samples button found in the setting tab Fine controls.

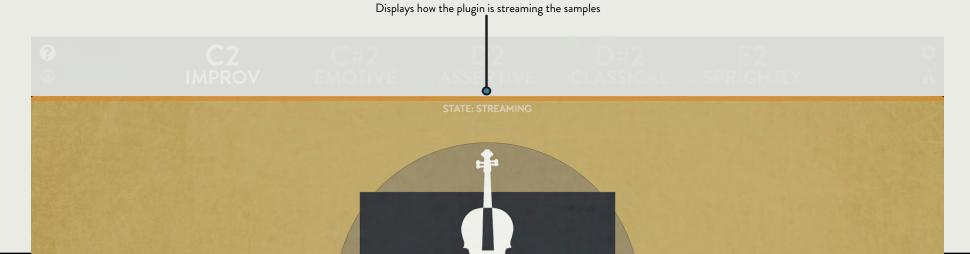
White Solid bar: All samples have been loaded into memory

Red pulsating bar: All samples are being purged from memory. This can only be activated by clicking the purge all samples button found in the setting tab Fine controls.

The default streaming state gives you the optimal performance from the plug-in. If however you experience constant drop outs in sound, your hard drive may not be fast enough to live stream.

The solution is to either place the .Blob files (which contains all the samples) onto a faster hard drive or deactivate streaming by loading all samples. Loading all samples will take some time to fully load.

STATE



## PERFORMER **MODES & MAESTRO**



#### PERFORMER MODE

We have numerous modes to choose from:

Solo or second cello are used as single instrument instances.

Trio and Chamber will play all notes with 3





Div Trio and Div Chamber will be voicing chords with natural divisi. This can occur only when Maestro is on which will auto activate, else they work the same as normal Trio or Chamber, (Maestro will remain on when you switch out of Divisi mode).

### MAESTRO > C#-2 + CC assignable with right click

Switches the Bohemian Cello into Poly-Legato mode. Force-Keys and Key-Switches can still be used but are not displayed on the interface while Maestro is active.

Moods also affect the Play Style of Maestro. Bowing is not displayed when Maestro is on and is replaced with the Maestro Icon M

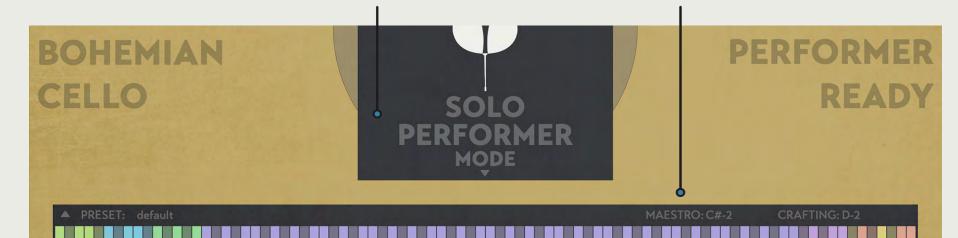


#### PERFORMER MODE

Displays which play mode is in use, click to open the drop down menu

#### MAESTRO

Press the assigned key-switch to Activate Poly-Legato



## **CRAFTING**



### CRAFTING > D-2 + CC assignable with right click

When crafting is enabled, you can blend any Forced on bow type / Articulation with our legatos.

For example when you force Arcs and crafting is on, you will hear an interval between the notes played if you either overlap or play within the bowchanged time\* after the release.

This can be usefull for further evolving and personalizing the performance as well as adding more variety.

Shorts will act as overlays over the legato notes.

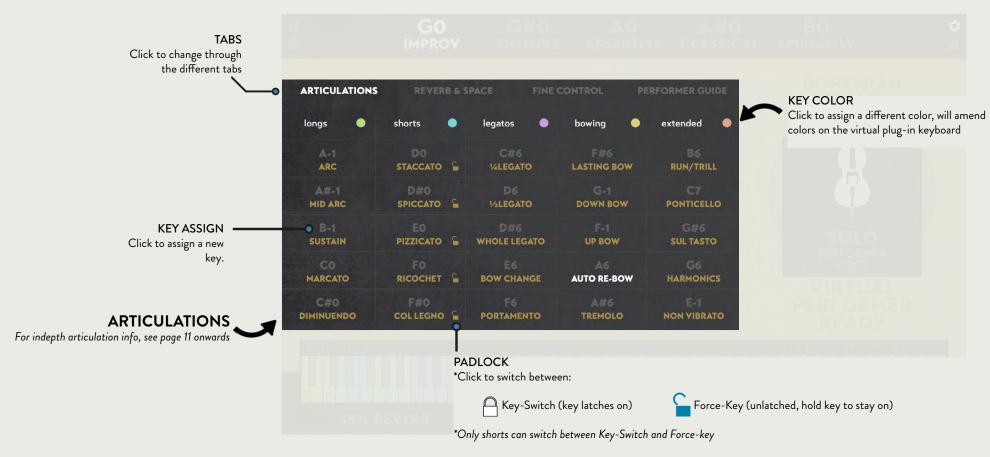
Crafting Button can also be right clicked and assigned to CC.

\*If you stuggle to get the timing right to perform a Bow-changed Legato, try amending the Release Delay settings found under the Fine Control Tab.



# SETTINGS ARTICULATIONS





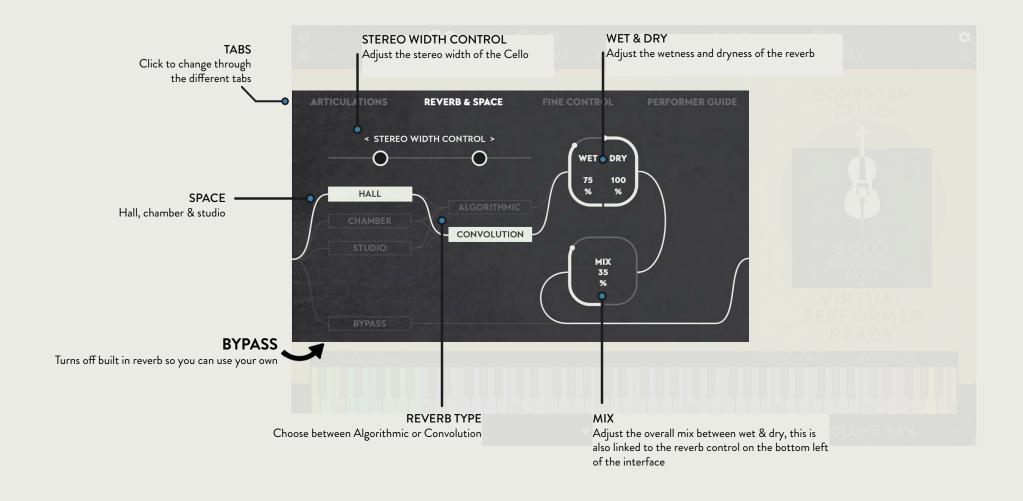
### **ARTICULATIONS**

This displays all the available articulations in the Bohemian Cello, they are seperated into columns:

- Longs contain Arc, mid Arc, sustain, marcato & diminuendo.
- Shorts contains Staccato, spiccato, pizzicato, ricochet & col legno.
- Legatos contains Quarter, half, whole, bow change & portamento.
- Bowing contains Lasting bow, up bow, down bow, auto re-bow & tremolo.
- Extended contains Run/trill, ponti cello, sul tasto, harmonics & non vibrato.

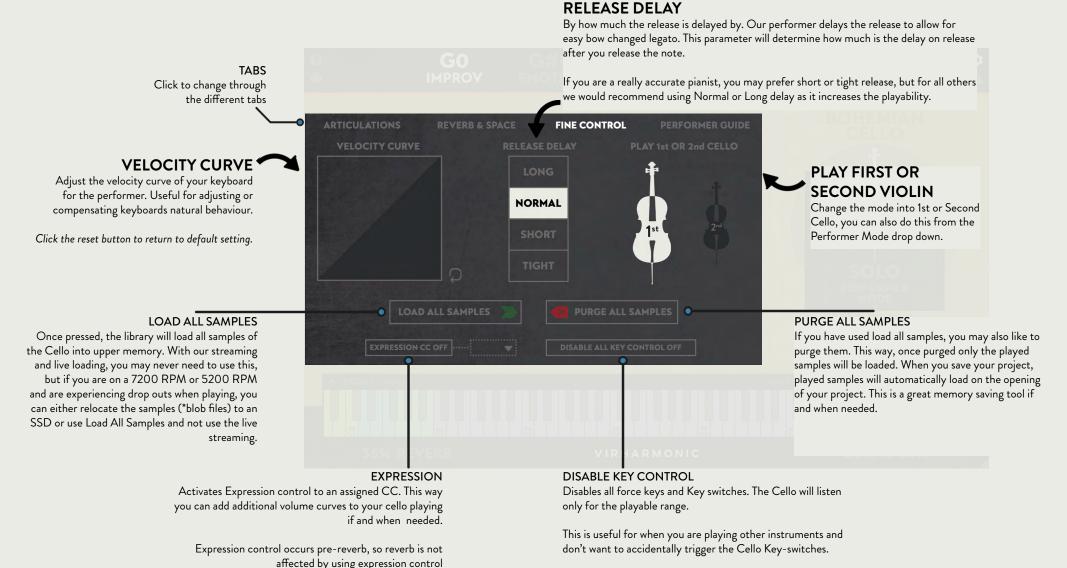
# SETTINGS REVERB & SPACE





# SETTINGS FINE CONTROL





(compared with Automation in your DAW).

# SETTINGS PERFORMER GUIDE







# ARTICULATIONS MOODS & LONGS



#### MOODS

#### **IMPROV - GO**

Ideal for all tempos and a great way to start playing with our Virtual Performer.

Improv will offer the most variety in selecting our on bow legatos, as well as utilizing all variations of our Bow-Changed Legatos to allow the player to be always in phrase.

This mood is very expressive yet flexible, ideal for mid tempo pieces.

#### **EMOTIVE - G#0**

Offering the softest of our moods, ideal for the slower paced pieces in lower dynamics. Leaning towards a feathery performance with a nice but not over pronounced slur and slower paced legatos, whilst still allowing for faster paced parts.

#### **ASSERTIVE - A0**

The most aggressive of our moods, always opening the beginning of the phrase with a Marcato. Leans heavily towards faster legatos and is ideal for faster paced energetic pieces in higher dynamics.

#### CLASSICAL - A#0

Classical brings about a very assertive Cellist, playing using mostly fingered Legato. Ideal for faster mf to ff phrasing.

#### **SPRIGHTLY - BO**

mood.

For aggressive fast runs. Sprightly utilizes Spiccato overlay on top of short bowed and slurred runs legato. The result is fast paced dynamic playing suitable for runs and fast melodic repetitions.

Other Articulations and Force-keys are disabled on this mood. For crafting by hand, please use any other

#### LONGS

#### ARC - A1

A sustained note with Crescendo and a very soft start. Ideal for longer opening notes.

#### MID ARC - A#-1

Similar to Arc but with faster Crescendo and Diminuendo towards the end. The Mid Arc climaxes in the middle. More suitable for mid phrases or faster paced pieces.

#### **SUSTAIN - B1**

Level dynamic sustain, suitable for mid phrases or faster bow changes.

#### MARCATO - CO

Sustain with a sharp and immediate attack, ideal for faster paced parts or escalation of dramatic emotion.

#### DIMINUENDO - C#0

A sustain with gradually decreasing volume, currently the longest bow. Ideal for end of phrase.

#### STACCATO - DO

Short, sharp detached note, often used in works of Vivaldi and Mozart.

#### SPICCATO - D#0

Short notes using a bouncy bow, gritty and great for atmospheric writing or fast runs.

# ARTICULATIONS LEGATOS & BOWING



#### **LEGATOS**

#### **QUARTER LEGATO > C#6**

A form of on bow legato that uses purely fingered or string changed legato with a short note after the transition.

Ideal for faster pace emotion or if no slur is desired.

#### HALF LEGATO > D6

The most expressive of all legatos, with a mid length bow after the transition.

Featuring fingered as well as pronounced slurs with dynamic variation. Ideal for expressive parts.

#### WHOLE LEGATO > D#6

Whole Legato, the slowest of all the legatos featuring both fingered and slurred in lower dynamics. Offers the longest on bow sustain after transition and is ideal for quiet and emotional playing.

#### **BOW CHANGE LEGATO > E6**

Forcing bow change will mean that every new overlapped note will use bow changed legato instead of on bow.

#### **PORTAMENTO > F6**

Is a slide between a note and a new note on overlapped legato. The force key needs to be pressed, like with all others, prior to the transition (new note overlap).

This legato should be used rarely.

#### BOWING

#### LASTING BOW > F#6 + CC assignable with right click

When switched on will prolong the bow length following a Legato. Can be Key-switched on or off and also CC assignable by right clicking on the Lasting Bow.

#### UP BOW > F-1

Manually force the bow direction up, by holding down this force key, overriding the Virtual Performer.

#### DOWN BOW > G-1

Manually force the bow direction down by holding down this force key, overriding the Virtual Performer.

#### AUTO RE-BOW > A6 + CC assignable with right click

When on, the cellist will automatically rebow. We recommend to always have Lasting bow or Auto-Rebow on. When Lasting Bow is on It will overwrite the automatic rebowing even if Auto-Rebow is on. Once you turn off Lasting bow, the Auto-Rebowing will continue, if this function is enabled.

#### TREMOLO > A#6

Really fast repetition of the same note. Can be triggered by either really fast note repetition or by forcing on Tremolo force key.

# **ARTICULATIONS EXTENDED**



#### **EXTENDED**

#### **RUN/TRILL > B6**

Fingered or string changed on bow legato, ideal for fast moving notes.

#### PONTI CELLO > C7

Almost a haunted sound produced by playing very close to the bridge.

#### SUL TASTO > G#6

Very gentle, but thinner sound, produced by playing over the fingerboard further away from the bridge than usual. Ideal for very gentle and low dynamic parts.

#### **HARMONICS > G6**

Technique that delivers Overtones. It has almost a whistling sound quality to it. Often used to create ethereal feel.

#### NON VIBRATO > E-1

None vibrato bow strokes. None vibrato does not support auto re-bowing or the lasting bow functions, thus each note will finish at the end of the bow. However, it has true re-bow samples available, so you can re-bow manually by replaying the note and it can also be played as an on-bow or bow-changed legato when forced.

#### **OTHER**

#### MAESTRO > C#-2 + CC assignable with right click

Switches the Bohemian Cello into Poly-Legato mode. Force-Keys and Key-Switches can still be used but are not displayed on the interface while Maestro is active.

Moods also affect the Play Style of Maestro. Bowing is not displayed when Maestro is on and is replaced with the Maestro Icon.

The Key-switch for Maestro is not physically clickable on a midi keyboard as we ran out of available keys to assign it to, you can either use CC or swap the key-switch with another less used articulation.

#### CRAFTING > D-2 + CC assignable with right click

When crafting is enabled, you can blend any Forced on bow type / Articulation with our legatos.

### PERFORMER MODE > On screen selectable + CC assignable with right click

Select modes by using the on screen drop-down menu or cycling through using CC assign.

#### !DIVISI MODE WILL AUTO ACTIVATE MAESTRO!

- SOLO
- SECOND SOLO
- TRIO
- CHAMBER
- TRO DIVISI
- CHAMBER DIVISI

#### EXPRESSION CC > Activate in Fine Control Tab

Expression is deactivated by default, unless activated manually.

Activates Expression control to an assigned CC. This way you can add additional volume curves to your cello playing if and when needed.

Expression control occurs pre-reverb, so reverb is not affected by using expression control (compared with Automation in your DAW).

# MOVING SAMPLES TO A DIFFERENT HARD DRIVE



Create a new folder on the hard drive you wish to move the samples to (SSD is best)

Locate the samples .blob files:

Bohemian Cello\_part1.blob Bohemian Cello\_part2.blob

These can be found:

MAC Default install location: Library/Application Support/Virharmonic/Bohemian Cello

WINDOWS Default install location: ProgramData/Virharmonic/Bohemian Cello

OR if you have selected a different install location during install, please go to that location and locate the .blob files

#### YOU MUST PLACE BOTH .BLOB FILES IN THE SAME FOLDER

Copy the 2 blob files to the new folder you have created, once copied over you can delete the original 2 blob files. **DO NOT DELETE THE FOLDER**, this must remain where it is. Do not delete any other files or folders.

Open the plugin in your Digital Audio Workstation (DAW) and the Bohemian Cello plugin will see that the samples folder has no .blob files present and will ask for you to locate the moved .blob files, it will then link to the new location and open.

# INSTALL TROUBLE SHOOTING



Cannot or will not use Pulse? Get in touch and we can provide alternative download links, but these will be very Large files, so Pulse really is the best option.

	Your plugin needs to be activated before first use.  Please enter your serial code in the box below
INSERT SERIAL HERE  There is no flashing text input cursor  Simply copy your serial code, click the insert serial here and paste the code, then click Activate  Once the activation is completed,	• insert serial here  ACTIVATE
RESTART THE PLUG-IN	

If the plug-in fails to communicate with the server, it will ask you to open the Gorilla Manager (A Gorilla Manager button will appear on the plug-in) and you can input your serial code there instead.

Each serial has 5 activations and can be used on up to 5 machines at the same time. If you use up all your activations, please contact virharmonic support for assistance.

If you are on MAC and are unable to enter the serial into the box, please check what OS version you are using.

The Bohemian Cello is compatible with MAC OS 10.14 onwards. Any version prior to 10.14 is not compatible and an OS update will be required. If in doubt, please contact virharmonic support

# **CREDITS & THANKS**



## Ondřej Pochylý

HEAD DEVELOPER CONCEPT, RECORDING, SAMPLING, MAPPING, LOGIC

Alex Hyde

Pavel Čadek

GUI, MANUAL, SAMPLE CUTTER

**CELLIST** 

Jordi Cerezo

**SCRIPTING & PROGRAMMING** 

Viktor Polančík

**SAMPLE CUTTER** 

Additional Massive Thank you to the amazing team at Gorilla Engine for their assistance during the development of our plugin powered by their Gorilla Engine.

