

NUENDO EXPANSION KIT

New Product Guide

August 2007



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Nuendo Expansion Kit

Product Name

“Nuendo Expansion Kit”

Tagline

“Cubase Music Tools for Nuendo 4”

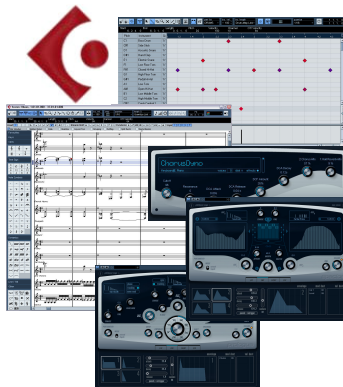
Positioning Statement

The Nuendo Expansion Kit adds core Cubase music composition functionality – known as “Cubase Music Tools” – to the standard Nuendo 4 application. This provides maximum functional and budgetary flexibility to demanding clients in the audio post, studio production and live recording industries. It also means that Steinberg can position and market its entire range of audio and music software solutions much more effectively to the specific customer groups for which they were conceived.

Mission Statement

With the launch of Nuendo 4 and its optional Nuendo Expansion Kit, Steinberg now uniquely provides clearly differentiated product ranges which offer “best of class” solutions to distinct customer groups: Nuendo for the post and pro audio community, Cubase for musicians, composers and producers, WaveLab for audio editors and mastering engineers, and Sequel for entry-level music creation enthusiasts.

Product Description



Nuendo Expansion Kit – Cubase Music Tools for Nuendo 4

As an answer to the demands for specialist solutions, as well as flexibility in both functionality and cost management throughout the audio post, studio production, and live recording industries, Steinberg has reconceived and refocused the feature set of Nuendo. One consequence of this, in addition to the new functionality in Nuendo 4, is that certain features present in previous versions of Nuendo which overlapped the core feature set of Cubase have been removed. These are features typically used in the process of musical composition – that is, the Score Editor with its full layout functionality, the Drum Editor, and additional Steinberg VST instruments – none of which are essential tools in the main target industries for Nuendo.

The new Nuendo Expansion Kit (NEK), available as an optional add-on for Nuendo 4, makes all of these Cubase Music Tools available “on demand” for those customers who may require them. This innovative, flexible approach provides complete integration of these Cubase music composition features whenever required in a Nuendo workflow, as well as providing complete project compatibility with Cubase 4 in mixed Nuendo/Cubase workflows.

Benefits of the Nuendo Expansion Kit

The new Nuendo Expansion Kit (NEK) is an optional add-on for Nuendo 4, making specific Cubase music composition and arrangement functionality available “on demand” for those Nuendo customers who may require them.

This flexible approach provides the following advantages for the Nuendo user:

Features on demand – *Optionally available whenever needed*

The decision to purchase the NEK can be made whenever it best suits your workflow or budget. If your future Nuendo workflow or upcoming projects should require music composition functionality, NEK can always be added in an easy and straightforward way - just like adding a plug-in.

Advanced compatibility - *Seamless project interchange*

The “standard” Nuendo provides playback compatibility with those Nuendo seats outfitted with NEK as well as any Cubase seat. However, adding NEK will provide advanced project compatibility since all Cubase Instruments can be loaded, and drum maps in existing projects will not only be played back, but also can be edited.

Seamless integration – *Unmatched functionality*

The features that NEK adds to Nuendo 4 cannot be found in most competing applications. In contrast to using a variety of applications simultaneously, NEK makes the Cubase Music Tools available within Nuendo, providing integrated functionality that can benefit workflow and creativity.

Feature portability - *Use NEK wherever you need it*

Buying one NEK alone enables you to use the NEK functionality on any Nuendo-equipped computer. The NEK license is fully portable on a Steinberg USB key and the actual installation of NEK can be done on multiple computers.

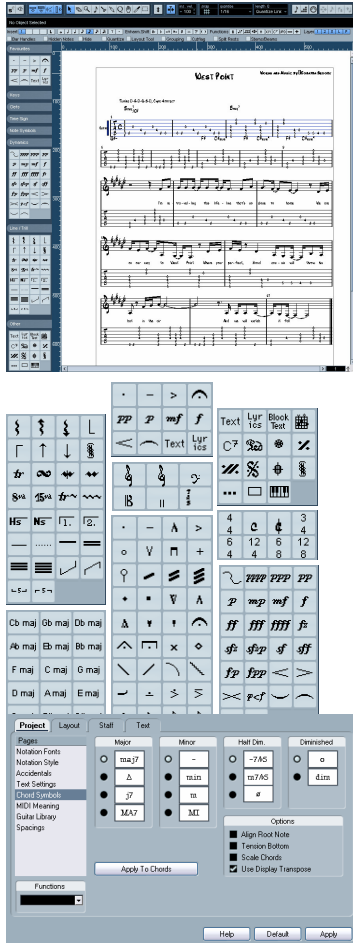
The Nuendo Expansion Kit Features

Music Notation

The Nuendo Expansion Kit (NEK) integrates an extensive set of functions and tools for music notation and score printing directly into Nuendo. The Score Editor has been conceived to allow any possible piece of music to be displayed as a score, complete with all the necessary symbols and formatting. It allows you to extract parts out of a full orchestra score, to add lyrics and comments, create lead sheets, score for drums, create tablature, etc. In other words: just about any type of notation you could ever desire!

Your MIDI input converts directly into notation so that you can easily create scores of your compositions. The Score editor immediately shows every MIDI data change (for example, a shifted or abbreviated note) and settings such as the time signature and key. Each sheet of a score can accommodate up to 32 note systems with up to eight voices per instrument. The Score editor lets you view your music in the form of scores, including all the symbols and diagramming options that this entails.

The Score Editor in the NEK has received several major enhancements when compared to earlier versions in Cubase or Nuendo. These include new inspector-style Symbol Tabs that can be individually collapsed and expanded, a special user-definable Favorites tab, and editing of multiple events using the info line. In addition, two master-quality Score Fonts have been added: "Jazz" and "Classic". Hundreds of professional notation symbols are available; simply select the tools you need to create the scores you want. The amazing MIDI Meaning feature translates notation symbols into MIDI parameters and offers a quick-audition function. The Staff Presets have been linked to the Nuendo 4 SoundFrame and its new Track Presets. This means that whenever a track preset is used that contains sound category information, a suitable staff preset is automatically assigned to that track. User defined MIDI or Instrument Track Presets can also save custom staff settings together with the instrument and sound. All settings in the Score Editor have been consolidated into a new intuitive settings window incorporating project, layout, staff and text settings. The new Score Editor Settings window is a major workflow improvement and speeds up the process of setting-up the score editor drastically.





MusicXML Definition

Version 2.0

MusicXML Import & Export

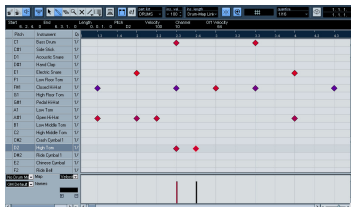
MusicXML is a data format for interchange of musical scores. It's supported by more and more companies to facilitate the exchange of musical scores between applications. Nuendo 4 plus NEK now supports both MusicXML import and export, allowing it to become the center of a multi-platform and multi-application music score workflow. In comparison to MIDI files, MusicXML includes not just note information, but layout information as well. A MusicXML file is a graphically rich yet compact document, comparable to a PDF, whereas a MIDI file would be just plain text.

With MusicXML Import, an NEK-equipped Nuendo could, for example, read scanned scores from applications such as SmartScore, Capella-Scan, PhotoScore Professional and others. MusicXML Export allows for transfer of scores to specialized score layout/publishing software such as Finale, Sibelius, or Capella Media Producer.

More than 60 software applications currently support MusicXML. A current overview and more information about MusicXML can be found here:

<http://www.recordare.com/xml/software.html#NowBoth>

Drum Editor



The Drum editor was developed especially for drum sequencing. A few clicks are all it takes to create complete drum tracks. And you can create an individual drum map for every employed instrument. The purpose of the Drum Editor is to edit MIDI tracks where each note (pitch) plays a separate sound, as is typically the case with a MIDI drum kit. The drum sound list to the left lists all drum sounds by name (according to the selected drum map or name list – see below), and lets you adjust and manipulate the drum sound setup in various ways.



Virtual Instrument: HALion One

With HALion One, the Nuendo Expansion Kit adds powerful sample playback synthesis to Nuendo 4. Based on Steinberg's award-winning HALion architecture, HALion One is optimized for use with SoundFrame™. It comes with more than 650 brand-new ready-to-play sounds covering dozens of acoustic and electronic instruments, as well as hundreds of colorful synth timbres. This extremely versatile sound set is optimized for lightning-fast preset switching and low memory consumption.

HALion One plays one single VST3 Preset at a time and provides one pair of stereo audio outputs. Sound and effect parameters can be tweaked using eight convenient Quick Controls. Edits can be saved as user presets. SoundFrame™ manages all of HALion One's presets, user presets and track presets. Finding the right sound is convenient and fast.

- Integrated sample-based instrument with more than 600 instruments/sounds
- Includes 58 drum kits
- Eight QuickControls
- FX Bypass button
- Variable efficiency to control CPU load
- One MIDI In, stereo audio out – perfect for Instrument Tracks

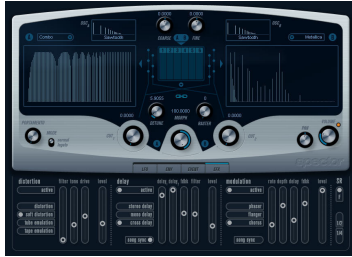


Virtual Instrument: Prologue

Prologue is a powerful virtual analog synthesizer and represents a further development of Steinberg's critically acclaimed D'cota synthesizer's Analog Page. It offers up to 128-voice polyphony and comes with hundreds of great-sounding presets covering a wide range of sounds reaching from traditional analog to indescribable. Prologue's intuitive user interface provides full editing capabilities with access to its three oscillators, powerful multi-mode filter, four envelopes, two LFOs, a powerful modulation matrix, and on-board effects.

- Virtual analog synthesizer with hybrid analog and digital waveforms
- Three oscillators
- Multi-mode variable resonance filter
- Four ADSR envelope generators
- Two LFOs
- Powerful modulation matrix
- On-board effects (Distortion, Delay, Phaser, Flanger, Chorus)

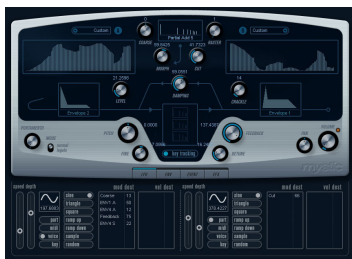
Virtual Instrument: Spector



Spector is the second new integrated synthesizer of the Nuendo Expansion Kit. It is based on two extremely colorful and versatile spectrum filters and is a further development of the Spectrum Page of Steinberg's D'cota Virtual Instrument. It also comes with hundreds of VST3 Presets. This unique instrument can utilize up to six oscillators per voice with two different waveforms each. Separate independent spectrum filters process each of the two waveforms. Creating new, unique sounds by simply drawing new filter curves and then shifting or morphing the two filter's spectrums is pure fun. Identical to Prologue, Spector offers four envelope generators, two LFOs, a powerful modulation matrix and on-board effects. With access to all sound parameters, Spector provides full editing capabilities.

- Up to six oscillators per voice
- Two variable spectrum filters with morph control
- Four ADSR envelope generators
- Two LFOs
- Powerful modulation matrix
- On-board effects (Distortion, Delay, Phaser, Flanger, Chorus)

New Virtual Instrument: Mystic



The third new integrated synthesizer in the Nuendo Expansion Kit goes by the name Mystic and is a further development of the Wave Page of Steinberg's D'cota Virtual Synthesizer.

Mystic's synthesis is based on three parallel comb filters with feedback. Sound source is an "impulse sound" based on physical modeling technology. The harmonic spectrum of this sound is based on one of six waveforms and a set of two spectrum filters. The sound can be shaped with a filter (Damping), by adding an offset to the comb filters (Detune), or by adding a noise component (Crackle).

Mystic is a very unusual but inspiring instrument with lots of personality. That makes it the perfect complement to the other integrated instruments of the Nuendo Expansion Kit.

- Impulse oscillator with spectrum filters
- Three parallel comb filters with feedback
- Four ADSR envelope generators
- Two LFOs
- Powerful modulation matrix
- On-board effects (Distortion, Delay, Phaser, Flanger, Chorus)