

A decorative graphic consisting of multiple thin, parallel, wavy lines in a light gray color, flowing from the bottom left towards the top right, creating a sense of movement and depth.

nero

Multimedia Suite 10

Manual

Nero StartSmart

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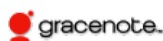
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1 Start Successfully

1.1 About the Manual

This manual is intended for all users who want to learn how to use Nero StartSmart. It is process-based and explains how to achieve a specific objective on a step-by-step basis.

To make best use of this documentation, please note the following conventions:

	Indicates warnings, preconditions or instructions that have to be precisely followed.
	Indicates additional information or advice.
1. Start ...	The number at the beginning of a line indicates a prompt for action. Carry out these actions in the order specified.
	Indicates an intermediate result.
	Indicates a result.
OK	Indicates text passages or buttons that appear in the program interface. They are shown in boldface.
(see...)	Indicates references to other chapters. They are executed as links and are shown in red and underlined.
[...]	Indicates keyboard shortcuts for entering commands.

1.2 About Nero StartSmart

Nero StartSmart is an easy to use command center. It acts as an application launcher: You merely have to select the desired category (e.g. Music) and the desired task to automatically launch the corresponding application.


In addition you can work directly with Nero StartSmart: So-called quick tasks provide frequently-used functions such as burning, ripping, and copying.

1.3 Nero StartSmart Versions

Nero StartSmart is available in versions with different features. In addition to the full Nero StartSmart version, there are other versions with restricted features.

Nero StartSmart Essentials does not offer the following features:

- Audio Burning
- Music title recognition with Gracenote (not included in standard functionality)

Features that are not available in the Essentials versions are indicated by the  icon. The icon offers you upgrade possibilities, and gives information about it.



Gracenote Plug-in

You will need the Gracenote Plug-in to identify single audio files.

You can obtain the plug-in at www.nero.com. The plug-in is already included in the full version.

In addition, the encoding and decoding formats in Nero StartSmart Essentials are restricted. The mp3PRO plug-in is included as trial version.



mp3PRO Plug-in


You will need the mp3PRO Plug-in for unlimited MP3 and mp3PRO encoding/decoding.

You can obtain the plug-in at www.nero.com. The plug-in is already included in the full version.



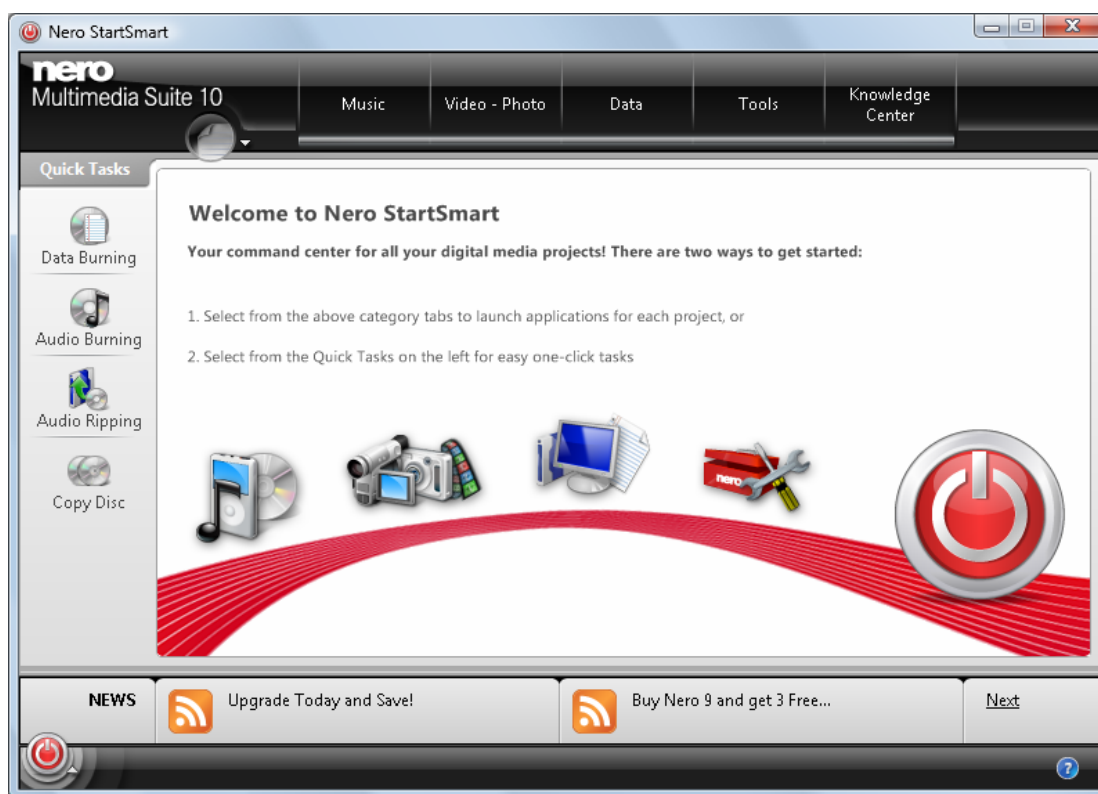
The **Knowledge Center** tab in the Essentials version provides links to upgrade options and information about these options. Upgrading your Essentials version will give you the full version with all the functions.

2 Starting Nero StartSmart

The Nero StartSmart icon appears on your computer's desktop after installing Nero Multimedia Suite. Double-click the Nero StartSmart icon  to open the Nero StartSmart window.




Nero StartSmart provides easy access to all Nero Multimedia Suite applications and, when installed, to Nero BackItUp & Burn and Nero Vision Xtra applications.

3 Start Screen



Nero StartSmart start window

The following buttons are available:


nero Multimedia Suite 10	Opens the Nero Web site www.nero.com where you can get more information about Nero products.
	Displays a menu in which you can open the options for Nero StartSmart, open the help and display online tutorials, and end the application.
	Displays a selection list of Nero applications and tools that can be opened directly by clicking them.
	Displays online help.

The tabs in the top area of the screen provide quick and easy access to Nero applications. They are grouped into categories (**Music**, **Video - Photo**, **Data**, **Tools**) where frequently occurring tasks have been assembled. The **Knowledge Center** tab offers quick and easy access to Web sites where you can get support, view online tutorials or download manuals.


The menu icons on the left side of the Nero StartSmart start screen each represent the so-called **Quick Tasks**. These are optimally pre-configured, frequently-used processes that can

be run directly in Nero StartSmart without having to launch another Nero application. With Nero StartSmart you can burn a data disc, burn a music disc (e.g. an Audio CD), save audio files from an Audio CD to hard drive, or copy a disc.

The **News** area at the bottom of the Nero StartSmart screen displays the news from the newsfeeds to which you have subscribed. The following buttons are available in the **News** area:

News	Opens the newsfeed options, where you can subscribe to newsfeeds.
	Displays the complete news from the newsfeed.
Next	Opens the next headline of a news item in the newsfeed.





See also

-  Burn Data Disc Screen → 11
-  Audio Burning Screen → 14
-  Audio Ripping Screen → 19
-  Copy Disc Screen → 26
-  Options → 36
-  Quick Tasks → 10





4 Quick Tasks

Quick tasks are pre-configured, frequently-used processes that can be run directly in Nero StartSmart without having to launch another Nero application. You can quickly and easily burn data discs or Audio CDs, save audio files from Audio CDs to a hard drive, and copy discs.

The following quick tasks are available:

-  **Data Burning:**
Displays the **Burn Data Disc** screen. Here, you can quickly burn a selection of files. First name the disc and select a destination drive, add the files to be burned, and click **Burn**.
-  **Audio Burning:**
Displays the **Audio Burning** screen. Here, you can quickly and easily create Audio CDs, MP3 Jukebox discs, or Jukebox discs in the Nero Digital cbn Audio+ format.
-  **Audio Ripping:**
Displays the **Rip Audio CD** screen. Select the destination drive, output file format, and the target directory, and click **Rip**. It's that fast and easy to save tracks from an Audio CD.
-  **Copy Disc:**
Displays the **Copy Disc** screen. Here, you only need to specify the source and destination drives and click **Copy** to get a copy of your disc.

See also

-  [Burn Data Disc Screen → 11](#)
-  [Audio Burning Screen → 14](#)
-  [Audio Ripping Screen → 19](#)
-  [Copy Disc Screen → 26](#)

4.1 Data Burning


4.1.1 Burn Data Disc Screen

You can create data discs with just a few clicks of your mouse.



Burn Data Disc screen

The following setting options are available:

Input field Disc name	The desired name of the disc to be burned is entered here.
Drop-down menu Destination drive	Allows you to select the drive you would like to use for burning. The Image Recorder entry creates an image file that is initially stored on the computer under the path shown in the adjacent text box. The image file can be burned to a disc later. The drop-down menu is available if there is more than one drive, or if the Image Recorder is enabled.
	Displays the contents of the higher-level folder for the selected file in the contents area.



	Creates a new folder in the contents area.
Button Add	Opens a window in which you can select files to be added to the content of your disc by clicking the mouse. They are displayed in the contents list of the Burn Data Disc screen when you click Open . The capacity bar indicates the total size of the listed files in MB.
Button Delete	Removes the selected entries from the contents list.
	Opens the options for the Data Burning quick task.



Image file

An image refers to a single file on the hard drive that contains the image of a complete disc. Creating an image file is especially useful when you do not have an available recorder or a blank disc. Later on you can use an application like Nero Express to burn the image to disc. Further information can be found in the Nero Express manual.

See also

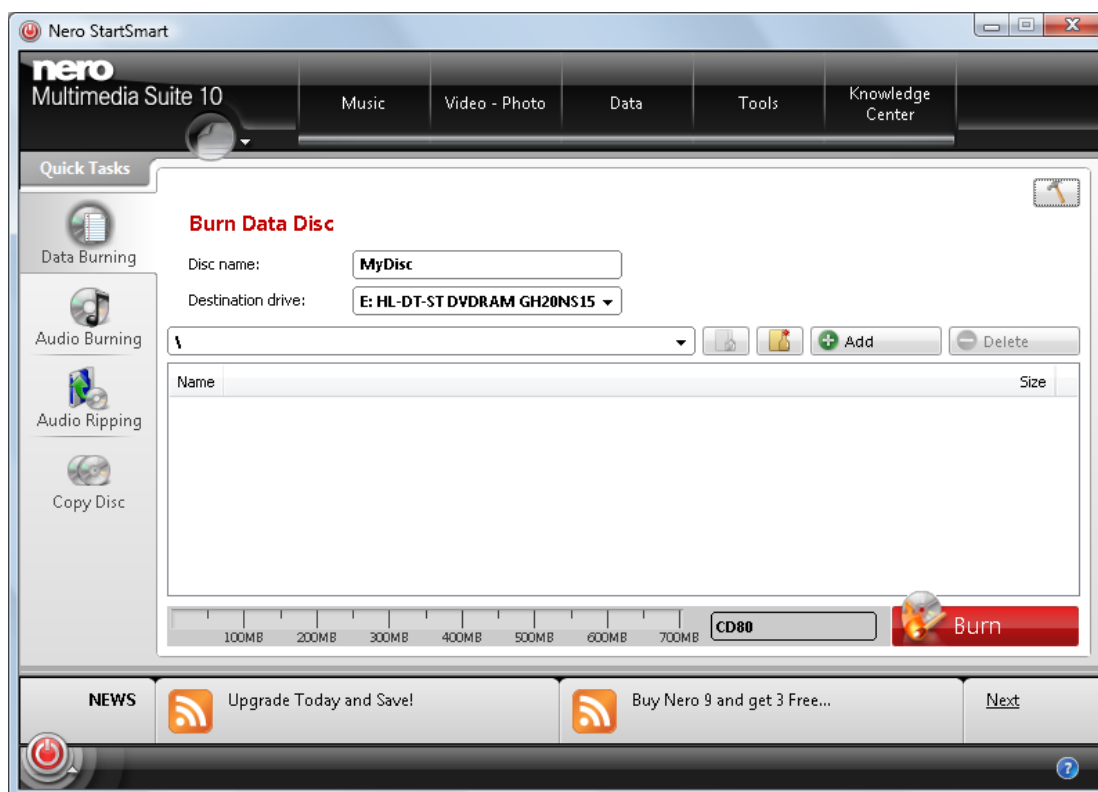
 Options → 36

4.1.2 Burning a Data Disc

With Nero StartSmart you can compile and burn all types of files and folders. Depending on your installed burner, you can burn a data CD, data DVD or data Blu-ray Disc.

To burn a data disc, proceed as follows:

1. Click the **Data Burning** menu icon.
→ The **Burn Data Disc** screen is displayed.



Burn Data Disc

2. Click the **Add** button.
→ The **Add files and folders** window is opened.
3. Select the files that you want to burn to disc.
4. Click the **Add** button.
→ The files selected are listed in the **Burn Data Disc** screen. A capacity bar displays the total length of the files to be burned to disc.
The **Add Files and Folders** window stays in the foreground until you close it.
5. If you want to delete a file, choose the desired file and click the **Delete** button.
→ The selected file is removed from the list.
6. Select a burner from the **Destination drive** drop-down menu.

7. If you want to include a name for the disc, enter a name in the **Disc name** input field.
8. Click the **Burn** button.
 - A window is opened and prompts you to insert a blank recordable disc into the recorder.
9. Insert a blank recordable disc into the recorder and click the **Load** button.
 - A progress bar is displayed at the bottom left of the screen. When the burn process is finished, a window is opened.
10. Click the **OK** button.
 - You have burned a data disc that contains the selected files.

4.2 Audio Burning

4.2.1 Audio Burning Screen

You can create audio discs here with just a few mouse clicks.

- **Audio CD**

Standard Audio CD that can be played on all standard playback devices, such as home and car stereo equipment. You can select songs from your hard drive or from other Audio CDs and burn them to the new Audio CD. To compile an Audio CD, source files with different audio formats (e.g. MP4, MP3 or WMA) are automatically converted into Audio CD format before being burned.

- **MP3 Jukebox Disc**

Audio disc with audio files in MP3 format that can be played on all computers and MP3 playback devices.

- **Nero Digital™ Audio+ (NDA+) Jukebox Disc**

Audio disc with audio files in Nero Digital Audio format that requires little storage space and has surprisingly high sound quality. This type of audio disc can be played on all playback devices that support the Nero Digital™ Audio format.

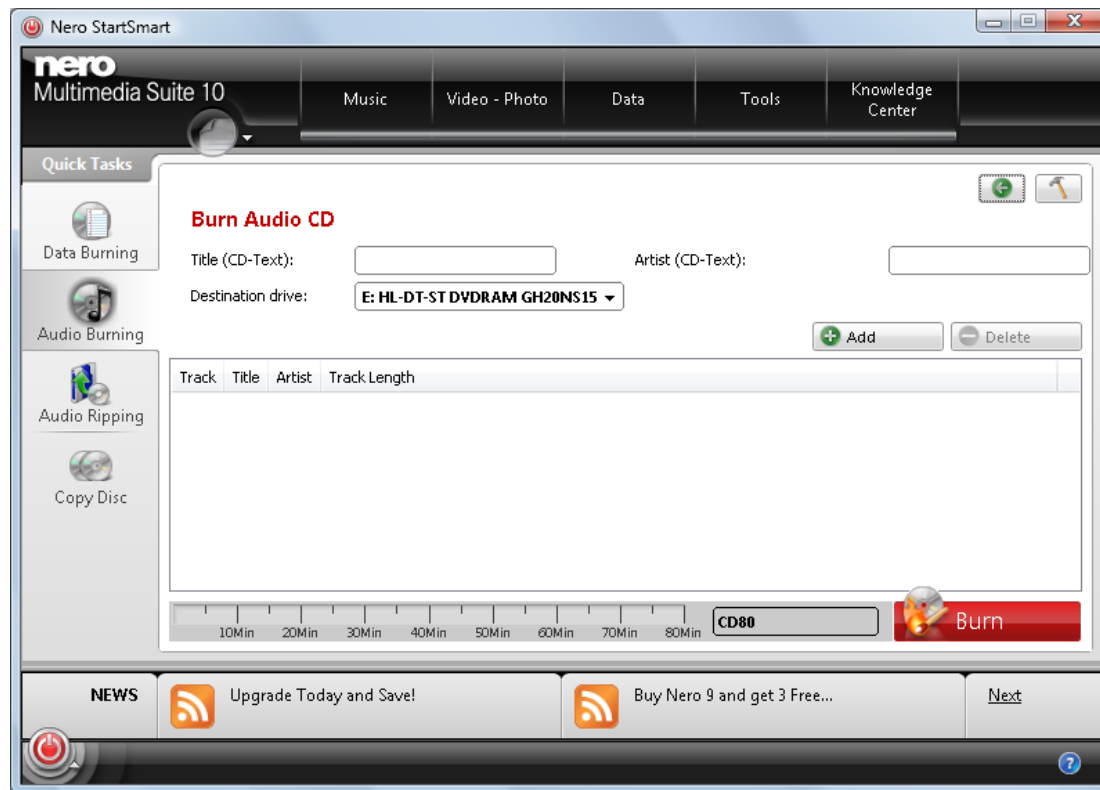


mp3PRO Plug-in

You will need the mp3PRO Plug-in for unlimited MP3 and mp3PRO encoding/decoding.

You can obtain the plug-in at www.nero.com. The plug-in is already included in the full version.

The creation process is nearly identical for all audio discs.



Burn Audio Disc screen

The following setting options are available:

Input field Title (CD-Text)	Enter the desired name for the Audio CD to be burned. This text appears in the display of the playback device during playback. Only available when creating an Audio CD.
Input field Artist (CD-Text)	Enter the artist name for the Audio CD to be burned. This text appears in the display of the playback device during playback. Only available when creating an Audio CD.
Input field Disc name	Enter a name for the disc to be created. This text appears in the display of the playback device during playback. Only available when creating a Jukebox disc.
Drop-down menu Destination drive	Allows you to select the drive you would like to use for burning. The Image Recorder entry creates an image file that is initially stored on the computer under the path shown in the adjacent text field. The image can be burned to a CD later. The drop-down menu is available if there is more than one drive, or if the Image Recorder is enabled.


Button Add	Opens a window in which you can select audio files to be added to the content of your audio CD by clicking the mouse. Click the Open button to view the contents list of the Burn Audio CD screen. The capacity bar indicates the total length of the listed songs in minutes.
Button Delete	Removes the selected entries from the contents list.
Button Burn	Starts the burn process or the creation of an image file.
	Opens the options for the Audio Burning quick task.



Image file

An image refers to a single file on the hard drive that contains the image of a complete disc. Creating an image file is especially useful when you do not have an available recorder or a blank disc. Later on you can use an application like Nero Express to burn the image to disc. Further information can be found in the Nero Express manual.

See also

 Options → 36

4.2.2 Burning an Audio CD

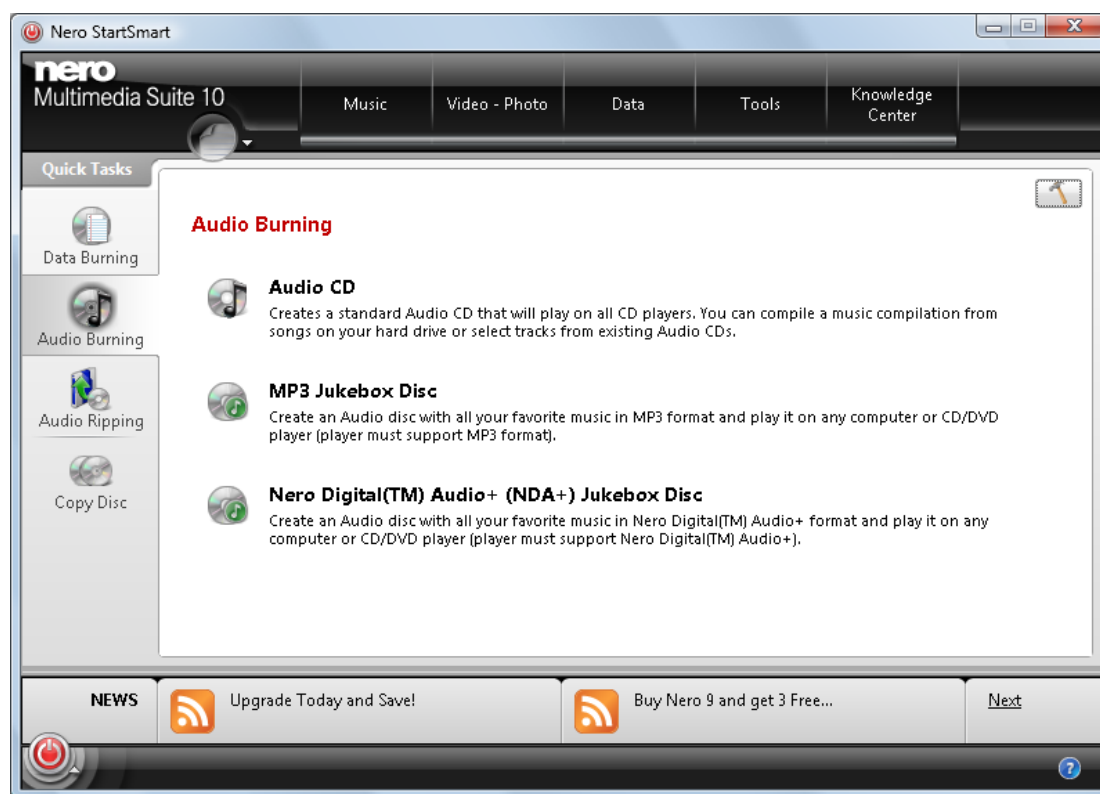
In Nero StartSmart, you have the option of selecting audio files from your hard drive to burn an Audio CD that can be played on all standard playback devices. Before burning the Audio CD, the source files in various audio formats (e.g. MP4, or WMA) are automatically converted into the Audio CD format.



Some CD players cannot play CD-RWs. Use CD-R discs to burn Audio CDs.

To burn an Audio CD, proceed as follows:

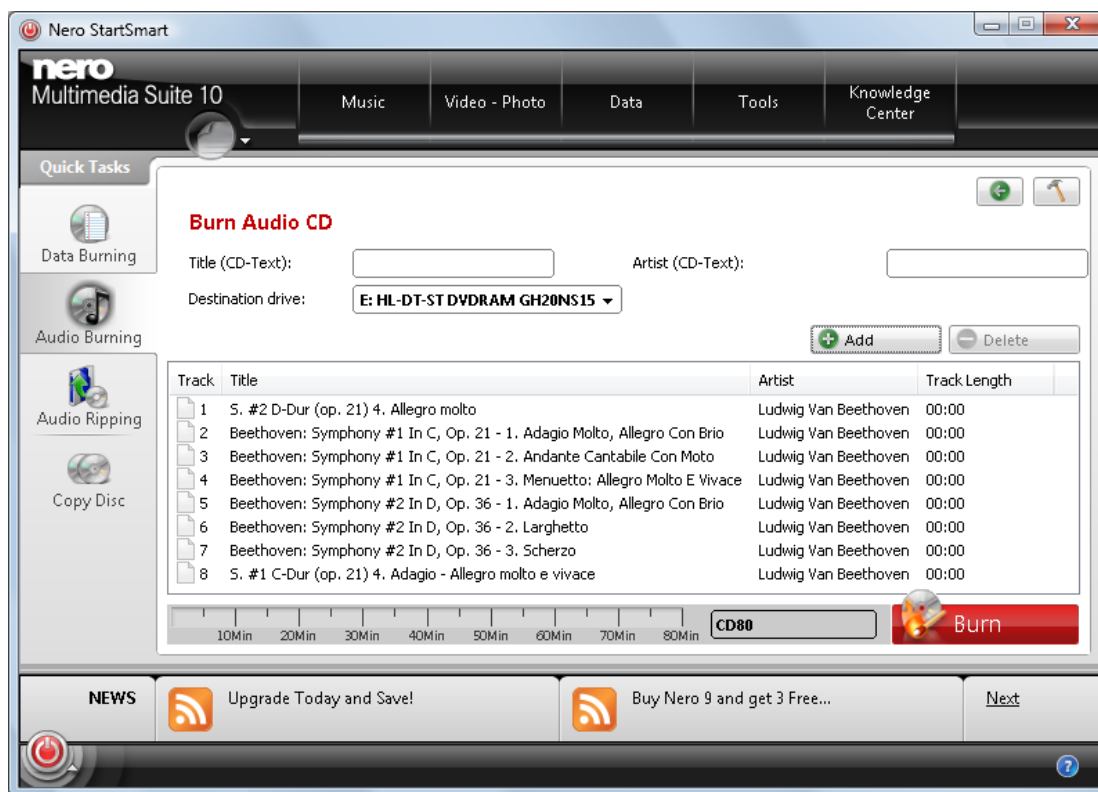
1. Click the **Audio Burning** menu icon.
→ The **Audio Burning** screen is displayed.



Audio Burning screen

2. Click the **Audio CD** option.
→ The **Burn Audio CD** screen is displayed.
3. Click the **Add** button.
→ The **Add files and folders** window is opened.

4. Select the audio files that you want to burn to CD. You can select audio files from CDs or from your hard drive.
5. Click the **Add** button.
 - The audio files selected are listed in the **Burn Audio CD** screen. A capacity bar displays the total length of the music files to be burned to CD in minutes. The **Add Files and Folders** window stays in the foreground until you close it.



Burn Audio CD with Audio Files screen



If the capacity bar is displayed in green, all audio files on the CD can be burned. If the capacity bar is red, not all audio files fit on the CD. You have the option of deleting audio files from the list.

6. If you want to delete an audio file, choose the desired audio file and click the **Delete** button.
 - The selected audio file is removed from the list.
7. Select a burner from the **Destination drive** drop-down menu.
8. If you want to include a CD title, enter a name in the **Title (CD-Text)** input field.
9. If you want to include an artist, enter a name in the **Artist (CD-Text)** input field.
10. Click the **Burn** button.
 - A window is opened and prompts you to insert a blank recordable CD into the recorder.

11. Insert a blank recordable CD into the recorder and click the **Load** button.
 - A progress bar is displayed at the bottom left of the screen. When the burn process is finished, a window is opened.
12. Click the **OK** button.
 - You have burned an Audio CD that contains the selected audio files.

4.3 Audio Ripping

4.3.1 Audio Ripping Screen

The **Rip Audio CD** screen displays the audio files available on the Audio CD. You can save the audio files from an Audio CD to the hard drive. The files are encoded, i.e. converted into a format that the computer can read. The audio file is usually compressed.

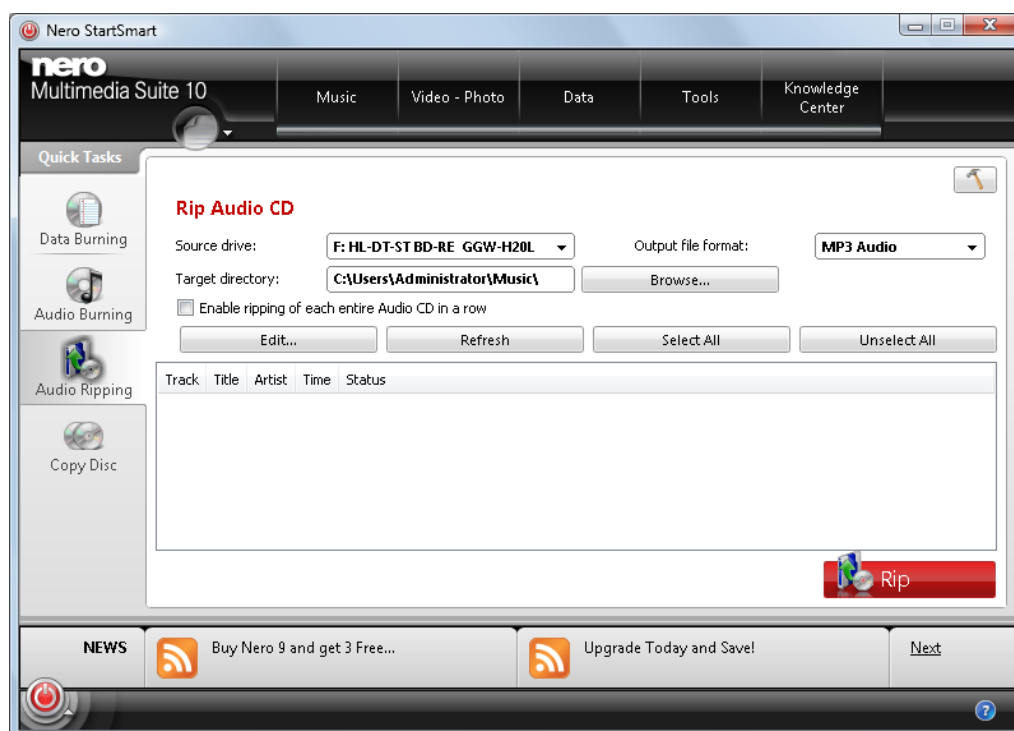
The Audio CD can be automatically identified with Gracenote. So-called metadata, i.e. information such as title, genre, and track title, is accessed by the Gracenote Media Database and associated to the tracks. That way you have audio files that are accurately and fully named after the encoding process.



Gracenote Plug-in


You will need the Gracenote Plug-in to identify single audio files.

You can obtain the plug-in at www.nero.com. The plug-in is already included in the full version.



Rip Audio CD screen

The following setting options are available:

Drop-down menu Source drive	You can choose the drive in which the CD containing the tracks to convert was inserted.
Drop-down menu Output file format	<p>You can choose the format in which the tracks should be saved. The following formats are available:</p> <p>AIFF Audio: An uncompressed audio file format with a large file size but high sound quality</p> <p>FLAC Audio: A lossless audio format with high sound quality</p> <p>MP3 Audio: Widely-used format that can be played by all standard computers and MP3 players</p> <p>Nero Digital: Format with an especially small file size and high sound quality</p> <p>OGG Vorbis: Format with a small file size and good sound quality</p> <p>WAVE: Quasi-standard for Microsoft systems</p>
Input field Target directory	You can choose the folder in which the tracks should be saved.
Check box Enable ripping of each entire Audio CD in a row	Saves the tracks from any number of Audio CDs, one after the other, in the selected target directory; a separate folder is created for the tracks from each Audio CD.
Button Edit Metadata	Opens the Edit meta data window. Here, you can edit the Audio CD metadata sent by Gracenote. You can enter the metadata if no entry for your Audio CD exists in the Gracenote Media Database. This metadata is sent to Gracenote, and added to the Gracenote Media Database.
Button Refresh	Sends a new query to the Gracenote Media Database and completes the Audio CD's metadata including artist, title name, and genre if a matching entry exists in the database.
Button Select All	Selects the entire tracklist, i.e. all audio tracks.
Button Unselect All	Deselects the entire tracklist.
Button Save	Starts the save process.
	Opens the options for the Rip Audio CD quick task.



Music recognition technology and related data are provided by Gracenote®. Gracenote is the industry standard in music recognition technology and related content delivery. For more information, please visit www.gracenote.com.

See also

Options → 36

4.3.2 Converting Audio CDs to MP3s



mp3PRO Plug-in

You will need the mp3PRO Plug-in for unlimited MP3 and mp3PRO encoding/decoding.

You can obtain the plug-in at www.nero.com. The plug-in is already included in the full version.

To save the audio files from an Audio CD to the hard drive, proceed as follows:

1. Click the **Audio Ripping** menu icon.
→ The **Rip Audio CD** screen is displayed and a window asks you to insert an Audio CD into a drive.



Rip Audio CD screen

2. Insert an Audio CD into a drive and click the **OK** button.
3. In the **Source drive** drop-down menu, select the drive in which your Audio CD is located.
 - The disc is analyzed and the required information is sent to Gracenote. If an exact matching entry is found in the Gracenote Media Database, that metadata will be used and displayed.
 - If several entries are found or the found entry is ambiguous, then the **Matches** window is opened and the metadata records in question are displayed.
4. Select the metadata record that matches your Audio CD.
5. Click the **Send New Data** button if none of the metadata records match your Audio CD.
 - The **Edit MetaData** window is opened.

Track	Title	Artist	Length
1	Beethoven: Symphony #1 In C...	Barry Wordsworth: Royal ...	00:09:13
2	Beethoven: Symphony #1 In C...	Barry Wordsworth: Royal ...	00:08:25
3	Beethoven: Symphony #1 In C...	Barry Wordsworth: Royal ...	00:03:21
4	Beethoven: Symphony #1 In C...	Barry Wordsworth: Royal ...	00:05:50
5	Beethoven: Symphony #2 In D...	Barry Wordsworth: Royal ...	00:13:03
6	Beethoven: Symphony #2 In D...	Barry Wordsworth: Royal ...	00:11:30
7	Beethoven: Symphony #2 In D...	Barry Wordsworth: Royal ...	00:03:43
8	Beethoven: Symphony #2 In D...	Barry Wordsworth: Royal ...	00:06:29

Album: Beethoven: Symphonies [Disc 1]

Album Artist: Barry Wordsworth: Royal Philharmonic O

Year: 1996

Genre: Other Classical

Browse...

Advanced Options Submit Cancel

Edit Metadata

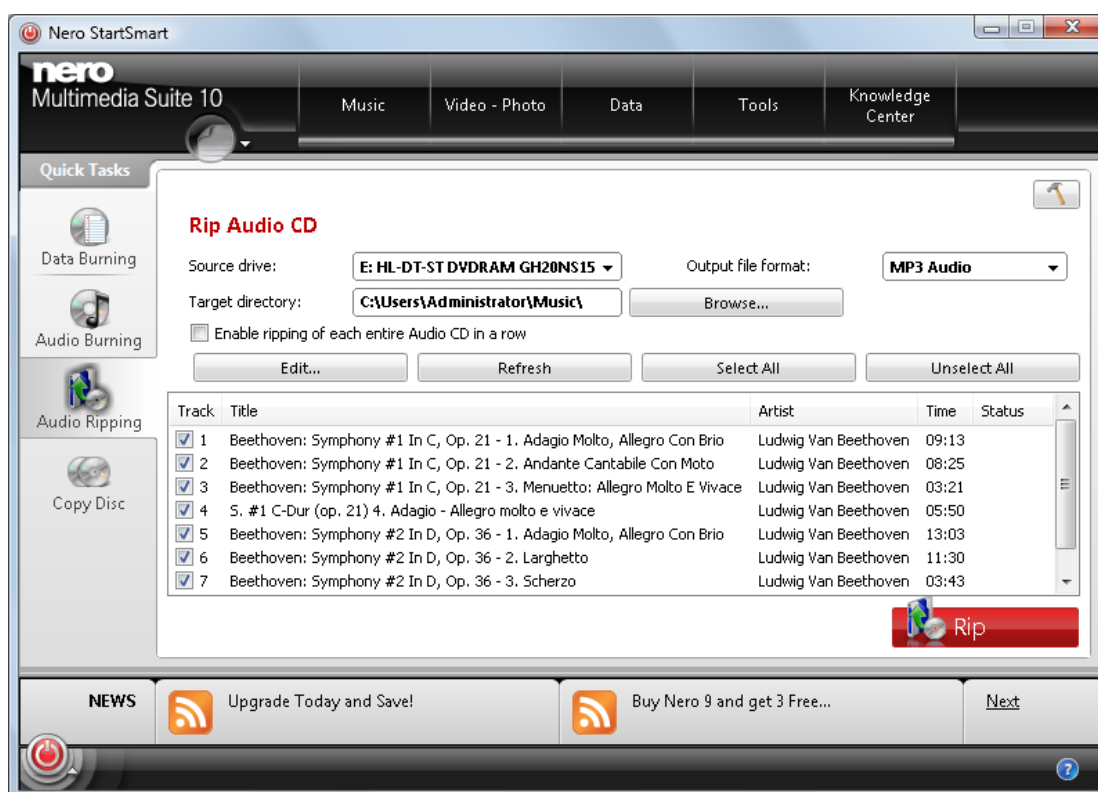


The **Edit Meta Data** window also opens if no matching entry is found in the database but you want to enter the metadata and make it available.

6. If necessary, edit the metadata, e.g. title, artist, album title, year, and genre.
7. Click the **Advanced Options** button if you want to add additional information.
 - The **Gracenote MusicID Information** window, which originates from Gracenote, opens. After entering the additional information you have to close this window so that the **Edit Metadata** window is displayed again.

8. Click the **Submit Data** button.

- If you have changed the Audio CD's metadata or filled it in for the first time, the changes are sent to Gracenote and added to the Gracenote Media Database.
- The **Edit Metadata** window is closed and the information is passed on to the **Rip Audio CD** screen.



Rip Audio CD screen with audio files

9. Select the tracks that you want to save on the hard drive.

1. If you want to copy all files on the disc to your hard drive, click the **Select All** button.
2. If you want to deselect the files, click the **Unselect All** button.
3. If you only want to select individual audio files, enable the check box in front of the respective audio files.

10. Choose a file format in the **Output file format** drop-down menu.

11. Click the **Browse** button and choose a target directory in which the audio files should be saved.

12. Click the **Rip** button.

- The selected audio files are copied and converted into the selected file format. A folder with the name of the album is created inside the desired folder. The audio files are saved in this folder and named by artist and title. Metadata that is identified with Gracenote is written to the audio file.
- A progress bar at the bottom left of the screen and information on the screen show the

progress of the copy process. After the copy process is finished, a window is opened with the message *"Ripping was successful!"*.



If you want to save audio files from several Audio CDs, enable the **Enable ripping of each entire Audio CD in a row** check box. The copy process then runs automatically for the other Audio CDs as described here. The settings that you defined at the beginning are used. A dialog box is displayed at the end of the copy process and prompts you to insert another Audio CD or to cancel the operation.

When automatically copying more than one Audio CD in a row, only the entire Audio CD can be copied.

➔ You have copied audio files from one Audio CD to your hard drive in the required file format.

4.3.3 Automatic Music Recognition

With Gracenote MusicID Nero StartSmart can identify music files. So called metadata such as artist, title, and genre are accessed from the Gracenote Media Database and displayed in Nero StartSmart. The identified metadata is written to the music file and is then available.

Identification is possible for single audio files as well as complete original Audio CDs.

If the metadata of the Audio CD is not yet included in the database then you can enter it and make it available. The metadata is sent to Gracenote and added into the database.

With Gracenote you can have audio files identified out of any sort of audio compilation. This is particularly useful when audio files are not named or are only partially named. The metadata that is made available by Gracenote is used for the compilation and is written into the audio files. In this way your music collection is correctly tagged with all information.

During the following actions, original Audio CDs can be automatically identified in Nero StartSmart with Gracenote MusicID.

- Copying Audio CD
- Saving Tracks from the Audio CD to Hard Drive



Music recognition technology and related data are provided by Gracenote®. Gracenote is the industry standard in music recognition technology and related content delivery. For more information, please visit www.gracenote.com.

4.3.4 Identifying Audio Files

You can have the added audio files in the music compilations identified with Gracenote and access metadata such as artist and title from the Gracenote Media Database.



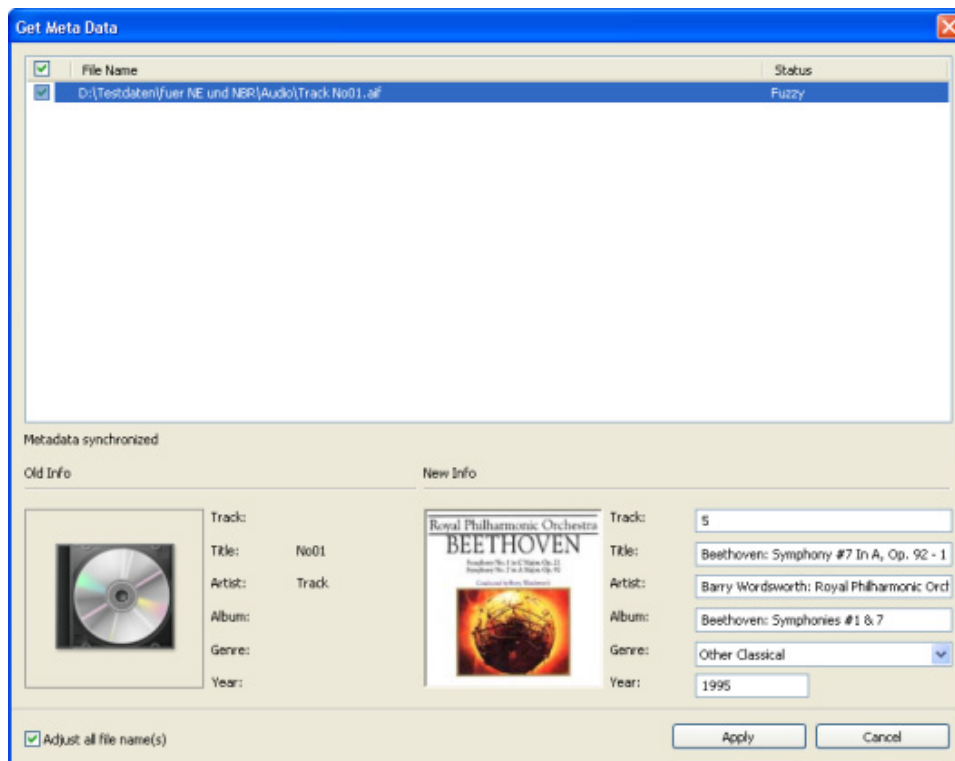
Gracenote Plug-in

You will need the Gracenote Plug-in to identify single audio files.

You can obtain the plug-in at www.nero.com. The plug-in is already included in the full version.

To do this, proceed as follows:

1. Select the type of compilation to burn a music CD.
→ The compilation screen is displayed.
2. Add audio files from the hard drive to the music compilation.
3. Select one or more audio files in the compilation.
4. Right-click to open the context menu.
5. Select the **Get Meta Data** entry.
→ The audio files are analyzed and the required information is sent to Gracenote. The **Edit Meta Data** window is opened. The metadata received by Gracenote is displayed in the **New Info** area.



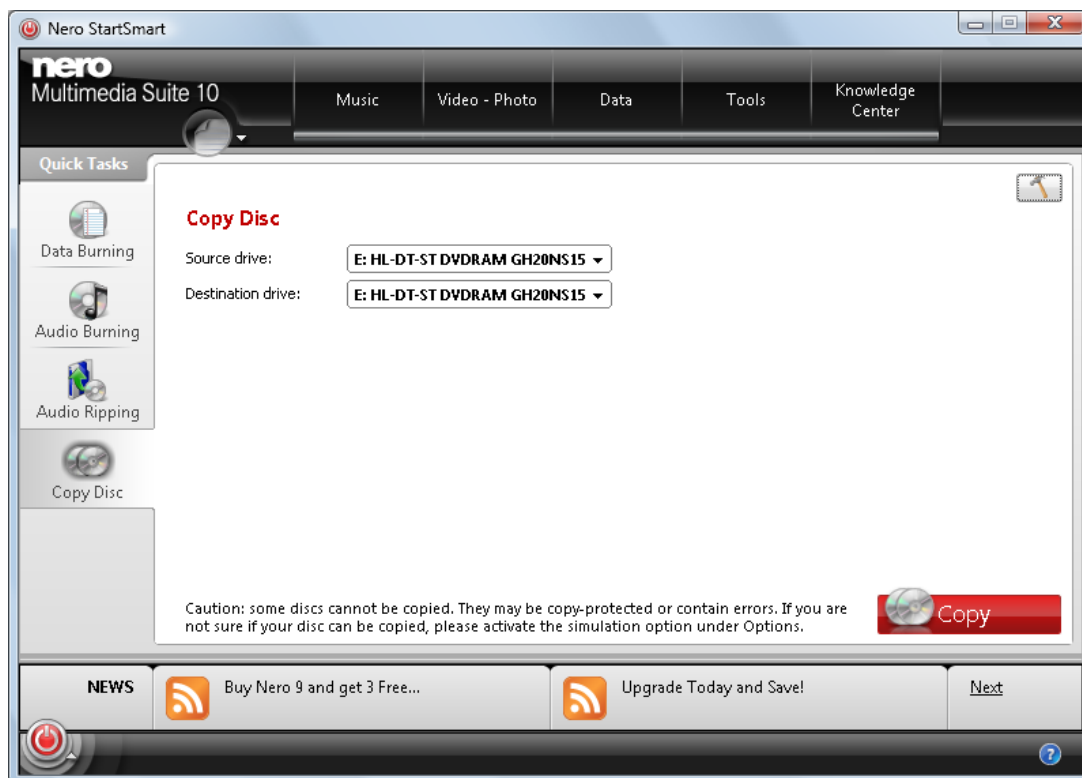
Edit Meta Data window

6. If necessary, edit the metadata, e.g. track number, title, artist, album title, year, and genre.
7. Click the **Apply** button.
→ The **Edit Meta Data** window is closed.
→ The metadata is written into the audio file and accordingly shown in Nero StartSmart. If the **Adjust all file name(s)** check box is selected, the file on hard disk is renamed accordingly (if technically possible).

4.4 Copy Disc

4.4.1 Copy Disc Screen


You can copy a disc very quickly here. Just insert a disc and click **Copy**. If you have more than one drive, drop-down menus in which you can choose the source and destination drives are displayed.






Copy Disc screen

The following setting options are available:

Drop-down menu Source drive	You can choose the drive in which the disc to be copied is inserted. Only available if you have more than one drive.
Drop-down menu Destination drive	<p>You can choose the drive with the recordable disc to which you want to burn the copy. All drives connected to your computer are listed. You can also select the Image Recorder entry to create an image of the disc to be copied, which can then be burnt to a disc at a later point in time. In this case, click the Browse button to choose the path in which to save the image file.</p> <p>The drop-down menu is available if there is more than one drive, or if the Image Recorder is enabled.</p>

Button Copy	Triggers the copying process or the process to create an image.
	Opens the options for the Copy Disc quick task.

See also

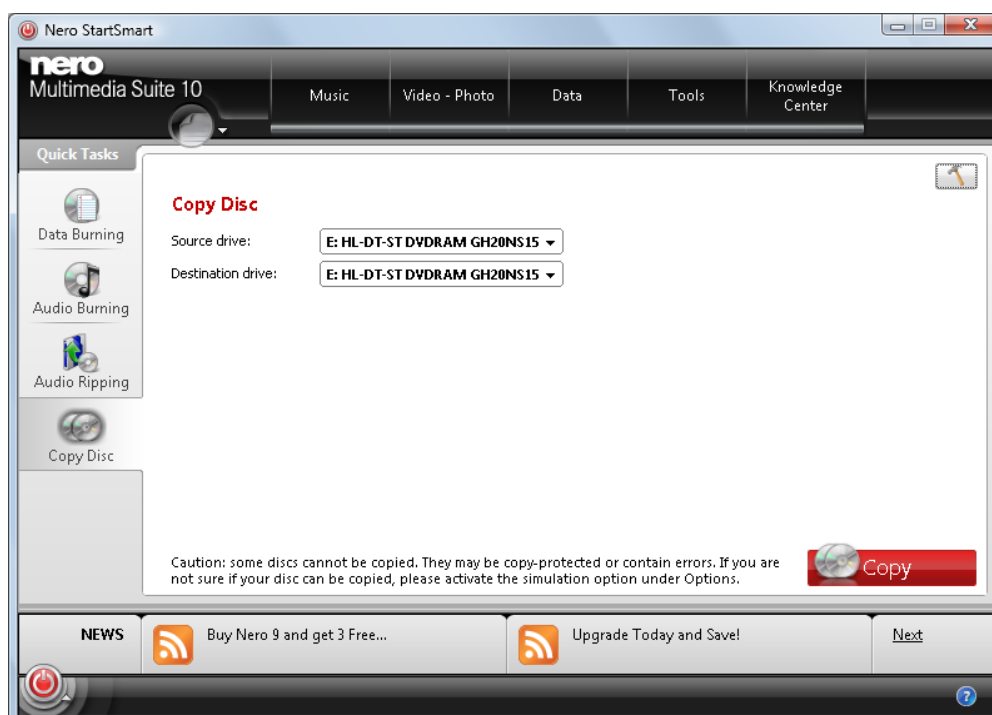
-  Options → 36
-  On-the-fly Copying → 28
-  Copy Over Image → 29

4.4.2 Copying a disc

With Nero StartSmart you can copy a disc. That means you make an exact copy of a source disc and burn it to a target disc. If your source disc is an Audio CD, for example, your copy will be an Audio CD as well. Depending on your installed burner, you can copy CDs, DVDs or Blu-ray Discs. The target disc must be the same disc type as the source disc. For example, you can copy a DVD only to a DVD. In any case, Nero StartSmart will give you a message when the disc type does not match.

To copy a disc, proceed as follows:

1. Click the **Copy Disc** menu icon.
→ The **Copy Disc** screen is displayed.



Copy Disc

2. Select the **Source drive** and the **Destination drive**.



If you want to copy the disc using the **Image Copy** method, choose the same drive for the source and the destination.

If you want to copy the disc using the **On-the-fly** method, choose different drives for the source and the destination.



If you only have one drive, the drop-down menus are not available. You therefore skip the step above.

Just insert the disc you want to copy and click the **Copy** button.

3. Insert the disc that you want to copy into the selected drive.

4. Insert a blank disc into the target drive if you are choosing different drives for copying (On-the-fly copy method).

5. Click the **Copy** button.

→ The copy process starts. A progress bar is displayed at the bottom left of the screen.

→ If you are using a single drive for copying, you will be prompted to remove the source disc and to insert a suitable blank disc after the image file has been written. The burn process then starts automatically.

→ When the copy and the burn process are finished, a window is opened.

6. Click the **OK** button.

→ You have copied a disc.

4.4.3 Methods of Copying

If you have more than one drive, there are two options for copying a disc

- On-the-fly, i.e. the disc to be copied and the recordable disc are in different drives
- Image copy, i.e. you use the same drive for the disc to be copied and the recordable disc

Each one of the methods can be better for different situations, depending on your requirements.

4.4.3.1 On-the-fly Copying

When using the on-the-fly method, insert the original disc into a drive and a recordable disc into the drive. The original disc in the drive is copied immediately without any time delay to the blank disc in the recorder. The on-the-fly method allows you to copy discs very quickly, and does not require any additional space on the disc.

In order to be able to use the on-the-fly method, you will need at least two drives: one for reading the disc and a disc burner for writing. The following requirements apply to the read drive and disc burner:

- The disc burner must feature buffer underrun protection, or the drive must be capable of delivering the data sufficiently quickly. The read speed should be at least twice as fast as the write speed.

- The read drive must be capable of delivering information on the number and type of sessions, otherwise Nero StartSmart may not be able to produce an exact copy.

If you want to copy Audio CDs, we recommend the copy image method because the quality of the read audio files can suffer depending on the drive.

4.4.3.2 Copy Over Image

With the copy over image method, an image of the original disc is saved to a file first. The image file is then burned to a blank disc. Copying using copy over image takes longer, but it often produces better results.

You must have sufficient storage space to use the copy over image method.

The copy over image method is particularly suitable in the following situations:

- Only one drive is available.
- You would like to make several copies of the same disc.
- You think it likely that read errors may have occurred on the source CD (for example because it is scratched).
- You attach importance to the best possible reproduction (particularly in relation to index positions and the quality of Audio CDs).

5 Tabs

Frequently occurring tasks have been assembled on tabs in the Nero StartSmart categories. All tasks are linked to Nero applications, as mentioned in the task text. Detailed information about the individual applications is available in the respective manuals, which are available for download from www.nero.com free of charge.

If you have not installed the respective application, the task will be unavailable. This status will be indicated by an exclamation mark.



The tasks mentioned here only fully apply to the full version as not all applications may be available in the Essentials version. If an application is unavailable in your Essentials version, it will be indicated with an upgrade icon. You can always upgrade your Essentials version at www.nero.com to get the full version with all the functions.

- **Music tab**

Contains the most important tasks for music, such as ripping, playing and burning Audio CDs, and recording and editing audio files.

- **Video - Photo tab**

Contains the most important tasks for video and photo, such as creating and burning videos and slide shows, playing videos and slideshows, and converting movies.

- **Data tab**

Contains the most important tasks for data, such as burning, copying, backup, and recovering.

- **Tools tab**

Contains tools that can be used to test your drive performance, analyze your drives and your system, and reduce drive noise.

- **Knowledge Center tab**

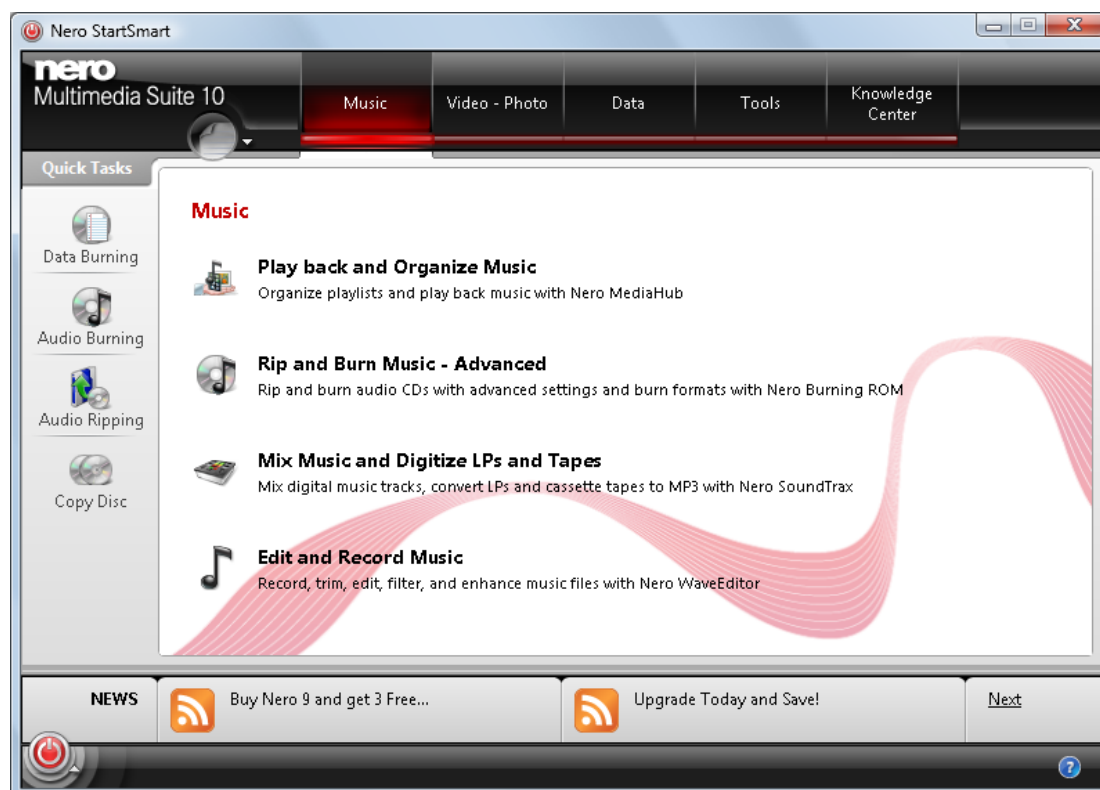
Offers links to Web sites where you can get support, view online tutorials, and download manuals.



The **Knowledge Center** tab in the Essentials version provides links to upgrade options and information about these options. Upgrading your Essentials version will give you the full version with all the functions.

5.1 Music Tab

Here you can perform tasks regarding music.



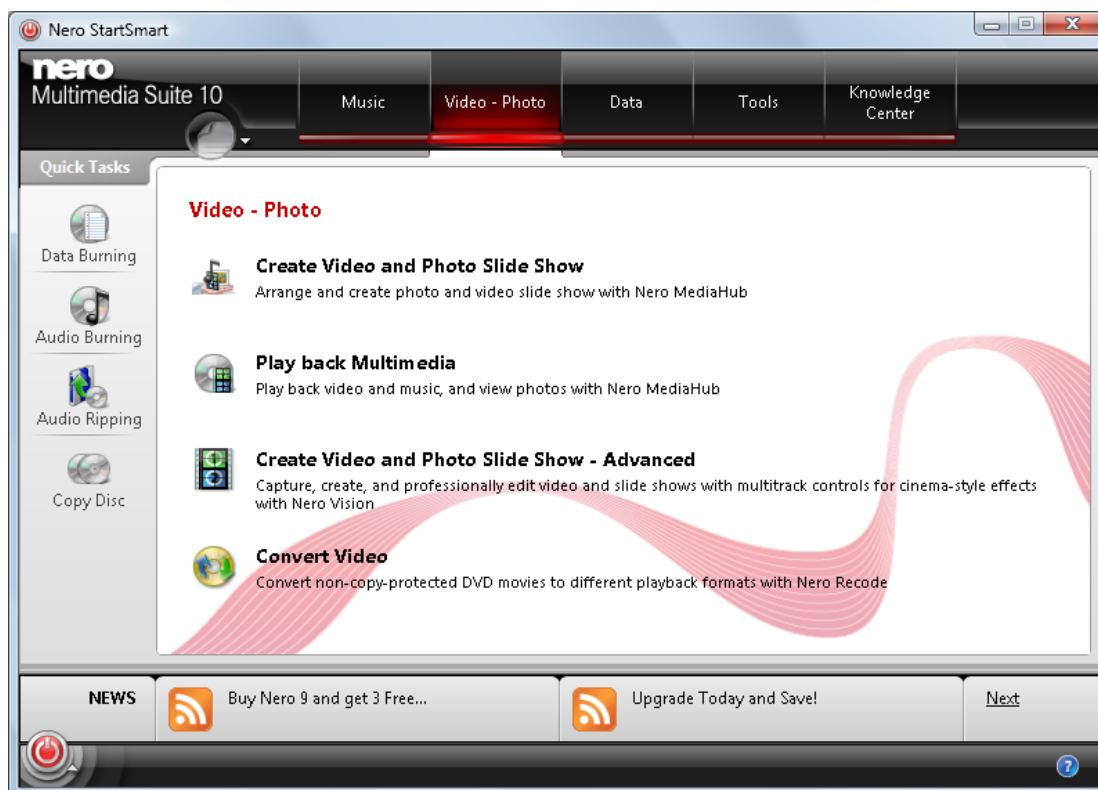
Music tab

The following tasks are available:

Play back and Organize Music	Opens Nero MediaHub. Here, you can play back your audio files in a convenient manner and also create playlists.
Rip and Burn Music – Advanced	Opens Nero Burning ROM. Here, you can create, burn, and rip Audio CDs. A wide range of file formats is supported.
Mix Music and Digitize LPs and Tapes	Opens Nero SoundTrax. Here, you can create music mixes in a virtual music studio with the help of wizards.
Edit and Record Music	Opens Nero WaveEditor. Here, you can edit and record music using a variety of filters and sound optimization methods.

5.2 Video, Photo Tab

Here you can perform tasks regarding video and photo.



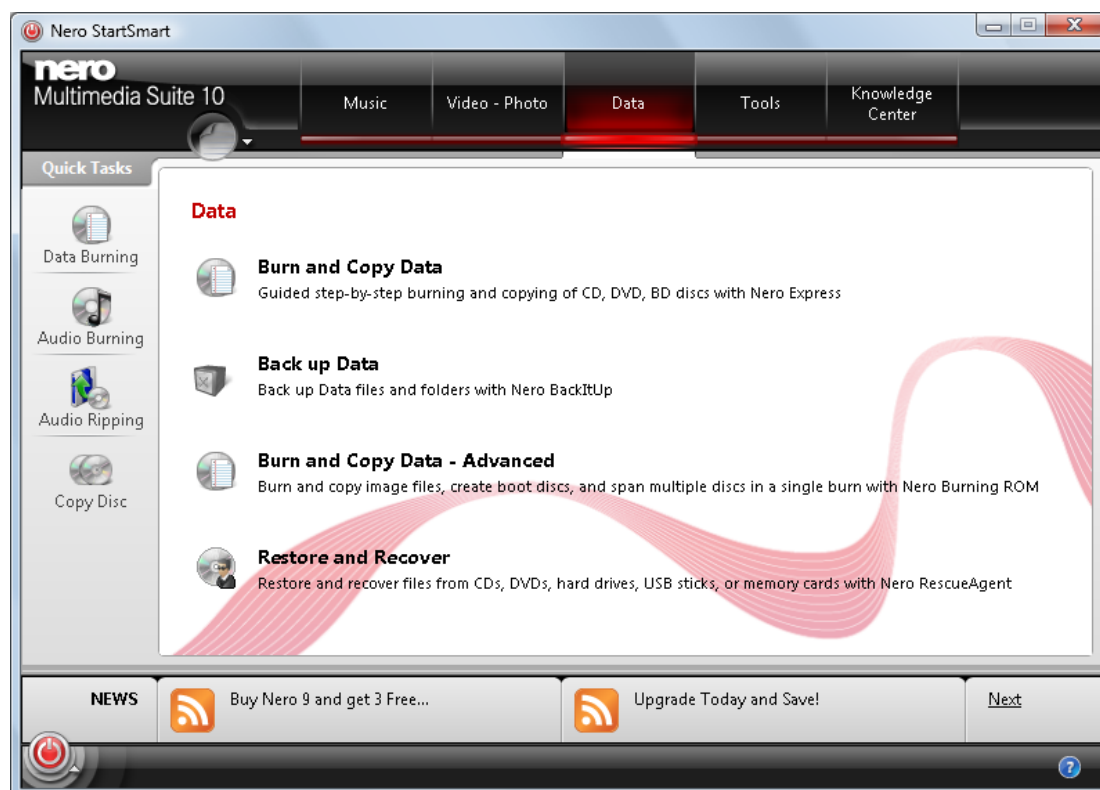
Video - Photo tab

The following tasks are available:

Create Video and Photo Slide Show	Opens Nero MediaHub. Here, you can easily create videos and slide shows.
Play back Multimedia	Opens Nero MediaHub. Here, you can play back your video files and pictures in a convenient manner.
Create Video and Photo Slide Show – Advanced	Opens Nero Vision. Here, you can create videos and slide shows. For your project you can set advanced options, such as multi track editing, and various professional effects and menus.
Convert Video	Opens Nero Recode. Here, you can convert DVD-Videos to different video formats.

5.3 Data Tab

Here you can perform tasks regarding data.



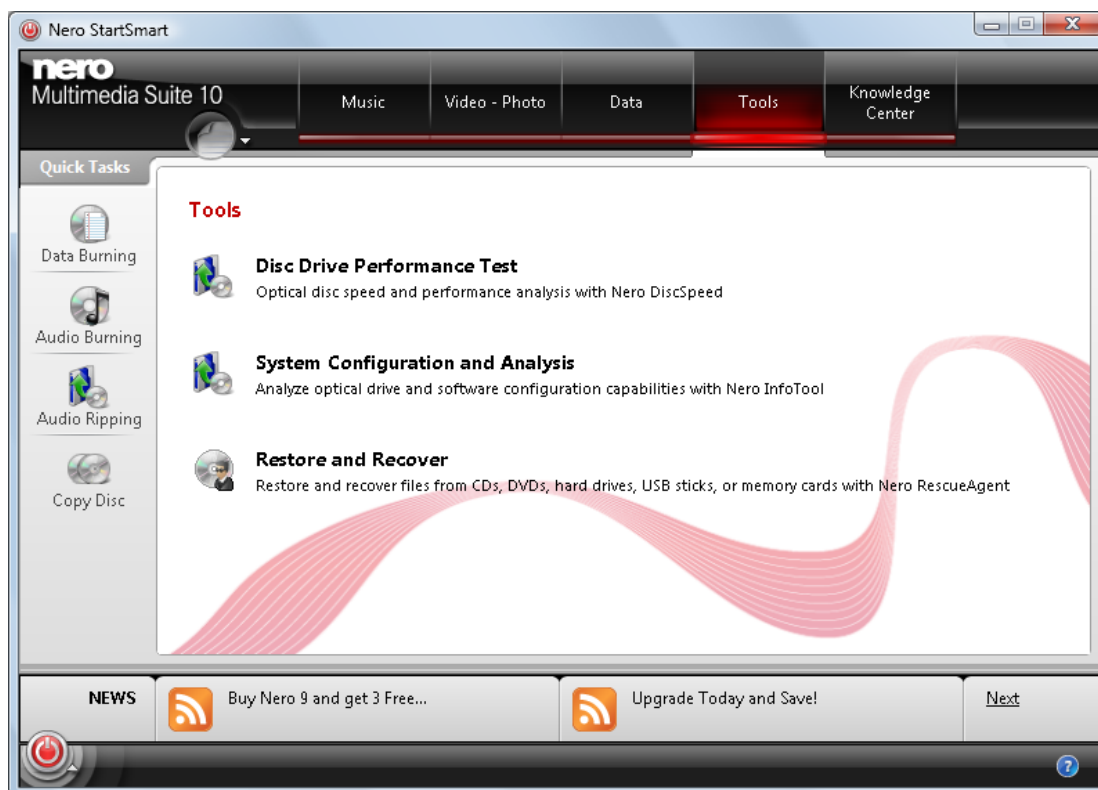
Data tab

The following tasks are available:

Burn and Copy Data	Opens Nero Express. Here, you can select the files for a data disc and burn them to CD, DVD, or Blu-ray Disc.
Back up Data	Opens Nero BackItUp. Here, you can choose files to back up and then initiate the backup process. You can also enable Autobackup, for instance, which will perform automatic backups of your data.
Burn and Copy Data – Advanced	Opens Nero Burning ROM. Here, you can select the files for a data disc and burn them to CD, DVD, or Blu-ray Disc. Advanced options can be applied to burn projects (e.g. defining the character set or splitting large files to multiple discs with the Nero DiscSpan compilation type).
Restore and Recover	Opens Nero RescueAgent. Here, you can quickly and easily recover files from storage media that, for instance, has been damaged by scratches or cannot be read correctly due to age.

5.4 Tools Tab

Here you can perform tasks with Nero tools.



Tools tab

The following tasks are available:

Disc Drive Performance Test	Opens Nero DiscSpeed. Here, you can test the speed and performance of your media or recorder and view the results in a graph or test log.
System Configuration and Analysis	Opens Nero InfoTool. Here, you can call up information about the most important features of installed drives, inserted discs, installed software, and much more. You obtain detailed data on drive properties such as firmware, buffer size, serial number, production date and the current DVD region code for DVD drives. Furthermore, Nero InfoTool tells you the name and version number of the operating system, the installed burning applications, and the hardware configuration of the computer.
Restore and Recover	Opens Nero RescueAgent. Here, you can quickly and easily recover files from storage media that, for instance, has been damaged by scratches or cannot be read correctly due to age.

5.5 Knowledge Center Tab

The **Knowledge Center** tab provides direct links to manuals, the tutorial of the month, the Nero community, and information about other Nero products, e.g. useful plug-ins.




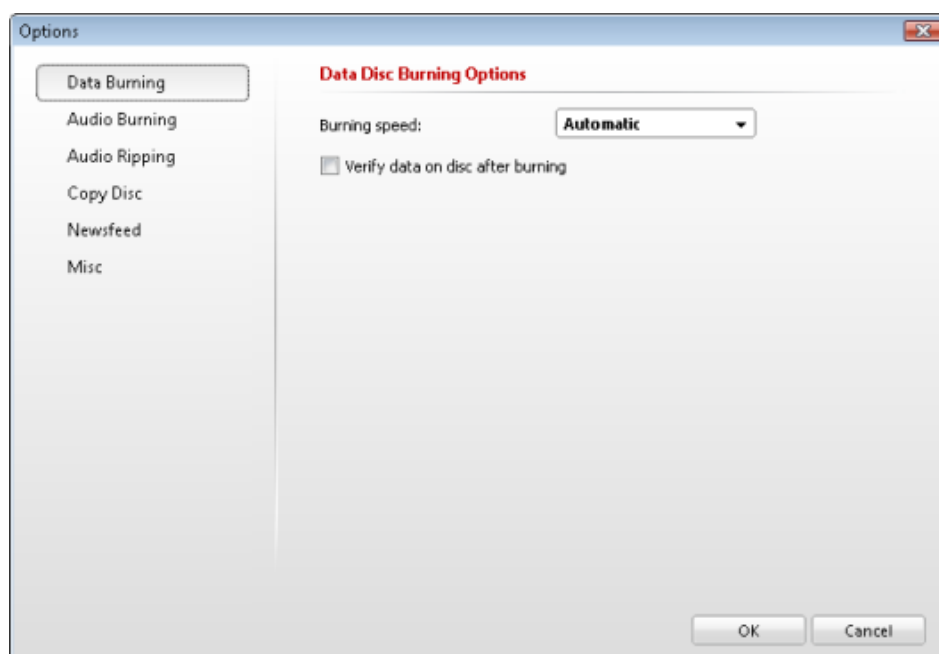
Knowledge Center tab



The **Knowledge Center** tab in the Essentials version provides links to upgrade options and information about these options. Upgrading your Essentials version will give you the full version with all the functions.

6 Options

In the **Options** window, you can define settings for the quick tasks and Nero StartSmart. Use the  button > **Options** to open the window.



Options window

The following entries are available:

Data Burning	Displays the Data Disc Burning Options screen. You can select the burn speed here and choose whether the data should be checked after burning.
Audio Burning	Displays the Burning Options screen. In this screen you can select the burn speed and determine whether the data should be checked after burning - separately for Audio CDs and Jukebox CDs.
Audio Ripping	Displays the Audio Ripping Options screen. You can specify the file format, the encoding quality, the read speed, and enable the Gracenote database. The Gracenote database is enabled by default.
Copy Disc	Displays the Copy Disc Options screen. You can select the burn speed, specify whether the data should be checked after burning, and whether the burn process should be simulated prior to burning. In addition you can specify whether the on-the-fly method should be used. You can also specify the storage path for the image file when copying over an image.

Newsfeed	Displays the Newsfeed Options screen. You can specify the interval after which the next newsfeed headline is displayed in the News area and decide to which newsfeeds you would like to subscribe (see Setting Up Newsfeeds → 37). The Nero feed is subscribed by default.
Misc	Displays the More Options screen. You can define whether Nero StartSmart is closed, remains open or is minimized when opening a Nero application. You can also specify whether the Nero StartSmart settings are saved when closed. In addition, you can enable the integrated <u>Image Recorder</u> for all applications and specify whether online content (e.g. Newsfeed and Knowledge Center) is allowed.



Burn and Read Speeds

The following burn and read speeds are available:

Minimum: Slowest speed for the most reliable burning.

Safety mode: Moderate speed with emphasis on safety.

Automatic: Optimal speed for the selected disc burner and the data to be burned.


Maximum: Maximum speed of selected disc burner.



The Image Recorder is also suitable for creating an image of a disc type not supported by the connected recorder. For example, you can therefore create a DVD image without having installed a DVD recorder. You can then write the image to a disc at any time.

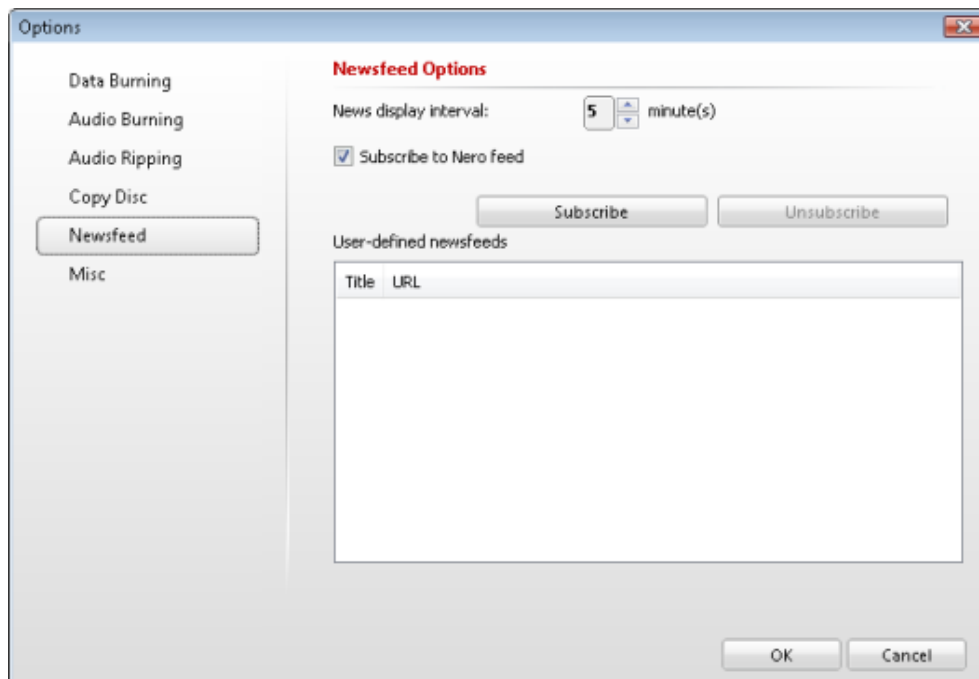
6.1 Setting Up Newsfeeds

Nero StartSmart can act as a newsfeed reader that displays the newsfeed to which you have subscribed in the **News** area. Only text feeds are supported. The Nero feed is displayed by default.

A so-called feed consists of a file that only includes the structured content as it might appear on a page but without layout, navigation, or other additional information. Its address can be purchased in the Internet. It is often indicated by the  icon. An example for a newsfeed is the Nero press release feed <http://rss.nero.com/nero-news-enu.xml>.

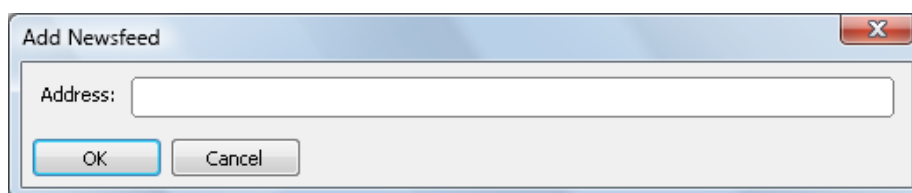
To subscribe to newsfeeds, proceed as follows:

1. Click the **Newsfeed** button in the **Options** window.
→ The **Newsfeed Options** screen is displayed.



Newsfeed Options window

2. Use the arrow keys to select the desired update interval. It is specified in minutes.
3. Select the corresponding check box if you want to subscribe to the Nero feed.
4. Click the **Subscribe** button to create a new newsfeed.
→ The **Add newsfeed** window is displayed.



5. Enter the address of the desired newsfeed in the **Address** text box and click the **OK** button.
→ You have subscribed to the new newsfeed. The newsfeed is displayed in the **User-defined newsfeeds** list.
 6. If you want to cancel a newsfeed subscription:
 1. Select the respective entry from the list in the **Newsfeed Options** window.
 2. Click the **Unsubscribe** button.
 3. Confirm your choice in the displayed dialog box.
→ You have unsubscribed from a newsfeed.
- You have set up newsfeed. The news items of the newsfeed you have subscribed to will be displayed in the **News** area in the Nero StartSmart screen.

7 Technical Information

7.1 System Requirements

Nero StartSmart is installed along with its suite. Its system requirements are the same. You can find more detailed information on the system requirements under www.nero.com.

- 16-bit Windows compatible sound card and speakers or headphones
- Optional: CD recorder

7.2 Disc Types

- CD
- DVD
- Blu-ray - burning only



You can find more information on Blu-ray support at www.nero.com/link.php?topic_id=416.



The actual entries that are available and the actual disc types (e.g. **DVD**) to which can be written depend on the selected recorder.

7.3 Disc Formats

- Data CD/DVD/Blu-ray Disc
- Jukebox Audio CD/DVD/Blu-ray Disc
- Audio CD
- Nero Image (NRG)
- CUE-Image [Import only]
- ISO-Image

7.4 Audio Formats and Codecs

- Advanced Audio Coding (AAC, M4A, MP4)
- Audio Interchange File Format (AIFF, AIF)
- Compact Disc Digital Audio (CDA)
- Moving Picture Experts Group-1 Audio Layer 3 (MP3)
- Moving Picture Experts Group-4 (MP4)
- Nero AAC Codec, Nero Digital (MP4)

- Resource Interchange File Format WAVE (WAV, WAVE)
- Windows Media Audio (WMA)
- Free Lossless Audio Codec (FLAC)
- OGG Vorbis (OGG, OGA)



mp3PRO Plug-in

You will need the mp3PRO Plug-in for unlimited MP3 and mp3PRO encoding/decoding.

You can obtain the plug-in at www.nero.com. The plug-in is already included in the full version.

7.5 Metadata

- Advanced Streaming Format (ASF)
- Moving Picture Experts Group-1 Audio Layer 3 (MP3)
- Nero AAC Codec, Nero Digital (MP4)
- OGG Vorbis (OGG, OGA)
- Resource Interchange File Format WAVE (WAV, WAVE)
- Windows Media Audio (WMA)
- ID3 Tags (v1.1/v2)

7.6 Feed Formats

- Nero StartSmart supports text feeds.
- Rich Site Summary (RSS 1.0)
- Really Simple Syndication (RSS 2.0)
- Atom Syndication Format (ASF 1.0)

8 Glossary

Buffer Underrun

A buffer underrun is an interruption in the data flow in the internal memory (e.g. of the recorder). A buffer underrun results from an interruption in the data flow to the internal buffer. The buffer continues to deliver data until it is finally empty. When recording, data is fed continuously to the recorder's buffer in order to keep a steady flow of data. If the steady flow of data is interrupted, the media becomes unusable. Most modern recorders have a protective mechanism against buffer underruns.

CD-R

Compact Disc-Recordable is a technology for write-once media. The Orange Book standard defines the storage of audio data and other computer-readable data.

Image

An image refers to a single file on the hard drive that contains the image of a complete disc. A disc image can be used to create exact copies on media at a later point in time if problems occur during the write process or if no recorder is connected to your PC. The image requires as much free space on the hard drive as the contents of the original disc take up.

Nero Digital

Various MPEG-4 video and audio codecs are collated in Nero Digital and are fully compatible with the standard MPEG-4. Nero AG is continuing to develop these. In this way a substantially higher quality of the multi-media data is achieved. Further, additional features such as subtitles have been implemented.

On-the-fly

On-the-fly refers to a method for copying to a disc. The data is transferred directly from the original storage location to the disc to be burned. To do this, Nero uses a compilation, a small file that simply refers to the transferred data.

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10 Contact

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