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Nuendo 3 - Media Production System

Nuendo 3 is one of the most flexible and technologically advanced post-production, recording and Surround systems available on the market today. Extraordinary sound quality and a host of unrivalled features, paired with a totally open architecture engineered to accommodate the audio industry's prevailing software and hardware standards, make Nuendo the system of choice for discerning professional users. Its system performance is readily scaled using any standard computer components. This gives you the computing power you need to rise to the challenge of handling complex projects entailing hundreds of tracks, innumerable effects and even the most intricate mixer configurations – all at a remarkably affordable price.

- Recording, editing and mixing with up to 192-kHz and 24-bit processing power (pristine 32-bit floating point internal resolution)
- Intuitive handling and extensive customization options to accelerate workflow
- Projects port readily to and from all standard audio and video cutting systems
- Powerful multi-channel capability throughout the signal path
- Awesome-sounding 32-bit Audio Engine optimized for multiprocessor operation
- Up to 192 physical inputs/outputs alongside freely selectable audio hardware
- Smooth, seamless integration into LAN and WAN environments
- Cross-platform product (Mac OS X/Windows XP)



New Features

Nuendo 3 marks another milestone advance in the evolution of Steinberg's celebrated Media Production System. It offers a multitude of new features, including AAF support, optimized media management, Pull Up/Down and Warp to Picture, as well as numerous new recording and Surround production functions. And with the release Version 3.2, Nuendo even boasts a full-fledged control room section unlike anything found on any other software mixer.

► [All new features at a glance](#)

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Free Selection of Audio Hardware

Nuendo grants you the freedom to choose whatever audio hardware you wish to use. You can select the hardware that is right for you in terms of quality, functionality and price.

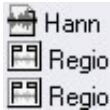
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Supported File Formats

Nuendo records audio signals in all industry-standard audio file formats and lets you import and export additional formats. And with that, Nuendo offers you far greater flexibility than other systems that work with proprietary formats or support just a few standard formats.

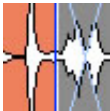
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File Management in the Nuendo Pool

The Nuendo Pool is a powerful administrative tool that helps you keep on top of all media files in even very complex projects. It lets you swiftly locate files, create your own sound libraries, and take advantage of timesaving batch processing options for your audio files.

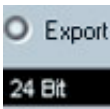
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Audio Editing

Though Nuendo performs all tasks exceptionally well, one of its strongest suites is its capacity to help you quickly post process audio material and efficiently conjure impressive sound designs. To this end, the software offers a rich set of audio processing tools for, a full-featured Sample editor, a process history, Elastic Audio features, versatile Fade editors, and many more powerful functions.

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Transfer Formats

Nuendo is remarkably flexible when it comes to communicating with other audio and video workstations. Designed to support standard transfer formats, Nuendo dovetails seamlessly into every workflow and studio environment.

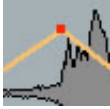
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The Nuendo Mixer

The Nuendo Mixer ships with all the functions found on big studio consoles, including a front-to-end multi-channel audio signal path and a powerful control room section.

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Automation

You may automate nearly every parameter on the Nuendo Mixer, including effect plug-ins and virtual instruments. With various procedures for recording automation data and a rich selection of editing options to choose from, you'll be delighted to discover how very convenient and productive the automation workflow can be.

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Remote Control

Courtesy of superb remote-control capability, you can trigger all crucial functions of Nuendo via any MIDI controller, via external hardware controllers and even via control systems developed especially for Nuendo and marketed by manufacturers such as Euphonix and WK Audio.

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Effect Plug-ins and VST Instruments

Nuendo 3 ships with a full set of high-quality VST plug-ins. What's more, you are free to extend its arsenal with the countless native and DSP-based effects and instruments offered by third-party providers as you see fit.

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Integrating External Hardware

Nuendo 3 offers innovative options for integrating your studio hardware. It even lets you use your external effect devices and instruments as plug-ins, with graphical user panels and automatic latency compensation thrown in for good measure.

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Optimizing Workflows

Nuendo 3 offers numerous freely definable presets for tweaking tools, commands and functions to suit your style and approach. It goes without saying but for the record, you are free to personalize the graphical user interface, menu structure and handling via user-defined key commands as you see fit. Nuendo adapts perfectly to your working method rather than vice versa.

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Video

Nuendo offers a very flexible integrated Video Engine featuring a Video Thumbnail track and Video window for sound-tracking videos. Additionally, it outputs images to external video monitors and enables external video playback devices to be controlled via SONY 9-Pin.

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Synchronization and Machine Control

Nuendo supports industry-standard synchronization procedures via SMPTE time code. It syncs up to external audio and video devices as the master or the slave.

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Network Integration

Nuendo integrates seamlessly into any LAN or WAN without entailing additional costs. Its unique Network Collaboration capabilities entail an extensive access rights management system enabling multiple users to work jointly on a network project. Every user can contribute and simultaneously receive update from others collaborators within the net.

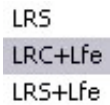
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MIDI Functions

Nuendo offers you one of the most extensive MIDI feature sets available for sequencing and composition. Steinberg has more than 20 years rich experience in this field, and all of it flowed into Nuendo. When it comes to creative musical powers, Nuendo offers you more options than comparable competing products.

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Surround Sound

The signal path in Nuendo is laid out for multi-channel audio from front to end and supports all standard Surround formats. Mono and stereo formats are readily mixed in Nuendo with LCRS, 5.1 and any other formats, and converted from one to other. Handling multi-channel sound doesn't get any easier than this.

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New Features in Nuendo 3.2

Control Room and Headphone Bus

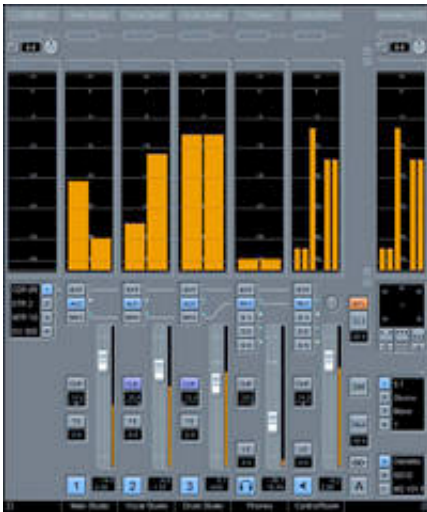
Nuendo 3.2 sports dedicated output busses for control room and headphone monitoring. Control room settings do not influence the main mix output.

Four Separate Monitor Setups

Four freely configurable monitor setups let you quickly toggle among different auditioning systems. Options include fold-back as well as useful solo functions such as Solo to Center and Back to Front for Surround environments.

Inputs for External Sources

You can quickly select up to six playback inputs for external signal sources such as DAT, CD and tape decks, and route them to any desired studio, headphones or control room bus.



Four Studio Busses

You are free to create individual sub-mixes for up to four separate studios. Every audio, group or effect channel in the Nuendo Mixer offers new studio sends with dedicated volume and panorama controls as well as a Pre Fader/Post Fader switch.

Talkback Function

The talkback circuit lets you communicate directly with speakers or artists in each of the connected studios. Automatic dimming prevents feedback. You also have a switch available for manual dimming – simply press it to instantly reduce the control room level.

Separate Click Bus

A dedicated click bus lets you patch the metronome signal to any studio, headphone or control room bus, whereby volume and panorama may be adjusted individually.

Key Command for Main Mix to Studio Bus

A simple key command is all it takes to route the main mix to each studio. Once this is accomplished, you will find it easy accommodate the speaker/artist's wishes and adjust the mix

accordingly.

Extended Support for Hardware Controllers

With the benefit of ► [WK's Audio ID Controller](#), you can manipulate all new control room features directly (with Nuendo 3.2, this feature is also available for OSX). The ID Controller comprises all the required hardware control features. ► [Euphonix's EuCon](#) Adapter has been extended for Nuendo 3.2 and now also supports dual joysticks for controlling Surround panners in Nuendo.

db-relative Fallback Time Display

The Fallback Time display now indicates values relative to dB. The idea here is to prevent display values from falling too quickly, particularly at the lower end of the scale.

Enhanced Sample Rate Conversion

The quality of sample rate conversion has been improved to minimize aliasing effects and maximize the accuracy of sample material conversion.

Normalize Function in the Mix Converter

The Mix Converter sports a nifty new Normalize function. Now if you wish equalize the output signal and input signal levels, you can simply activate Normalize mode.

New Global Presets

A new preset option lets you determine how Nuendo handles imported video files. Extracting Audio or Generating Thumbnail Cache may be activated and deactivated globally. Another preset option lets you determine on a global scale if the Send Routing Panner is linked to the Channel Panner. Gone are the days where you had to adjust this setting for every project.

Extended Always on Top Option

The Always on Top option lets you define windows that always remain to the fore within the application. It is now also available for the VST Connections and Plug-in Information windows.

New Features in Nuendo 3.1

Audio Pull Up/Down

The new audio Pull Up/Down function matches audio playback speed changes of 4% and 0.1 % (as well as combinations thereof). It comes in very handy when you find it necessary to adapt audio recordings' speed for movie and TV productions via the Telecine process or when converting NTSC to PAL/SECAM.



HDTV Frame Rates

Now that it supports additional frame rates, Nuendo is ready to handle the ever more popular HDTV format.

Extended Network Functions

Though the previous version's unique network functionality was already quite compelling, you'll be delighted to learn that it has been enhanced in Nuendo Version 3.1. Now supporting Marker tracks, it also offers a new Transfer Status window and an Online Merge function that lets you quickly combine selected tracks of local as well as networked projects.

Protection Against Data Loss

Nuendo 3.1 reduces the risk of data loss caused by calamities such as a power failure during recording. To this end, header information is added to the audio file at regular intervals during recording so that Nuendo is able to restore recorded parts after a crash. The Auto Save function has also been improved; now you can determine how many backup files are generated.

MacOS X Performance Optimization

Full Mac OS X Quartz 2D support ensures Nuendo benefits from all legacy and future Apple implementations geared to improve graphics performance.

Video Thumbnail Pre-Cache

This new option serves to compute a video track's thumbnail images and archive them on hard disk so that you can load and view them that much quicker further down the production trail.

Workflow Improvements

Many, many details have been enhanced to help you work at an even faster pace in Nuendo 3.1. These include synchronized track views in the Mixer and Project windows, as well as the new Enlarge Selected Track mode that when selected, automatically zooms up a track in the Project window.

Equal Power Panorama Control

The new Equal Power panner automatically balances out the differences in level resulting from panorama position changes and enables smooth pan sweeps across the stereo or Surround image.

Auto Edit for 9-Pin Devices

Version 3.1 now also offers an Auto Edit function for the Nuendo Time Base Synchronizer. Beyond that, the Auto Edit function for all 9-Pin devices has been extended to accommodate Pre-Roll and Post-Roll values.

Support for the Euphonix's EuCon Protocol

Nuendo 3.1 is the first Nuendo version to integrate seamlessly into studios equipped with Euphonix's MC or System 5-MC via the EuCon interface. Developed by seasoned Steinberg programmers and marketed worldwide exclusively by Euphonix, EuCon ensures flawless integration of top-drawer hardware and



software.



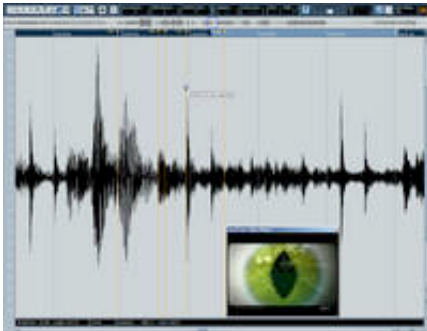
New Features in Nuendo 3.0

AAF File Import and Export

AAF (Advanced Authoring Format) is currently the most advanced transfer format for post-production. Companies such as AVID, Apple, Digidesign, SADiE, Merging, Fairlight, Adobe and Steinberg support AAF.

Optimized Media Management

Media management has been optimized and now comprises freely definable Event Attributes for creating your own sound databases, as well as an enhanced search function offering extensive search options that help you find the events you are seeking even more quickly. A convenient Renaming function makes it easy to swiftly rename multiple clips, regions and events at a time.



Warp to Picture Function

Adapting audio to video has never been as easy as with the new Warp to Picture function. Whether you wish to fine-tune dialogs or adapt music to pictures, the new real-time Audio Stretch algorithm lets you do both quickly and conveniently.

X-Send Integration

X-Send is on board so you can import projects directly from Liquid Video Editing applications.

AFL/PFL

Alongside the legacy Solo function, Nuendo now features an AFL/PFL option for the mixing console. If you press a channel's L (Lists) button, you can hear the signal via the Audition bus without affecting your routing or mix bus.

Pull Up/Down

The new Pull Up/Down 0.1% option is now integrated in Quicktime Video Player as well as DirectX Player to make it very easy for you to adjust video playback speed. When video files have been treated with the NTSC Telecine process, this function lets you "pull" them back or down to match the original audio recordings.

External FX Plug-ins

External FX plug-ins enable you to integrate digital or analog hardware effect devices directly into the Audio VST*** Mixer. Now you can use your favorite hardware as a plug-in - of course, with

automatic latency compensation.



MixConvert Plug-in

MixConvert is a new plug-in for converting one Surround format into another. It carries out the entire down-, cross- and even up-mixing process fully automatically. You have various setting options at your disposal to tweak the new mix to taste.

Part-based Volume Envelopes

New part-based volume envelopes afford you direct control over dynamic response. These new envelopes move along with events, making it even easier to adjust volume levels.

MIDI Device Maps/Panels

MIDI Device Maps/Panels afford you direct access to external MIDI hardware via freely definable graphical knobs. Feel free to import preprogrammed VST Mixer Maps or create your own control panels - even in the Track Inspector and the mixer channel strip.

Studio Connections Total Recall

With the benefit of Yamaha Studio Manager 2's Total Recall capability, you can summon up all the settings on external hardware such as mixers, audio interfaces and effect processors, provided that these support the Studio Connections standard.

Exclusive **NUENDO** 3.2 Features

1

With Steinberg's Media Production System having a dedicated focus on post production and surround the Nuendo feature set adds a list of functionalities to the feature set it has in common with Cubase 4.

This following list of attributes serves those creating audio to picture or working with extensive surround projects and is exclusive to Nuendo.

Functionalities for "audio to picture" work

Alongside the usual workstation capabilities found in musical environments today, those dealing with "audio to picture" often have additional demands. The following functionalities are exclusively available in Nuendo to support those working for film, television or multimedia:

- Display **Film Formats** (feet and frames for 16mm and 35 mm film) in timeline and counters.
- **Edit Mode** for syncing events & fades to the picture. The picture always follows while moving/trimming audio events or their fades.
- The command **Insert into Project at timecode position** which is available in the Pool enables the user to quickly transfer events from the pool into the project at specific time code positions.
- **The Track Sheet** provides a textual "flow chart" representation of the project. It lists all audio tracks and their contents and can easily be printed out.
- The ability of Nuendo to act as a **Sony 9-Pin Master** makes it possible to control 9-Pin compatible devices such as analogue or digital video decks, multi track recorders and other 9-Pin compatible applications. These devices then become a timecode master for Nuendo but their transport functionalities are comfortably controlled from within Nuendo.
- Additional **Machine Control** options are available within Nuendo in order to allow for optimized adoption to external machines which are controlled via 9-Pin or MMC.
 - Machine follows Mouse Edits
 - Send Shuttle command instead of FF/REV
 - Send Still / Pause instead of STOP
 - Activate Machine Controlled Cycle
 - 9-Pin - Displays follow locating Device

Exclusive **NUENDO** 3.2 Features

2

The following list of features is only available in Nuendo:

- **Warp to Picture:** When working with the Warp Samples tool or the Warp Time tool, the picture also follows with Edit mode enabled.
- In order to receive edited video projects from Pinnacle Liquid applications, **X-Send** functionality has been made available in Nuendo, so that Liquid application recognize Nuendo workstations inside a network or alternatively, Nuendo can import X-Send files from a server.
- A comfortable **Renaming Dialog** is available in Nuendo allowing for quick and easy Renaming of multiple selected Events, Parts, Tracks, Clips or Regions. Standard Text elements like date, number, previous name but also user attributes can be filled into the new name.
- Commands to execute **fades of 1 ms** at start or end of event are available in order to allow for these standard fades as quick as possible.
- The **Broadcast Wave** properties in Nuendo are being **saved with the project**. This makes project specific settings of these meta data sets possible.
- **User Definable Attributes** are available for clips in the pool. Attribute types "Text", "Number" and "Check Mark" can be setup and used for categorizing clips. The ability to setup search filters including these attributes help for fast media finding results.
- An option is available to display **frame numbers in video frames**.
- An option is available to automatically **adapt the project frame rate** to the frame rate of an imported video file.
- The ability to alter the **video playback speed** of the Nuendo video playback engines by +/- 0.1% allows for adjusting audio/video length offsets resulting from e.g. a Telecine process.
- **Pull up / Pull down** is provided in Nuendo to handle sped up or slowed down audio speeds introduced by film transfers or NTSC to PAL conversion.
- The **DirectX Video Player** in Nuendo supports multiple video tracks, cuts/trims/ duplicates and multiple video files on a video track with varying format and resolution.
- Support for direct import of files having the extension ***.m2v** or ***.mpv2** (mpeg2) as well as ***.vob** (DVD ripped mpeg 2).
- Support for **HDTV frame rates** in the project setup.

Exclusive **NUENDO** 3.2 Features

3

The following list of features is only available in Nuendo:

- The **ADR Studio** dialog replacement software from **Gallery** is supported by Nuendo and can be added in the Device Menu where appropriate MIDI input and output ports for operation with ADR Studio can be assigned.
Typically, ADR Studio is running on a separate computer controlling Nuendo in terms of record, track arming and event naming via a standard MIDI connection.

Surround functionalities

In addition to enabling user to set up projects in mono and stereo as well as any standard surround formats up to 5.1, Nuendo allows for multi channel environments all the way up to 10.2. This means that every audio input, audio track, effect return, group and audio output can be six, seven, eight, nine or even twelve channels wide. For those wanting to encode their project in real-time to LCRS a Matrix Encoder/Decoder plug-ins is provided in addition to the separately available Dolby Digital and DTS Encoders.

- Additional Surround formats (**6.0 / 6.1 / 7.0 / 7.1 / 8.0 / 8.1 / 10.2**)
- **Matrix Encoder** and **Matrix Decoder** plug-in allowing for real-time encoding/decoding to LCRS.
- **Mix 8 to 2** plug-in for down-mixing up to 8 channels back to stereo or mono.
- **MixerDelay** plug-in allowing for distance compensation and rerouting within multi-channel tracks.
- Allowance for **Optional Panner** plug-ins as an alternative to the provided Nuendo surround panner.
- The **MixConvert** plug-in allows for quick and easy conversion between surround formats.
- **Output Channels** have other output channels (only those on the right side of them) available as a **destination** in all send slots.

Exclusive **NUENDO** 3.2 Features

4

The following list of features is only available in Nuendo:

Network Collaboration

The **Network Collaboration** capabilities of Nuendo 3 allow true networking and team-working on projects. It allows users to connect multiple Nuendo workstation computers via standard LAN network cards. An entire project or just selected tracks can be opened on multiple computers for other members of the network to access and edit. Complete management of access rights and user groups makes it easy to collaborate on large-scale projects.

- The **User Manager** is the place to view all users in the network and define what other Nuendo users are allowed to do with your project. Are they able to read just some or all tracks? And even more important: Are they allowed to edit them as well? This decision is naturally made by the owner of a project.
- Network **Permission Presets** are real time savers. Once permissions are defined, they can be stored as presets and be recalled or edited for other projects.
- **Committing** changes is the most important feature of the network collaboration feature set. Edits made to you tracks or the tracks of others are transferred to the other systems connected.
- **Loading Changes** will update one or more tracks of a project so the work of other team members is integrated.
- **Automatically Apply Changes** applies immediate updates as soon as they are available in the network.
- The **Shared Projects List** provides an overview on all projects that have been opened for network access by their owners. The viewer's personal access rights are visible next to the projects.
- **Locking Tracks** makes it possible to get exclusive access to a certain track in case multiple users have editing rights. A track stays locked for the user who placed the lock until he himself or the owner of the corresponding project removes the lock.
- A **Chat Window** is available for direct textual communication between all Nuendo users participating in a collaboration project.
- The **Online Merge** functionality allows parts of projects to be merged into projects and vice versa.

Exclusive **NUENDO** 3.2 Features

5

The following list of features is only available in Nuendo:

Project formats

Being able to exchange projects with other workstations is a mandatory requirement for any modern media production software. In addition to the wide range of file formats supported by Nuendo and the inclusion of OMF for exchanging projects, the following exchange formats are available in Nuendo to swap files with devices such as Tascam or AKAI dubbers, high end digital workstations from Fairlight, SADie and Tascam, as well as importing edit decision lists from Adobe Premiere.

- **AAF** support
- **AES-31** support
- **OpenTL 3.0** support
- **Premiere Generic EDL** support

Hardware Support

- Support for **WK Audio ID Hardware Controller** is granted by Nuendo making the combination of ID and Nuendo a perfect team especially with ID featuring dedicated hardware elements to control the functionalities of the Nuendo Control Room section.
- Nuendo is capable of interfacing with **Euphonix MC** and **System-5 MC** allowing for the ultimate workflow experience while recording, editing or mixing.
- Nuendo supports the **TimeBase Synchronizer** which is a unit serving four purposes at the same time:
 - Clock Generation
 - SMPTE Interfacing
 - 9-Pin control including Nuendo 9-Pin slave mode
 - Video Inserting

Exclusive **NUENDO** 3.2 Features

6

The following list of features is only available in Nuendo:

Other functionalities

An array of other functionality is included in Nuendo to provide features that have been requested by high profile studio users:

- Record Sampling Frequency up to **192 kHz** for the ultimate sound experience.
- A **fourth Mixer Instance** is available providing optimal overview on any kind of track.
- **Advanced Cross Fade Editor** with even more professional tools to fine tune cross fades.
- Audio process **Acoustic Stamp** which processes any desirable impulse response allowing for offline convolution effects.
- **Batch Processing**: The offline process history can be saved and recalled as a batch process.
- **Menu Entries** can be disabled in order to hide unwanted functionality.
- **Key commands** can be disabled in order to suppress unwanted functionality.
- **Alternative Key Command Sets** can be configured and toggled with a single key stroke.
- **Denoiser** and **Declicker** plug-in for audio restoration.
- **MultiScope** plug-in including an oscilloscope, FFT spectrum analysis as well as phase metering and a jelly-fish surround sound view.