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Synchron Stage Reverb

Overview

General Information

Big Bang Orchestra

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Synchron Concert D-274

Introduction

players and audiences alike.

The reasons are obvious: Especially when competing with orchestras, the D-274 impresses with its tremendous assertive sonic volume and power – which is not surprising considering its soundboard of almost two square meters (21.5 sq.ft.)!

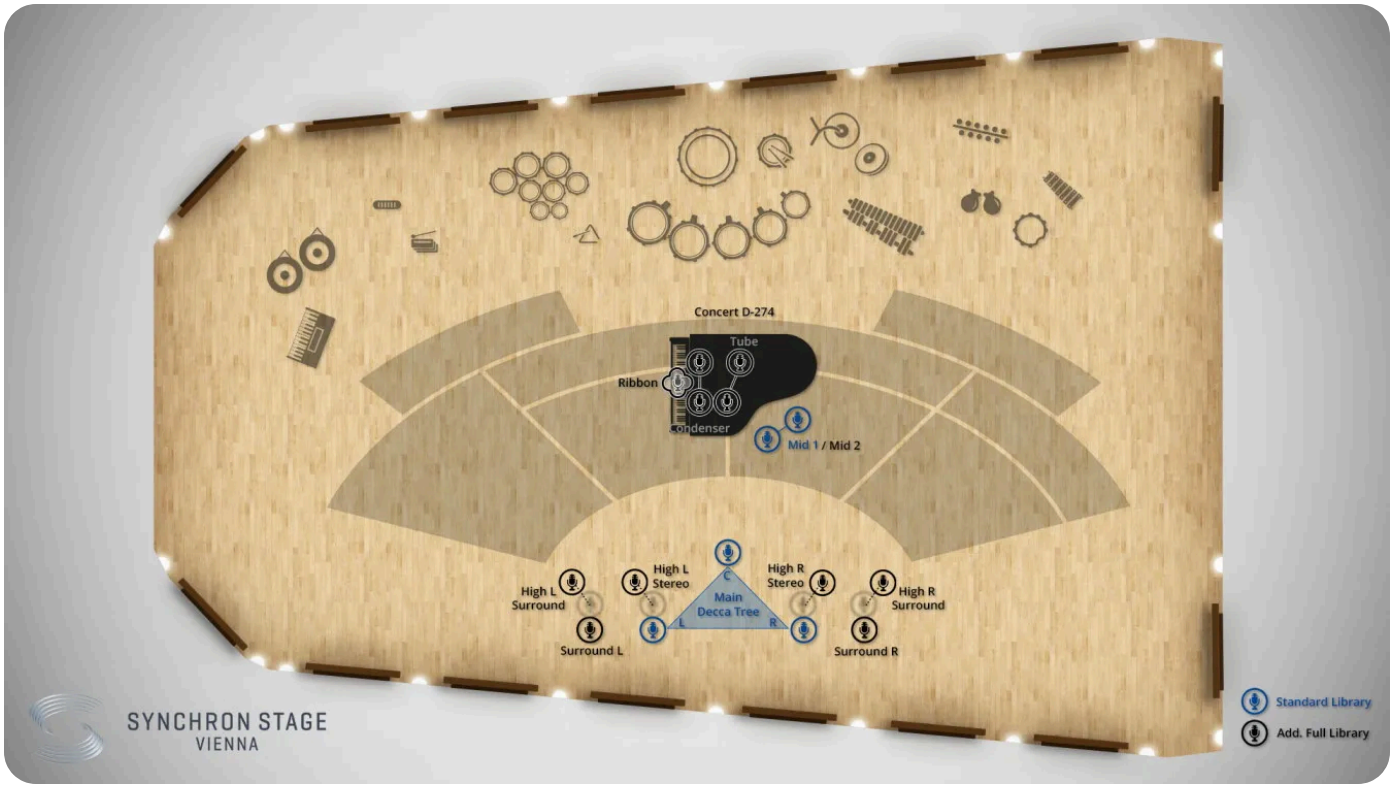
Leading artists of all eras have appreciated playing a Steinway D, from Sergei Rachmaninoff, Vladimir Horowitz, Arthur Rubinstein, and Glenn Gould, to today's top-notch pianists, such as Pierre-Laurent Aimard, Emanuel Ax, Hélène Grimaud, and Lang Lang, just to name a few.



Standard and Extended Library

Microphone positions

With over 4,000 samples per key and almost 20,000 samples per microphone position, the Synchron Concert D boasts breathtaking authenticity. In order to capture this marvelous instrument in one of the best acoustic environments on the planet, our recording engineers used multiple high-end microphone arrays, affording an abundance of options for creating your individual sound.



Microphones Comparison

Standard Library Full Library

2	Condenser - Close 1 (Sennheiser MKH 8040) Nicholas Decrescent	1:21
3	Mid 1 (Sennheiser MKH 800) Nicholas Decrescent	1:20
4	Main/Room Mic (L/R) Nicholas Decrescent	1:20
5	Main/Room Mic (Center) Nicholas Decrescent	1:20

Standard Library

- **Room Mic (Mix):**
  The Room Mix channel contains a stereo mix of all available room microphones from the Full Library.
- **Condenser - Close 1 (Sennheiser MKH 8040):**
  "ORTF" setup with a pair of Sennheiser MKH 8040, positioned as closely as possible over the hammer area. Ideal for producing the typical "pop piano" sound.
- **Mid 1 (Sennheiser MKH 800):**
  "ORTF" setup with a pair of Sennheiser MKH 800 mics for a wide, warm yet bright and centered sound.
- **Main/Room Mic (L/R) & (Center):**
  Decca Tree array (L-C-R) with three DPA 4006 mics. These very neutral microphones captured even the smallest detail of the Vienna Synchron Stage. Used in a stereo mix, you can easily hear where the piano is placed. In a surround setup, the Decca tree microphones will be the feed for your front L-R speakers.

"Blumlein" setup with two ribbon figure-eight capsules of a Royer SF-24 mic, for a fast, direct, and natural sound.

- **Tube - Close 3 (Neumann M-149):**
  "ORTF" setup of a Neumann M-149 stereo pair, capturing the beauty of the Steinway D with the analog warmth and richness only a legendary tube microphone can provide.
- **Mid 2 (Sennheiser MKH 8040):**
  "ORTF" setup with a pair of Sennheiser MKH 8040 mics for a centered, but harder and more focused sound than the MID 1 Position.
- **Main Surround - Stereo (L/R):**
  Wide A-B stereo setup with two DPA4011 cardioid microphones. You may use them as so-called "Wides" or "Outriggers" in a stereo mix in order to create an even more spacious impression. In a surround setup, these microphones would be used for your rear speakers.
- **High Stereo (3D) - Stereo (L/R):**
  Stereo A-B-setup with two AKG C-414 condenser microphones, spotting the very nice reflections of Vienna Synchron Stage's ceiling. In stereo mixes, you can use them as an alternative to your main mics, or you may down-mix these much more diffused signals. The sound is more "sparkling" and reverberant compared to the main mics. These microphones should feed your top or ceiling speakers in an Auro 3D or Dolby Atmos mix.
- **High Surround (3D) - Stereo (L/R):**
  Like the High Stereo (3D) setup, this A-B array features two AKG C-414 microphones.

The instrument Presets also include different mixer presets. By default the classic room mixes are loaded which include the Standard Library microphone positions. These are balanced in the stereo field to represent the respective instrument's position in the Synchron Stage set-up.

Immersive Sound and Auro 3D

selection of discrete audio channels with the Full Library of Synchron Concert D-274 you may mix your instruments in Auro 3D as well as in Dolby Atmos.

About this piano

Our very own Steinway & Sons D-274 is a "Hamburg Model" and was hand picked from eight Steinway D models by Stefan Mendl, founding member and pianist of the Vienna Piano Trio. In a city rich with glorious instruments, it is ranked among the best sounding grand pianos in Vienna, and has been endorsed by all artists who have had the opportunity to play it. The instrument enjoys permanent, climate-controlled residency at Vienna Synchron Stage, which is characterized by its particularly warm, intense, and natural ambience. The hall has lent its acoustic signature to numerous international productions, from classical chamber music to international, large-scale orchestral film scores.

Key Features

- Steinway & Sons D-274, Hamburg Model
- Over 4,000 samples per key for maximum authenticity, liveliness, and feel.
- Recorded in the natural ambience of one of the best recording halls in the world, Vienna Synchron Stage
- Utmost realism, capturing all of the instrument's nuances with our proprietary precision sampling technology
- Hyper-realistic playing feel
- Multiple microphone positions – for a multitude of timbral variations
- Intuitive, customized Synchron Pianos software with high-performance playback engine

- Body resonance
- Dedicated release samples, depending on played release velocity
- Detailed pedal sounds for soft and sustain pedals, depending on pedal speed

Advanced Release Sample Technology

To capture the Steinway D with all its subtleties, our engineers developed a highly precise motion-control system based on a solenoid that controls a noise-free "robot finger". The micro-controller moves the finger with super-human precision, providing flexible curvatures for down-strokes and release movements. The MIDI controlled system delivers more than 100

Customize Your Personal Sound

In addition to the multitude of options from mixing various microphone signals, the Synchron Concert D comes with our free Vienna Synchron Pianos Software that offers multiple options for shaping your sound and the playing experience. Hosting a high-performance playback engine, the software provides a musician-friendly user interface that allows for quick and easy timbral control. Create your sound intuitively by filtering particular key ranges or even single keys, adjust the body resonance of the instrument or add just a pinch of algorithmic reverb to refine the overall sound.

Room Mix (Standard Library)

Ready-made, resource saving presets with as few microphones as possible. The "Room Mix" Channel contains a mix of all available microphones from the Full Library.

Decca Tree Multi Mic (Standard Library)

The classic sound of a Decca tree stereo recording features a more slender sound with less diffusion compared to the "Room Mix" Presets.

Surround to Stereo Downmix (Full Library)

These presets include all available room microphones with various runtime delays, creating more diversity in the perception of room depth.

Surround (Full Library)

Designed to send the microphone signals to your available surround channels.

Character Presets

The Synchron Pianos player interface offers instant and direct access to seven pre-configured character presets.

Audio Demos

Preset Comparison

2	Nicholas Decrescent	1:28
3	**Player** Nicholas Decrescent	1:28
4	**Pop** Nicholas Decrescent	1:28
5	**Ambience** Nicholas Decrescent	1:28
6	**Mighty** Nicholas Decrescent	1:28

1. **Concert:**

   Character: A grand spatial representation of the Steinway & Sons D-274 at Vienna Synchron Stage.
   Perspective: Conductor, with the instrument at its original recording position in the center.
   Mix: Additional Reverb on the Close and MID microphones, with a 35 ms runtime delay on the Room Mix channel.
   Recommendation: Piano concerts

2. **Intimate:**

   Character: Close, charming sound with attenuated treble register and added Body Resonances.
   Perspective: Player, centered
   Mix: Little reverb on the Close microphone, with a 33 ms runtime delay on the narrowed

Sons playing feel.
Perspective: Player, centered
Mix: Very little additional reverb on the Close microphones, with dampened high frequencies and a 21 ms runtime delay on the narrowed Room Mix channel.
Recommendation: Ideal recording preset

4. **Pop:**

   Character: Powerful and assertive, with reduced MIDI sensitivity, accentuated low and high frequencies, and a short reverb.
   Perspective: Player, centered
   Mix: Little additional reverb on the MID microphones, with bolstered deep and high frequencies and a 21 ms runtime delay on the narrowed Room Mix channel.
   Recommendation: For the modern songwriter, for live solo performances and within a band context.

5. **Ambience:**

   Character: Spacious, roomy, washy, with soft attacks. Assertive sound even in the background of a mix.
   Perspective: Conductor, with the instrument at its original recording position on the right.
   Mix: Much reverb on all microphones and a 27 ms runtime delay on the Room Mix channel.
   Recommendation: Soaring melodies, lush arrangements, film scores.

6. **Mighty:**

   Character: Bouncing, echoing sound with a distinctive slapback.
   Mix: Much reverb on all microphones, with EQ adjustments. The slapback is created with the runtime delays for the Mid microphone and Room Mix channel. You may adjust it to fit the tempo of your music.





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