

AudioGate

USER'S GUIDE

AudioGate 4

KORG

Contents

Introduction	3	Transport Controls	21
Switching Between Views	4	Contents of the Upper Viewer Display	22
Player View	4	Recording Device Settings	23
Edit/Recording View	4	Recording File Settings	24
The Songlist	5	Recording Procedure	27
Master Volume/Input Level	5		
Peak/Level Meter and Clip Indicator	5	Editing a Song	28
Using the Peak/Clip Hold Function	6	Editing the Current Song	28
Clearing the Peak Hold and Clip Indicators Manually	6	Editing the Text Data	28
AudioGate Information	6	Editing the Picture Data	28
Registering Files and Projects	7	Editing the Control Data	29
Song Registration	7	Batch Editing—Song Information	30
Registering an MR project	7	Batch Editing—Multiple Songs	32
Registering an Audio File	8	Dividing a Song	33
Registering an iTunes Song	8	Combining Songs	34
Registering a new Recording	8	Channel Linking	35
Selecting a Registered Song	9	Normalizing	36
Removing a Song	9	Using Marks	36
Sorting the Songlist	9	Marks that can be Imported	36
Using Playlists	10	Marks that can be Exported	36
Creating a new Empty Playlist	10	Editing Marks	37
Creating a new Playlist by Selecting a Song	11	Undo and Redo	37
Sorting the Playlist	11	Reverting an Edit (Undo)	37
Removing, Exporting, and Writing a Playlist to Disc	11	Re-executing the Edit (Redo)	37
Playing Songs	12	Converting Songs for Export	38
Playing Back a Song	12	Exporting an Audio File	38
Transport Controls	13	Optional Settings	42
Contents of the Upper Viewer Display	14	Creating an Audio CD or DSD Disc	46
Direct Locate	15	Optional Settings	50
Repeat Mode	15	Auto Update Function	51
Shuffle Mode	15	Manually Checking for Updates	51
Audio Device Settings	16	Automatically Checking for Updates	52
Input/output devices for KORG products	16	Other Settings	53
Automatic Sample Rate Switching	17	Changing the Folder where Temporary Files are Created	53
Playing Back 1-bit Audio Files Directly	18	Resetting the Warnings of All Dialog Boxes	53
Playback Volume Auto Adjust	19	Checking the real-time conversion processing	54
Playing an Audio CD/DSD Disc	20	Switching Background	54
Eject Disc	20	Supported Formats	56
Recording	21	Supported File Formats	56
		Supported Disc Formats	57
		List of Shortcuts	59

Introduction

Welcome to the Korg AudioGate High Resolution Music Player.

AudioGate is an advanced music player and audio recorder, as well as a flexible file conversion application. Best of all, AudioGate is fully compatible with 1-bit DSD audio. When Installed on your computer, AudioGate can play, manage, and convert the format of your digital audio files so that you can enjoy hearing them reproduced with the highest levels of clarity—including direct playback of 1-bit digital audio files. Combined with certified audio devices—such as the Korg DS-DAC Series—AudioGate allows the direct recording of 1-bit audio data.

In addition, AudioGate allows projects or files created using the Korg MR Series of DSD 1-bit recorders, DS-DAC-10R, or Nu I* to be converted into any audio file format you choose for export or to create an audio CD or DSD disc. Convenient file-editing features including cut, fade, and normalize add professional edge to your finished product.

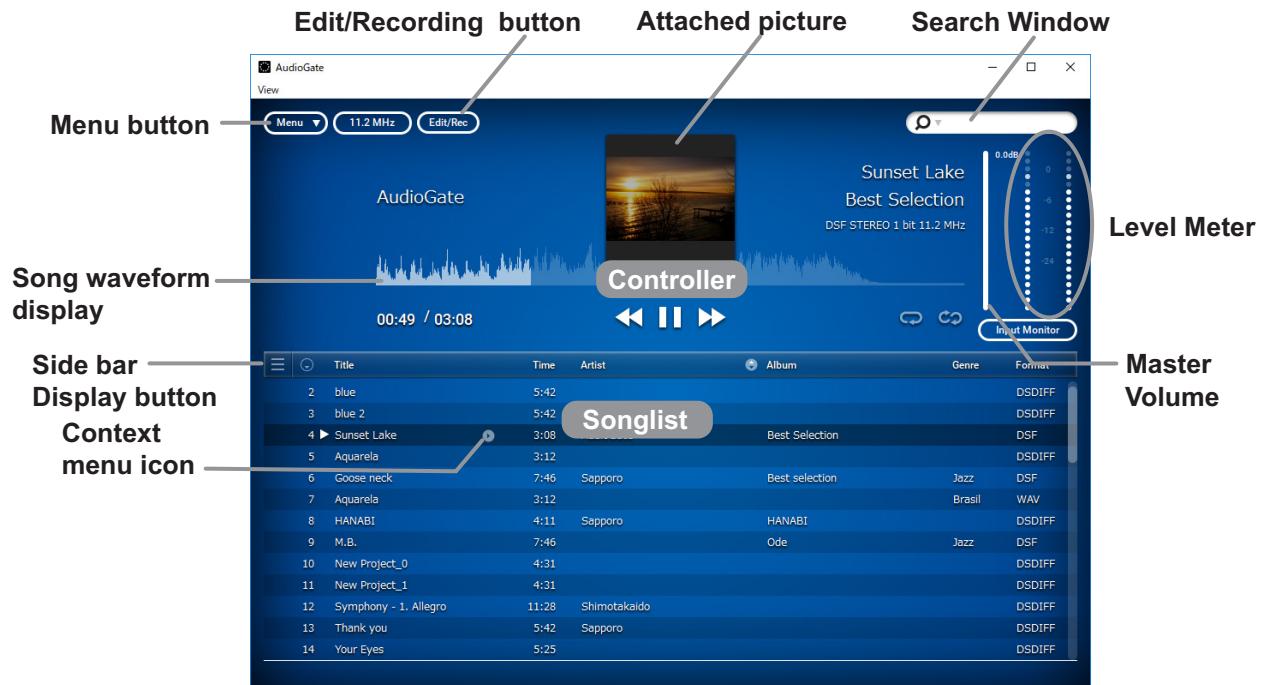
Please note that regardless of format, each audio element in an AudioGate Songlist is referred to as a Song.

*Nu I is sold only in Japan.

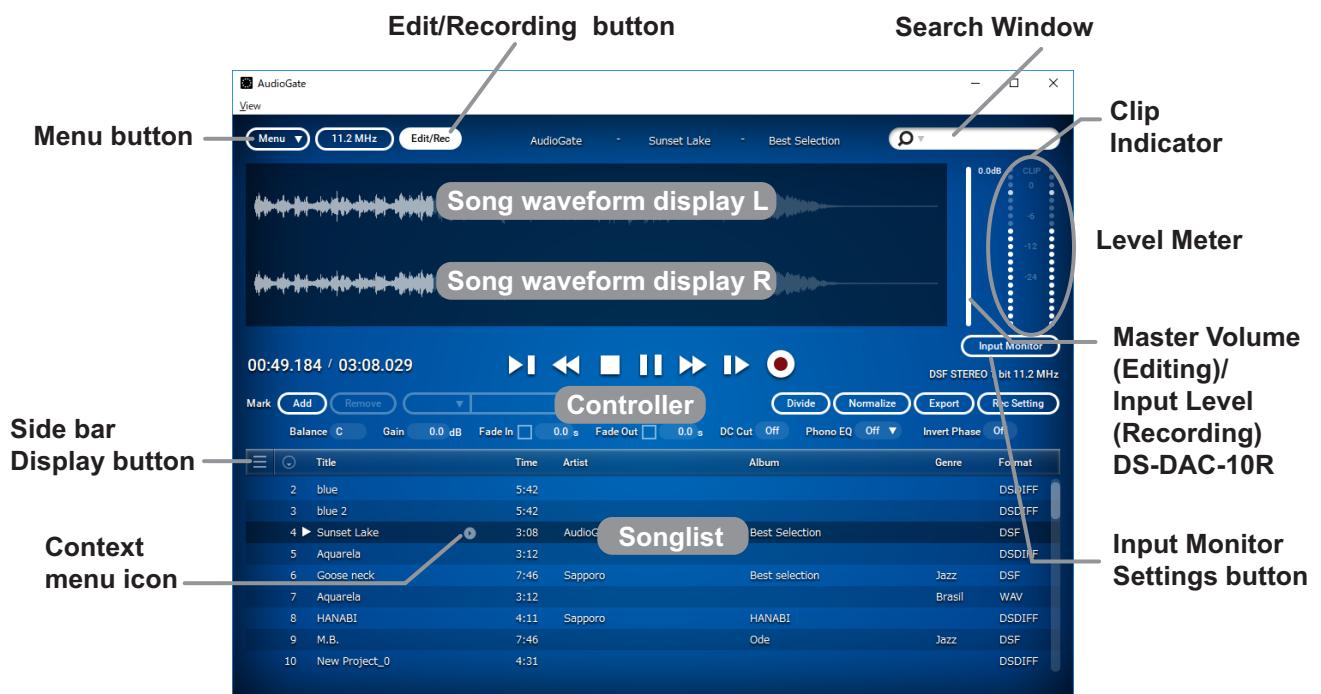
Switching Between Views

Nearly all of the AudioGate features and functions are accessed directly from the Views. The Player View provides access to the features related to playing an audio file or Playlist. Controls and parameters related to editing or recording an audio file are available in the Edit/Recording View. To switch between views, simply click on the Edit button at the top of the screen. The view can also be changed by clicking the Menu button and selecting [View]—[Switch View]. The size of the View can be freely changed like a common window frame.

Player View



Edit/Recording View



The Songlist

The Songlist section located in the lower half of the screen will display either information about the Songs (audio files) registered in the AudioGate Library (see page 7), or the Songs in the currently selected Playlist (see page 10). Click the Side bar Display button to open the Library/Playlist selection screen.

Master Volume/Input Level

The Master Volume/Input Level sliders can be adjusted by simply dragging them up and down.

Playback/Master Volume:

In addition to the playback Gain settings saved individually (see page 29) with each song, AudioGate offers an adjustable Master Volume control for playback.

Recording/Input Level:

When the Korg DS-DAC-10R is connected, during recording (even when paused) and input monitoring this control will determine the input level of the DS-DAC-10R.

Input Monitor Settings

Use the Input Monitor settings to set your input levels and to monitor the audio input as you record. Click the Input Monitor Settings button when stopped to monitor the input device sound. Click the button again to cancel setting the input monitor.

Peak/Level Meter and Clip Indicator

Player View:

During song playback and during export, the AudioGate Level Meter shows the peak values of the output data—following any sample rate conversion.

Edit/Recording View:

When configuring the input monitor settings and when recording (including pause), the Level Meter shows the level of the incoming audio signal. When using an Nu I or DS-DAC-10R and the phono equalizer for recording is selected in the recording settings, the level of the signal after going through the phono equalizer will be shown.

When the incoming audio signal level is too high, clipping may occur and could adversely affect your sound. In this case the Clip indicator will light, and you should re-adjust the input level, or adjust the output level of the audio source. The clip indicator is only displayed in the Edit/Recording View.

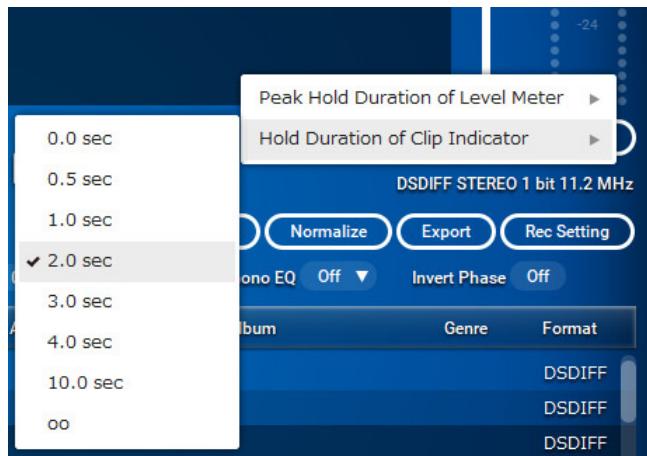
Using the Peak/Clip Hold Function

The AudioGate level meter is equipped with a peak hold function and a clip indicator hold function. This feature allows you to easily see the highest input level without constantly observing the meters. You can set hold duration of peak and clip—the length of time displayed before reset—separately.

Here's how:

1. Right-click (Mac: Control + click) the level meter.
2. Choose [Peak Hold Duration of Level meter] or [Hold Duration of Clip Indicator] and select the desired time from the options shown.

This function can also be accessed by clicking the Menu button and selecting [View] - [Peak Hold Duration of Level meter] or [Hold Duration of Clip Indicator].



Clearing the Peak Hold and Clip Indicators Manually

Clicking on the level meter when it is in use will immediately clear the Peak Hold and Clip indicators.

AudioGate Information

Click the Menu button and select [Help] to display the latest information about AudioGate.

Registering Files and Projects

In order for AudioGate to work with the audio files and MR projects (created using a KORG MR Series recorder) saved on your computer, they must first be registered with the AudioGate Library. Each registered item is referred to as a Song.

- note** Registering a Song does not create a copy of the file in AudioGate. Instead, file information needed to work as the Song in AudioGate is registered. Before you proceed, we recommend that projects recorded on your MR Series unit be copied to the hard drive of your computer.
- ⚠** When many Songs are registered at a time, it will take time for them to appear in the Songlist. In addition, the Song waveform display requires time to be analyzed during registration, so the Song waveform may also take a while to appear.

Song Registration

Registering an MR project

When registering data that was created on a Korg MR Series digital recorder, it is possible to register just the audio file. However, it is best practice to register the entire MR project. This way, AudioGate can also access any Marks that were added during recording, and divided audio files will be automatically joined so that they can be handled as a single Song.

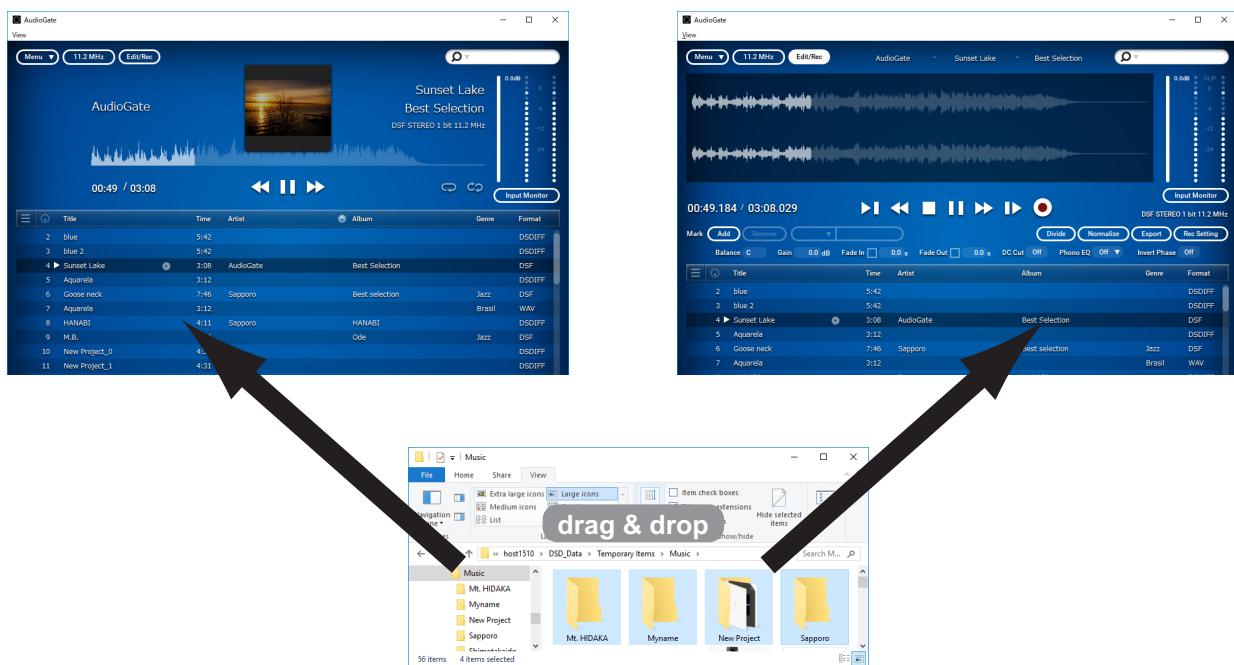
- **Drag the MR project (the entire MR project folder) that you want to register into the songlist.**

Alternatively, you can click the Menu button and select [File] - [Add Audio Files...] and then choose the MR Project by selecting the .prj file from within the folder.

When the Library Songlist is displayed, the MR project is registered to the Library as songs.

When a Playlist is displayed, the MR project is registered to the selected Playlist as well as to the Library.

- note** Simply registering an MR project in the AudioGate library does not create a backup of the file. We recommend that you make a copy beforehand of projects recorded on a Korg MR Series to the hard disk of your computer.



Registering an Audio File

Audio files can be registered as Songs for use with AudioGate. Any file in one of the many formats which AudioGate supports can be imported and registered as a Song (see page 56).

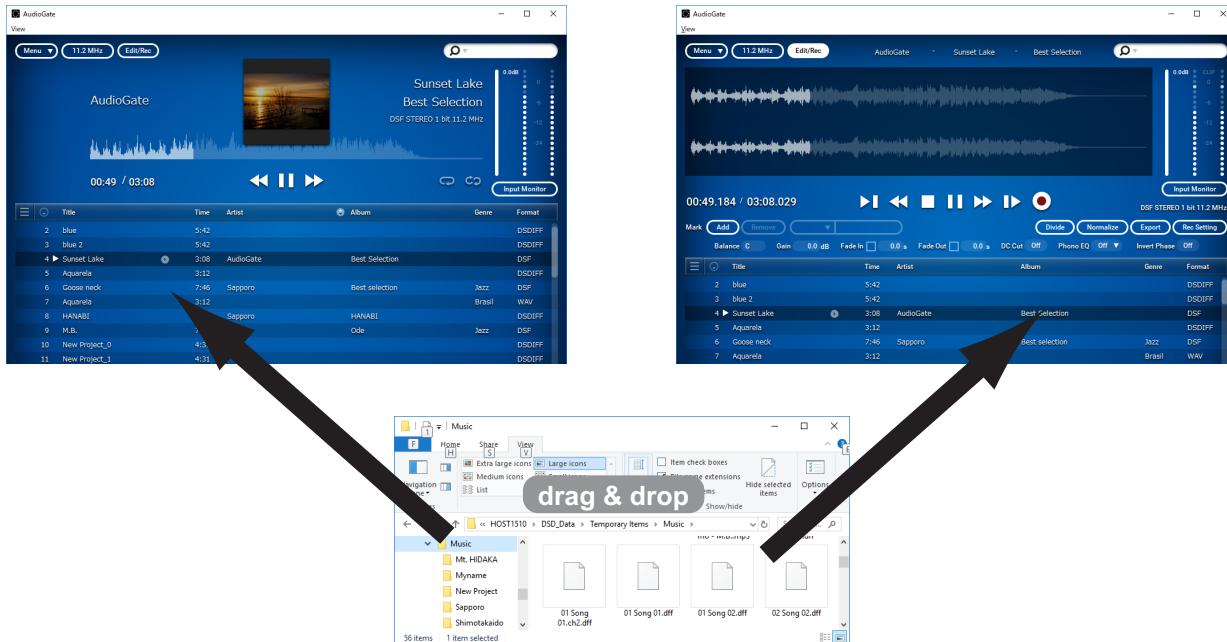
- **Drag the audio file that you want to register into the songlist.**

Alternatively, you can simply click the Menu button and select [File] - [Add Audio Files...].

When the Library Songlist is displayed, the audio file is registered to the Library as songs.

When a Playlist is displayed, the audio file is registered to the selected Playlist as well as to the Library.

note When the Library Songlist is displayed, you cannot register a Song that has already been registered. You are ignored when it drag-and-drop.



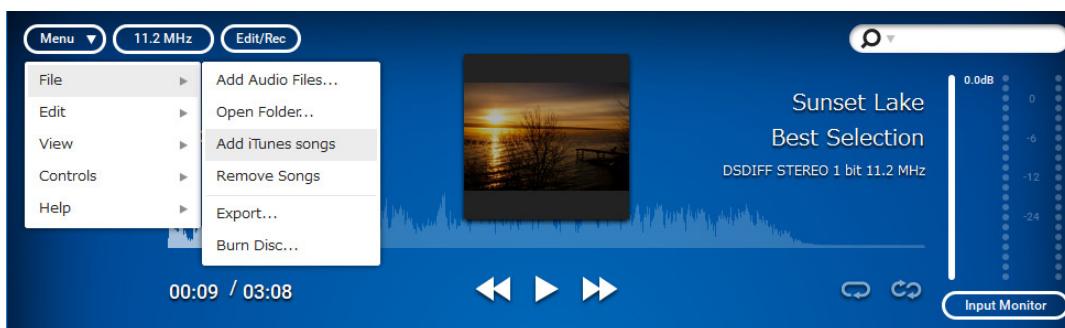
Registering an iTunes Song

Your iTunes songs can also be registered into the AudioGate Library.

1. Click the menu button to select [File] - [Add iTunes songs].

2. The selected iTunes song(s) is now registered into the Library.

note Your iTunes songs will only be registered into the AudioGate Library when they are selected using the procedure described above [Add iTunes songs]. A Song already registered in the library will not be registered in duplicate.



Registering a new Recording

When recording using AudioGate, as soon as recording has stopped, the new recording will be automatically registered into the AudioGate Library as well as into the current Playlist.

Selecting a Registered Song

In the Songlist area, simply click on the Song.

The selected Song will be displayed in bold.

- note** To select multiple songs, hold down the Ctrl key (Mac: Command key) and while clicking individually on each Song you wish to select.



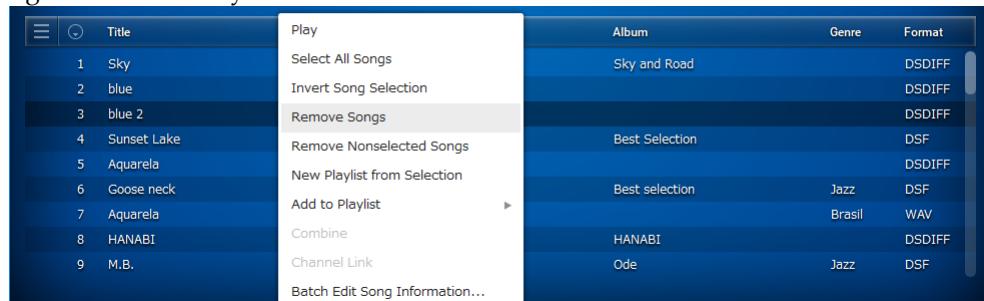
Removing a Song

Move the mouse pointer onto the targeted song, and click the Context Menu icon that appears on the right side of the Title to select the [Remove Songs] option.

Alternatively, you can select [File] - [Remove Songs] by clicking the Menu button.

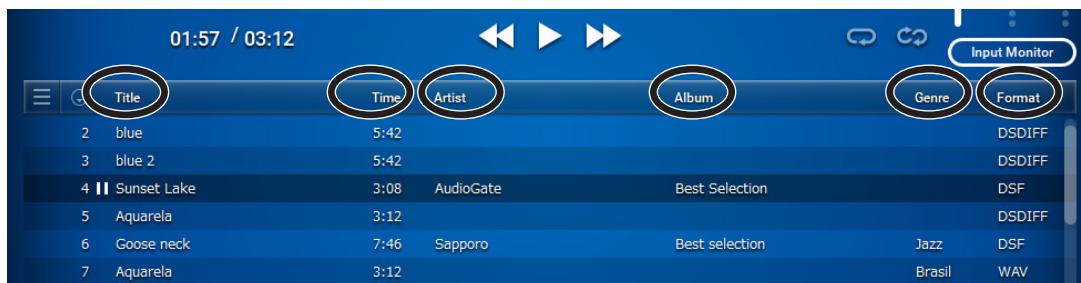
- note** You can also access the [Remove Songs] option by right-clicking on the selection (Windows) or control-clicking (Mac).

- ⚠** Removing songs deletes the songs from the playlist. In addition, removing the songs from the playlist does not delete the songs from the library.



Sorting the Songlist.

Songs in the Songlist can be quickly sorted by Title, Time, Artist, Album, Genre or Format. Simply click on the section headings at the top of the list. The Songs will be sorted in Alphabetical or Numerical ascending order. Clicking on the heading a second time will reverse the sort order.



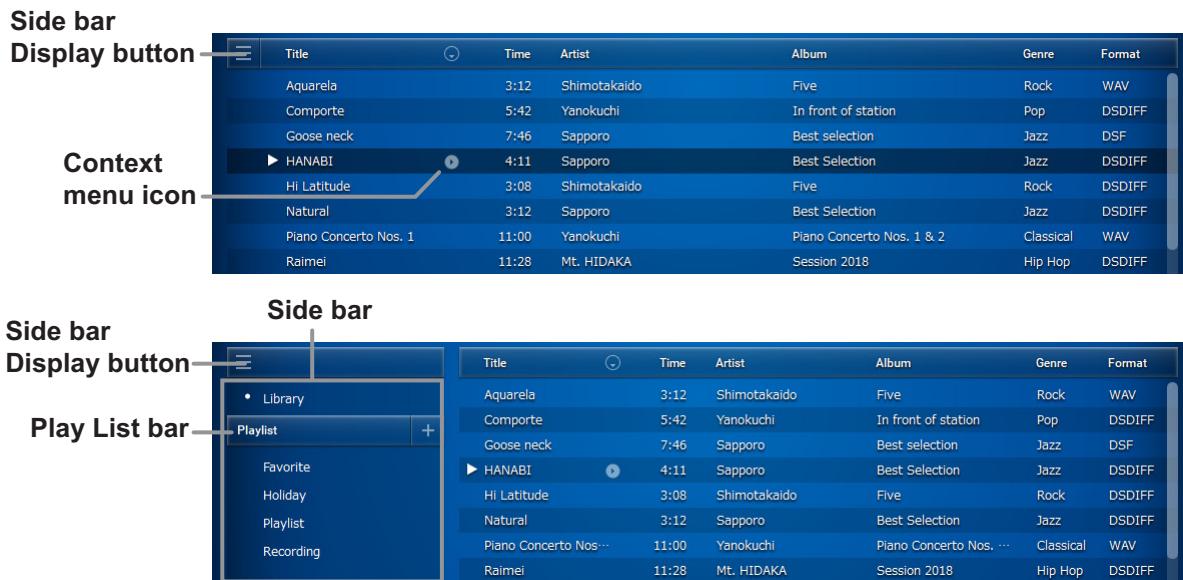
Using Playlists

By creating a Playlist, you can group together your favorite Songs registered to the AudioGate Library by theme, genre, artist, etc. Once you've created a Playlist, you can add, remove, sort and select individual songs, just as in the Library.

- note** When you register a Song into the Playlist that has not yet been registered into the Library, the Song will be automatically registered into the Library as well as the Playlist.
- ▲** When Song information is updated for a Song that's in a Playlist, the Song information will be updated in the Library, so any other playlists in which the song is registered are also updated.

Creating a new Empty Playlist

1. Click the Side bar Display button at the upper left corner of the Songlist.



2. The Playlist bar will appear. Click the + button in the right corner.

A new Playlist named "Playlist" will appear.

3. To change the Playlist name, click on the name section.

If you do not change the name, new Playlists will be named [Playlist n], with n being a number that automatically increases by 1 with each Playlist created.

4. Click Library above the Playlist bar to display the Songs registered in the Library.

5. Select Songs in the Library to register them into the Playlist displayed in the side bar.

Move the mouse pointer onto the song, and click the Context Menu icon displayed to the right of the Title to select the [Add to Playlist] function and register the Song to the Playlist.

To select multiple songs, hold down the Ctrl key (Mac: Command key) and click.

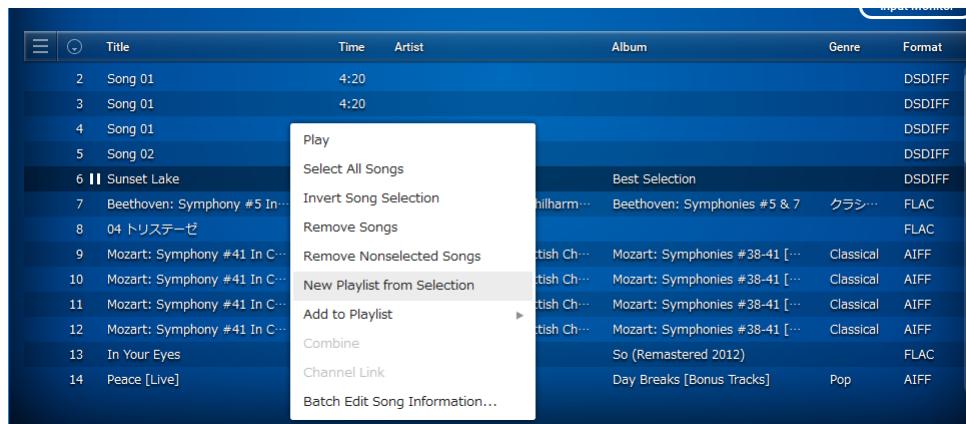
note You can also select the [Add to Playlist] function to register the Song by right-clicking (Windows) or control-clicking (Mac).

6. When you select a Playlist displayed under the Playlist bar, the Songs registered to that Playlist will appear in the Songlist.

Creating a new Playlist by Selecting a Song

Move the mouse pointer onto the Song in the Songlist, and click the Context Menu icon displayed on the right side of the Title to select the [New Playlist from Selection] function.

note You can also select and register the [New Playlist from Selection] by right-clicking (Windows) or control-clicking (Mac).



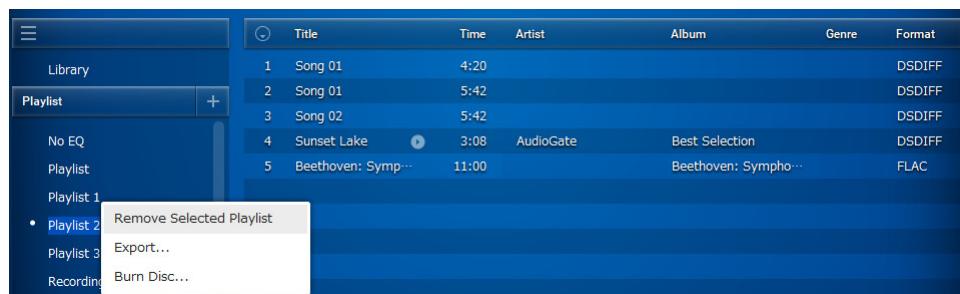
Sorting the Playlist

Songs in a Playlist can be sorted using the same methods used to sort the Songs in the Library Songlist (see page 9). In addition, selecting a song enables the dragging and sorting of Songs to achieve the desired order.

Removing, Exporting, and Writing a Playlist to Disc

Right-click (control-click for the Mac) on the name of the Playlist you wish to remove, and select Remove Selected Playlist. Export and Burn Disc can be chosen as well. For more information on the other choices see page 38 (Export) and/or page 46 (Burn Disc).

note Removing the Playlist deletes the registered information of the Songs in the selected Playlist only. These same Songs will remain registered in the Library Songlist and in any other Playlists in which they appear.



Playing Songs

Using AudioGate, you can playback any Song that has been registered in the Library Songlist. This provides a useful way to playback Songs of any format supported in AudioGate (includes 1-bit audio format) in the same sampling frequency, to check the file contents or to set an editing point (see page 36).

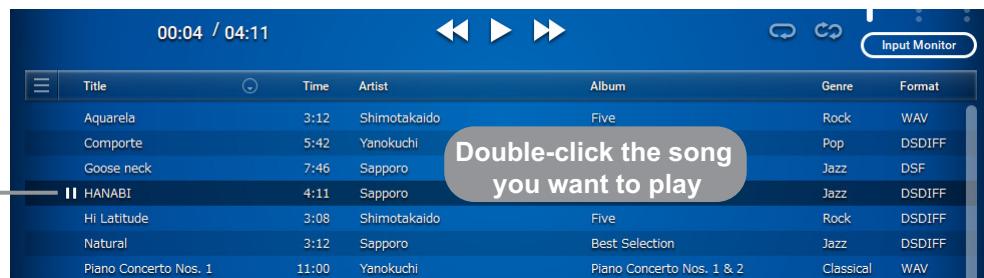
- ▲ The playback provided by AudioGate is a convenient feature that utilizes a high-speed filter and direct 1-bit DSD output. In order to experience the exceptional fidelity provided by 1-bit audio, please use the Korg DS-DAC Series, a certified USB audio device, or a device that supports 1-bit audio, such as the Korg MR Series.
- In AudioGate, the currently selected Song title is indicated by a Playback / Pause icon to the left side of the title. The artist name, title, and album name related to the Current Song will appear in the upper section of the Viewer Display. The current position in the playback of the Song can be seen in the Time Information. (Refer to “Contents of the Upper Viewer Display” on page 14.)

Playing Back a Song

Double-click on any Song in the Songlist to make it the Current Song. Playback will begin automatically.

- If you experience problems with playback—for example if there is no sound or if there are frequent clicks or pops in the playback—please refer to “Audio Device Settings” on page 16.

Play/Pause
Icon

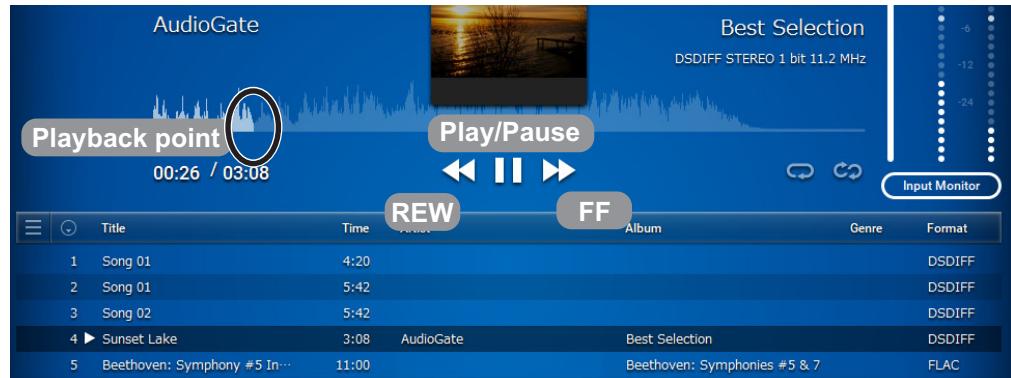


Transport Controls

These Transport Buttons can be used to control the AudioGate playback functions.

Alternatively, you can select [Controls] by clicking on the Menu button.

Player View



Edit/Recording View



Controller Name	Function
Play/Pause button	Switches the Current Song between the pause and playback modes.
Stop button	Stops the playback of the Current Song, and returns the current position back to the beginning of the Song.
FF button	Tapping this button advances the current position to the next Mark location. If there is no next Mark, the current position will Advance to the next Song in the Songlist. By holding this button down, you can fast-forward the playback point.
REW button	Tapping this button return the current position to the previous Mark location. If there is no previous Mark, the current position will return to the start of the Song. By holding this button down, you can rewind the playback point.
To button	If you click this while paused, a two-second region ending at the current position will play.
From button	If you click this while paused, a two-second region starting from the current position will play.
Playback point	The current position is indicated by where the waveform display changes color. To change the current playback location you can either click directly on the waveform, or slide the indicator left or right.

note The record button cannot be used during playback.

Contents of the Upper Viewer Display

The top half of the display (upper Viewer Display) provides important information related to the Current Song.

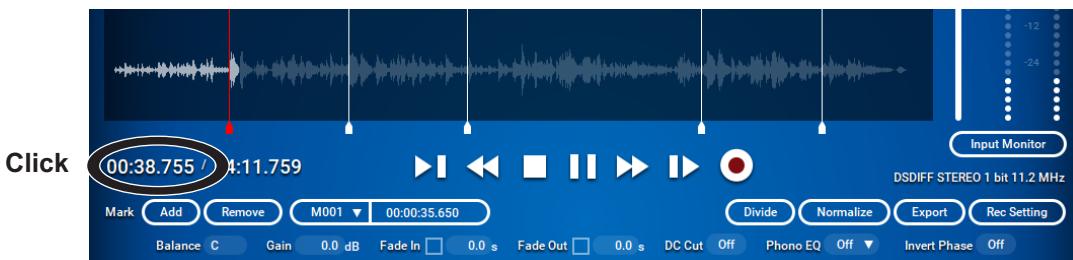


Item	Information
Sample Rate of the Audio Device	The sample rate of the audio device is shown. The Current Song is converted to this sample rate in real time as it plays.
Artist	Indicates the name of the artist related to the Current Song.
Title	Indicates the name of the Current Song.
Album	Indicates the name of the album related to the Current Song.
Search Window	You can search the Library Songlist by All, Title, Artist, or Album. Click the magnifier Mark to the left side of the search window to search. When selecting All, the search is executed using all of the items (Title, Artist and Album). If the Songlist data contains the searched items, the Songs meeting this search criteria will be displayed.
Format	Indicates the file format, number of channels, sample rate, and bit depth of the Current Song. When playing files with irreversible compression, the "bit depth" icon will show the "bit rate" (e.g., 128 kbps).
Time Information	The current playback position and the overall time of the Current Song are displayed.

Direct Locate

This feature allows you to accurately specify the current position directly from the keyboard.

1. While a Song is playing or stopped, click the Time Information indicator.
2. The counter will become an editable field. From the keyboard, enter the new counter position (e.g., 2:30). You may omit the colon (:) and simply enter "230" (interpreted as "2:30") or "1204" (interpreted as "12:04").



3. Press the Enter key on the keyboard.

Note that the current position has changed.

Repeat Mode

The Repeat feature has three settings: Repeat the entire Playlist, Repeat the Current Song, and Off (no repeat). Each time you click on the Repeat icon, it will advance to the next setting in the order listed above.

note Repeat Mode is available during playback only (Play View).



Shuffle Mode

The Shuffle feature plays Songs in a shuffled order. Click on the Shuffle icon to turn the Shuffle mode On and Off.

note Shuffle Mode is available during playback only (Play View).

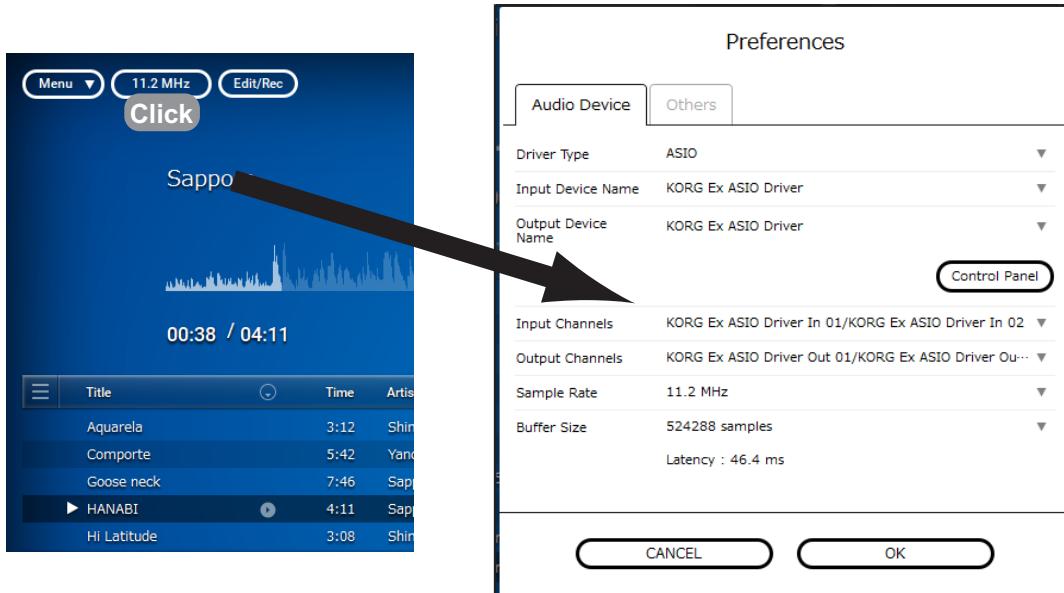


Audio Device Settings

To access your Audio Device settings, click on the Sample Rate indicator in the upper Viewer Display.

If the Song does not play correctly, please check these settings to make sure that each item is configured properly. In addition, you can also click the Menu button and select [Edit] - [Preferences...] to display the settings of the Audio Device. This is also where the recording input device and sample rate parameters are set.

- note** A fast CPU is required for stable playback of 1-bit audio files directly, or real-time conversion from PCM to 1-bit audio files. If any skip or noise occurs frequently during playback, adjusting the buffer size may help improve the performance. To avoid errors due to CPU overload during recording, we recommend that you set this to the maximum value.



note This is where input devices and the sample rate to be used for recording are set.

Input/output devices for KORG products

Driver type	Output device name/input device name *1	Name of supported KORG product
ASIO (Win)	KORG Ex ASIO Driver	Nu I *2
	KORG 2ch 1bit Audio Device	DS-DAC-10R
	KORG USB Audio Device Driver	DS-DAC-100, DS-DAC-100m, DS-DAC-10 *2
Core Audio (Mac)	KORG Ex Audio Device	Nu I *2
	KORG 2ch 1bit Audio Device	DS-DAC-10R
	KORG USB Audio Device Driver	DS-DAC-100, DS-DAC-100m, DS-DAC-10 *2

*1: Input devices for DS-DAC-100, DS-DAC-100m, and DS-DAC-10 cannot be configured.

*2: DS-DAC-10R and Nu I are sold only in Japan.

note If the device does not support the sample rate for the song, the song will be played back while being converted in real time using the optimum algorithm, at the highest PCM sample rate for that device.

Automatic Sample Rate Switching

AudioGate can automatically switch the sample rate of the audio device to match the sample rate of the current song.

1. Click the display section of the sample rate in the audio device.

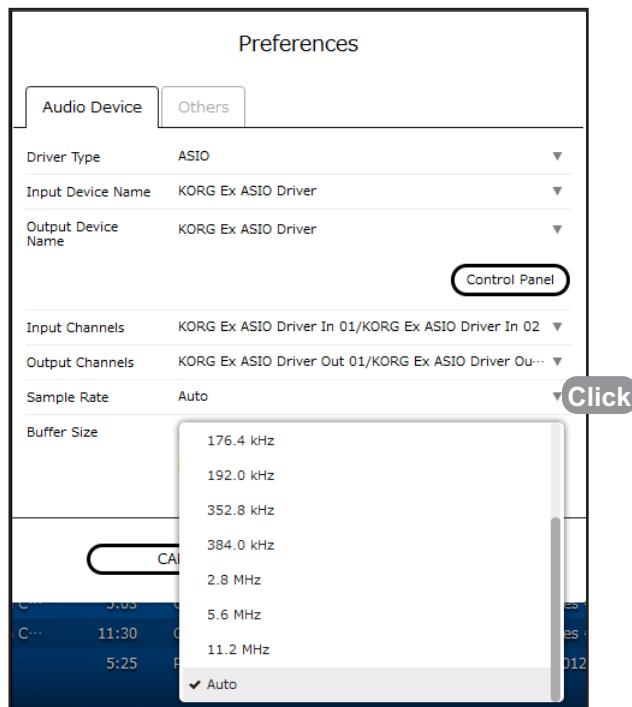
You can also access these parameters by clicking the Menu button and selecting [Edit] - [Preferences...].

2. Click the [Audio Device] tab.

3. In the [Sample Rate] section, select [Auto].

If the sample rate of the Current Song is not supported on the audio device, the sample rate will be set to the highest value of the device.

note If the device does not support the sample rate for the song, the song will be played back while being converted in real time using the optimum algorithm, at the highest PCM sample rate for that device.



Playing Back 1-bit Audio Files Directly

When using a certified device AudioGate can play 1-bit audio files (DSDIFF, DSF or WSD) directly, without any PCM conversion.

note You can only use this function with KORG certified audio devices such as the DS-DAC series. Please see the device list on our website:

<https://www.korg.com/products/audio/audiogate4/>

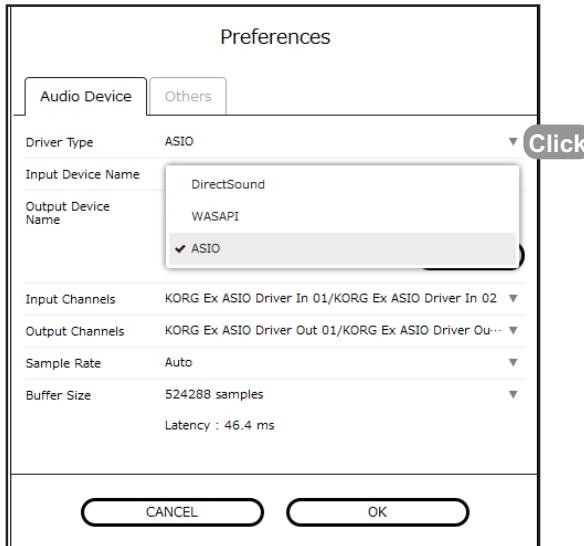
Please follow the steps below with your audio device connected to your computer.

1. Click the display section of the sample rate in the audio device.

You can also access these parameters by clicking the Menu button and selecting [Edit] - [Preferences...].

2. Click the [Audio Device] tab.

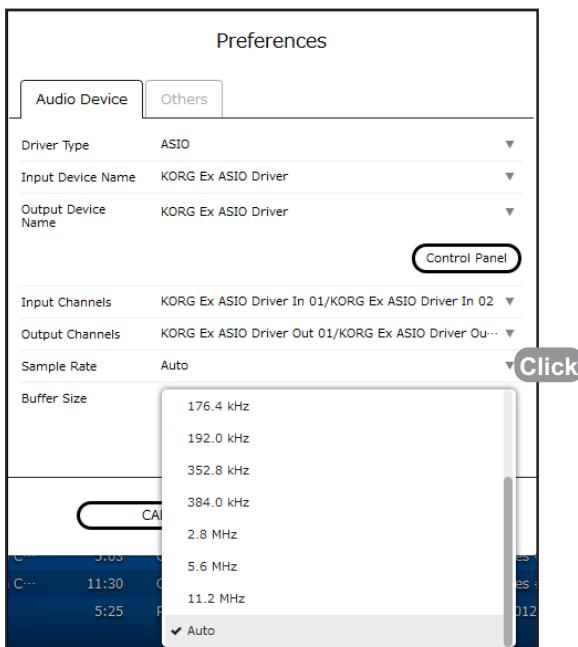
3. In the [Driver Type] section, select [ASIO] (Mac [CoreAudio]).



4. Select the correct audio device in the [Output Device Name] section.

5. Select "Auto" on [Sample Rate].

note When playing back an unsupported 11.2 MHz file on the Korg DS-DAC Series, the file will be played back while being converted in real time using the optimum algorithm at 192 kHz, the highest PCM sampling frequency for that device.



6. Select a song from the song list in DSDIFF, DSF or WSD format to play back.

Playback Volume Auto Adjust

This feature enables you to enjoy listening to all Songs at nearly the same volume level, as AudioGate automatically adjusts the playback volume of every Song. The Playback Volume Auto Adjust works during playback only, and does not adjust the gain of the audio file itself.

1. Click the display section of the sample rate in the audio device.

You can also access these parameters by clicking the Menu button and selecting [Edit] - [Preferences...].

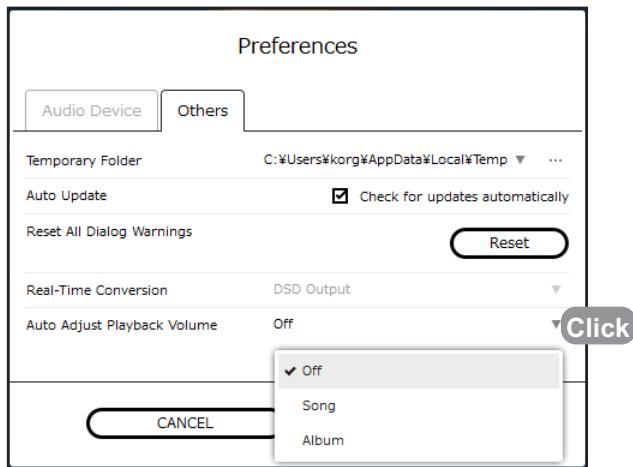
2. Click the [Other] tab.

3. Select the setting of the [Auto Adjust Playback Volume] feature.

Off: The Auto Adjustment Playback Volume function will not be applied.

Song: Playback volume of each Song will be adjusted.

Album: Playback volume of each Song will be adjusted while preserving the volume balance between Songs in the album.



Playing an Audio CD/DSD Disc

In addition to playing the Songs registered in the Library Songlist, AudioGate can play back the individual tracks of an audio CD/DSD disc.

For information on how to playback a song, see "Song Playback."

⚠ You cannot load a DSD disc using a drive that does not support DVD.

1. Insert the disc into your computer's CD/DVD drive.

If another window (a different application) appears, close that window.

⚠ If your computer does not detect a disc, the "No audio discs found" message will be displayed. Wait for a brief time, and if the disc is still not detected, check whether the drive is correctly connected to your computer and make sure that there is no problem with the disc that has been inserted.

2. If no side bar is displayed, click the Side bar Display button.

3. When Disc bar is added to the side bar, click the displayed "Audio CD" (or "DSD disc").

A list of the Songs on the disc will appear in the Songlist.

At this time, no Songs are registered to the Library Songlist.

①	Title	Time	Artist	Album	Genre	Format
1	Track 01	1:24				CD
2	Track 02	2:14				CD
3	Track 03	1:44				CD
4	Track 04	2:19				CD
5	Track 05	2:29				CD
6	Track 06	1:01				CD
7	Track 07	1:23				CD
8	Track 08	1:49				CD
9	Track 09	2:47				CD

note If the audio CD you're inserting into the drive contains embedded CD-TEXT data, or if the DSD disc contains embedded ID3v2.3 data, the track titles will be used as the Song names.

⚠ If you want to save each track on the Audio CD/DSD disc as an audio file, export it to the desired folder on your computer. If you're registering this into the Playlist or editing it, you must register it into the Library Songlist. (Refer to "Song Registration" on page 7.)

Eject Disc

Select the Disc to eject by right-clicking (Windows) or control-clicking (Mac). Alternatively, you can select [Controls] - [Eject Disc] by clicking the menu button.

Recording

With the AudioGate, you can connect a Nu I or DS-DAC-10R and record analog signals in 1-bit or PCM format. The following explains recording with the Nu I or DS-DAC-10R.

note When recording using a device other than the Nu I or DS-DAC-10R, there will be limitations in recording format depending on the device used.

If the Song does not record correctly, click the sample rate display area, and check the settings again to make sure that each item is configured properly. You can also access the Audio Device settings by clicking the Menu button and choosing [Edit]-[Preferences...].

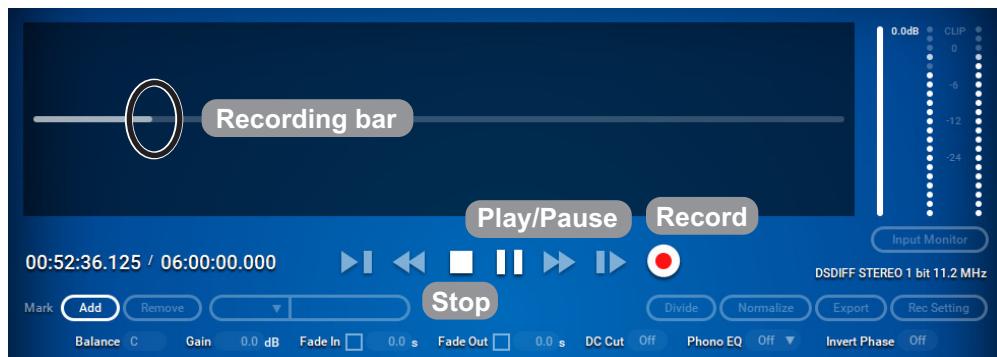
Be sure to keep an eye on the remaining media capacity when recording many songs.

For the formats that can be used for recording, see “Supported Formats” on page 56.

Transport Controls

These Transport Buttons can be used to control the AudioGate Record functions.

Alternatively, you can select [Controls] by clicking on the Menu button.



Controller Name	Function
Play/Pause button	During recording, use this button to pause the recording. Click the button again to resume recording. Recording will continue to the same file until the stop button is clicked.
Record button	Click this button to begin recording, and the button will light. During recording, Click the Play/Pause button to pause the recording—the Record button will remain lit.
Stop button	Click the Stop button to cease recording and to unarm the Record function.
Recording bar	During recording, the white portion of the bar will extend to the right. When it reaches the right side, it will begin again from the left side.

note The To, REW, FF, and From buttons cannot be used during recording.

Contents of the Upper Viewer Display

The top half of the display (upper Viewer Display) provides important information related to the song currently being recorded.



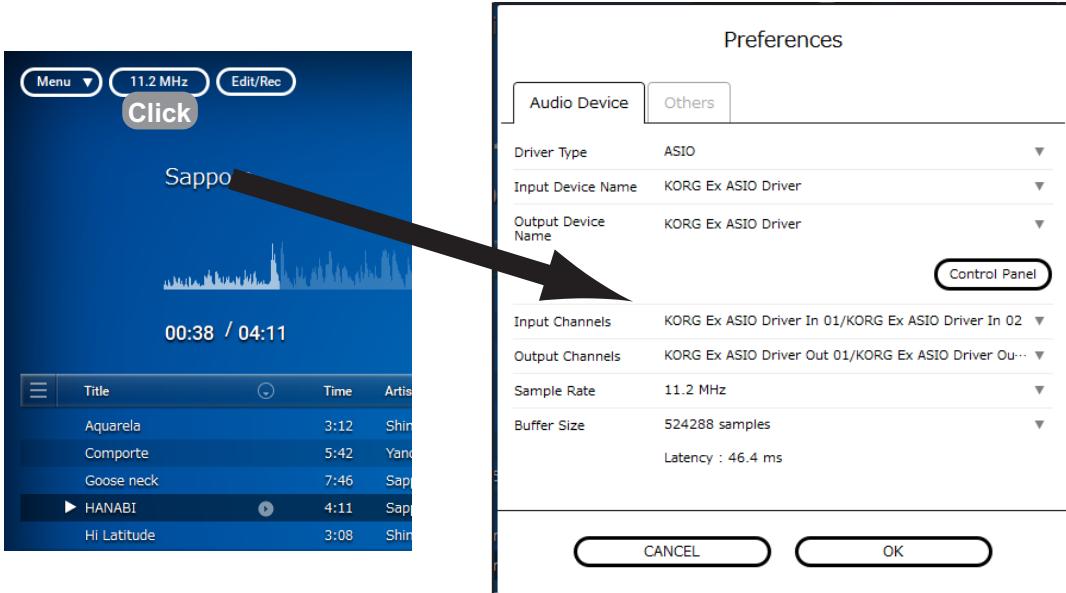
Item	Information
Sample Rate	The recording sample rate is shown. The incoming analog single will be converted to this frequency/format and then recorded.
Artist	When recording is paused, you can set the Artist's name.
Title	When recording is paused, you can set the Title of the Song.
Album	When recording is paused, you can set the Album name.
Format	When recording, this indicates the file format, number of channels, sample rate, and bit depth of the recording. When the Recording Phono Equalizer is selected, the phono equalizer type will also be shown.
Time Information	The elapsed recording time and the set recording time will be displayed. The recording time can be directly edited, so that recording will stop when the specified time elapses. The Total Recording Time can also be set in the Rec Setting. (Refer to "Recording File Settings" on page 24.)

Recording Device Settings

To access the Recording Device settings, click on the Sample Rate indicator in the upper Viewer Display. In addition, you can also click the menu button and select [Edit] - [Preferences...] to access the Recording Device settings.

Please configure these AudioGate settings while the devices to be used for recording are connected to your computer.

1. Click the [Audio Device] tab.



2. In the [Driver Type] section, select [ASIO] (Mac [CoreAudio]).
3. Select the recording input device under [Input Device Name].
4. Select the audio device to use for playback in the [Output Device Name] section.
Separate input/output devices cannot be set when using ASIO.
5. As the [Sample Rate], select the sampling rate for recording.
If this is [Auto], the sampling rate of the last-played song is used.

note When making 1-bit recordings, set the input and output devices to be the same device.

Recording File Settings

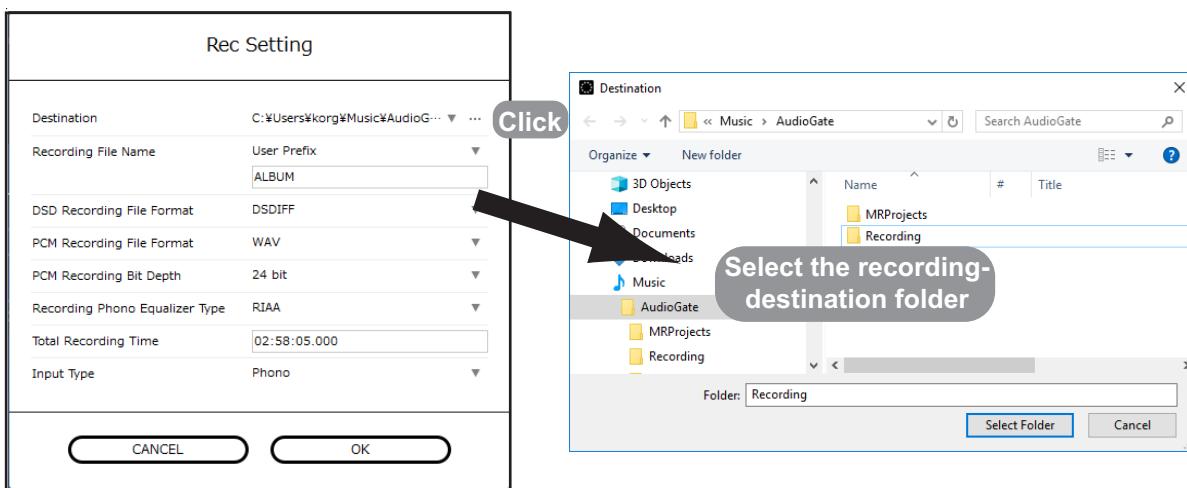
This shows you how to configure the settings for recording a file from analog signals inputted from the Nu I or DS-DAC-10R.

1. Click the [Rec Setting] button on the Edit/Recording View.

The recording file setting screen will be displayed.



2. In the "Destination" area, click the [...] button and choose the output destination folder for the recording file.

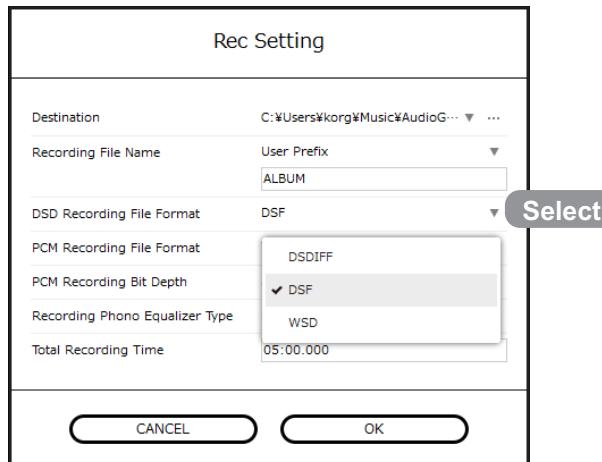


3. Decide on a prefix (the characters to use at the beginning of the filename) to be used for the recording file-name.

If you select "Default Prefix," the word "Recording" will be used at the beginning of the filename. If you select "User Prefix," you will be able to set whatever characters you like in place of the word "Recording".

4. Select the audio file format to use when recording 2.8 MHz, 5.6 MHz or 11.2 MHz (1-bit).

The selected recording file will be created as a stereo file.



5. Select the file format and bit depth to use when recording from 44.1 kHz to 384 kHz.

The selected recording file will be created as a stereo file.

The image shows two consecutive screenshots of the 'Rec Setting' dialog box. Both screenshots have a header 'Rec Setting' and a 'Select' button in the bottom right corner.

Screenshot 1: This screenshot shows the 'PCM Recording Bit Depth' dropdown open. The options are 'WAV', 'BWF' (which is checked), and 'AIFF'. A 'Select' button is located to the right of the dropdown.

Screenshot 2: This screenshot shows the 'PCM Recording Bit Depth' dropdown open again, but now the options are '1 bit', '16 bit', '24 bit' (which is checked), and '32 bit (float)'. A 'Select' button is located to the right of the dropdown.

6. Set the Input Type.

This function is only for the DS-DAC-10R.

Line

Select this input if you wish to record the analog signal from the LINE OUT of an audio device.

Phono

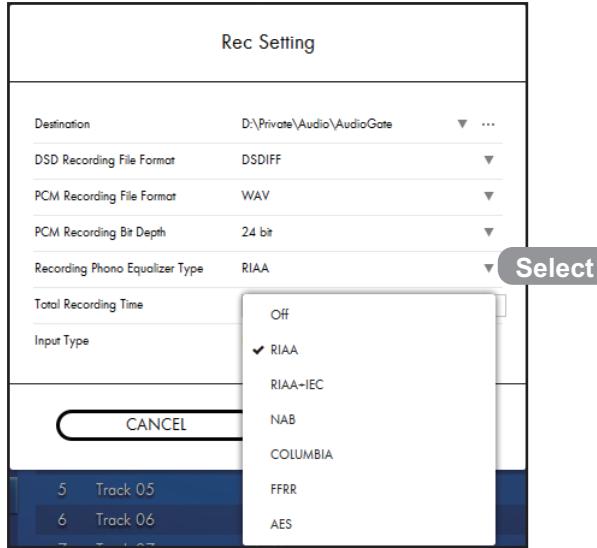
Select this input if you will connecting an analog signal from the PHONO output (MM cartridge-compatible) of an analog record player to the DS-DAC-10R.

This screenshot shows the 'Rec Setting' dialog box with various settings. In the 'Input Type' section, the dropdown shows 'Phono' (which is checked) and 'Line'. A 'Select' button is located to the right of the dropdown.

7. If the input is set to "Phono", you can choose a Recording Phono Equalizer Type.

Select the curve to use when recording with a phono equalizer. RIAA is normally recommended. When selecting a phono equalizer during playback, set this to "Off".

note When recording with a phono equalizer, the equalizer curve cannot be changed afterwards. Turn this setting to "Off" if you are recording a record but aren't sure of the equalizer curve.

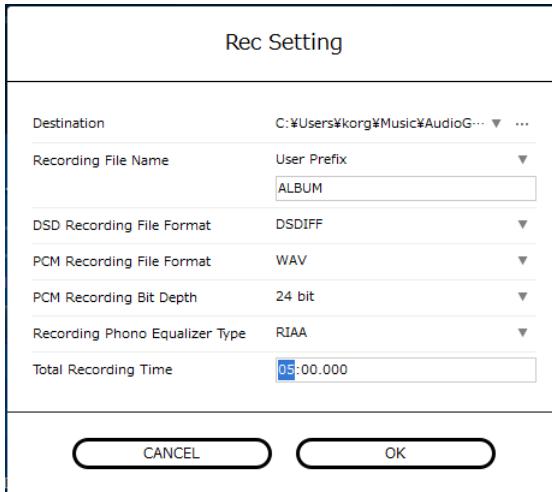


*1. The record lathes used in the process of producing vinyl records cut a wider groove as the frequency of the sound becomes lower; this makes it difficult for the needle to accurately trace the groove during playback, and also decreases the recording time. For this reason, the record being cut is equalized to attenuate the low-frequency range and boost the high-frequency range, and the opposite curve is applied during playback. This compensation is applied by the "phono equalizer."

*2. RIAA is the standard recording/playback equalization curve for vinyl records defined by the Recording Industry Association of America. It became a standard in 1954, but prior to that date there was no standardization between the various record labels. Since the curve is not indicated on the records themselves, it's not possible to know which curve was used to record a given record; however it is said that nearly all records can be covered by the RIAA curve and five other curves. Try selecting different curves in AudioGate and enjoy the resulting changes in tonality.

8. Set the Total Recording Time.

The maximum time that can be set is 6 hours.



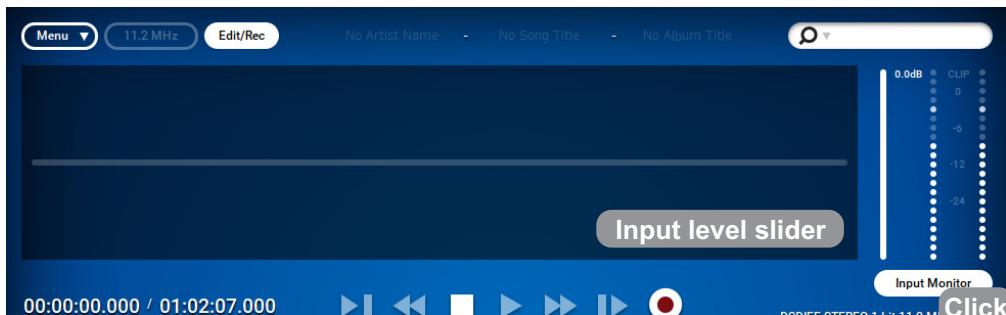
9. Click the [OK] button.

That's it! You're done with Recording File settings.

Recording Procedure

1. Click the Input Monitor Settings button on AudioGate.

The colors on the Input Monitor Settings button will invert.



2. Input the analog signal, and adjust the input level. Set the Nu I input level in the Nu I Control Panel. For the DS-DAC-10R, set the value with the AudioGate input level slider.

It's crucial to adjust the input level in order to record a clean sound that contains as little noise and distortion as possible. Before recording, adjust the recording source level so that it is as high as it can be, just before the clip indicator lights up.

⚠ When the line output of a device is connected to the DS-DAC-10R and "Phono" is selected, the sound will distort, even if the clip indicator does not light up. Be sure to monitor the sound and make the proper settings.

3. After adjusting the levels, click the AudioGate Record button to begin recording.

The Input Monitor Settings button will turn off, and the Record button will change to remain lit.

note The artist and album columns in the upper Viewer Display will be blank, and the Song name in the title will automatically be generated based on the recording date and time (for example, "Recording_20151121092032").

The waveform will not display when recording. The elapsed time is indicated by the bar that extends to the right.



4. Click the Add button at any time during recording to add a Mark at that location in the Song.

These "Marks" can be used during playback to rapidly find and locate a specific location in the Song.

5. To finish recording, click the Stop button.

The Record button light will turn off.

When the recording stops on the recorded song, it becomes the Current Song, and is automatically registered in the Library Songlist and in the current Playlist (Recording). Recorded Songs that have already been registered can be played and edited, as with other songs.

6. Check the results of your recording.

Click the Play button to listen to the recording, and to make sure that everything recorded successfully.

note After recording, it will take a little time to display the waveform (depending on the song length), but the Song can be played back or edited immediately. (Refer to "Editing a Song" on page 28.)

Editing a Song

AudioGate allows individual Songs in the Songlist to be divided into sections, or combined into one. This allows you to export selected regions from an audio file, or combine multiple consecutively-recorded files into a single file before you export it. You can also edit the gain, fade, and DC cut settings of each song, and edit text data such as the Title, Album, and Artist Name.

In addition—although you can edit some part of it in Player View—you can make much more detailed changes to the Song in Edit View.

note Edits applied to a Song will be commonly reflected in both the Library and the Playlist. However, changes made to regarding dividing, combining, and the channel link function executed in the Library Songlist will not be reflected in the Playlist.

Editing the Current Song

Editing the Text Data

The Artist, Title, and Album fields that appear above the waveform display in the Edit View Upper Viewer Display can be edited individually, or in groups using the Batch Edit feature.

- **Artist, Title, Album**

Click on the text field to make the information editable. Type in the new information using the computer keyboard. When finished, press the Enter key to finalize your changes.

- **All text data**

You can use the Batch Edit feature to modify the text information for a group of Songs at once. (Refer to “Batch Editing—Song Information” on page 30 and refer to “Batch Editing—Multiple Songs” on page 32.)

note The title is used as the name of the output file when exporting.

 If the Song has no information about the title, the file name will be displayed in the Title field.

 It is possible to enter Japanese (multi-bite text) as the title. However, you should use English alphanumeric characters if you intend to export the Song as an MR project.

Editing the Picture Data

You can attach a picture to your Song. The attached picture is displayed in Player View. If you want to change the attached image, click the displayed image and then select the desired image file.

 Simply attaching an image file does not embed the image in the audio file, instead the link is registered in the AudioGate. This means that if you move the image file, it will no longer be displayed in AudioGate. In order to embed the picture, you must export the Song or create a disc.

If you want to delete the attached image, move the mouse pointer onto the image and click the X button.

note Deleting the attached picture in AudioGate does not delete the original image file.

AudioGate can load images in the following formats:

- Image files in JPEG or PNG format
- Image files embedded in an AIFF, DSF, MP3, WMA, AAC, Apple lossless, or FLAC format audio files

AudioGate can embed the picture attached to a Song when exporting the following formats:

- AIFF, DSF, MP3, WMA, or FLAC format audio files
- DSD discs

Editing the Control Data

Various control information for the Current Song is displayed in Edit/Recording View.

You can edit these settings by double-clicking on them and entering a value, or by dragging the mouse up or down in the selected field. .

▲ These settings are not reflected in the edited song waveform display.

▲ These settings are reflected when you play back or export the Song.



Control Data

Item	Function
Balance	This adjusts the left/right volume balance of the song within a range of L100...C...R100. However, the balance of a monaural song is fixed at C (center), and cannot be changed.
Gain	Specify the volume level of the song in a range of -60.0 dB...+60.0 dB. Adjust this so that the clip indicator does not light up during playback or during export.
Fade In	This specifies the shape of the envelope used for the fade-in, and the time duration (0.0 second–20.0 seconds) for the fade-in to be completed.
Fade Out	This specifies the shape of the envelope that's used for the fade-out, and the time duration (0.0 seconds–20.0 seconds) for the fade-out to be completed.
DC Cut	Normally you will leave this "Off" (disabled). If the audio signal of the song contains a DC offset, you can turn this "On" to remove the offset. While often inaudible, a DC offset can reduce the available headroom before clipping, and can affect the sound quality in other ways.
Phono EQ (Phono equalizer settings)	Choose the phono equalizer type to use when playing back current song.
Invert Phase	Normally, this is set to "Off" (disabled). If the phase of the audio signal of the song is inverted, set this to "On" to make the phase match.

note During playback, if you have set the phono equalizer and want to play back the song you are listening to on a different application or device, you will need to export the song. (Refer to "Exporting an Audio File" on page 38.)

Batch Editing—Song Information

The Song editable metadata information includes the text data, the image data (attached picture), and the control data (see page 29). This information can be easily edited in the “Batch Edit Song Information...” view.

note When a file is exported, this information is embedded in the header of the exported file.

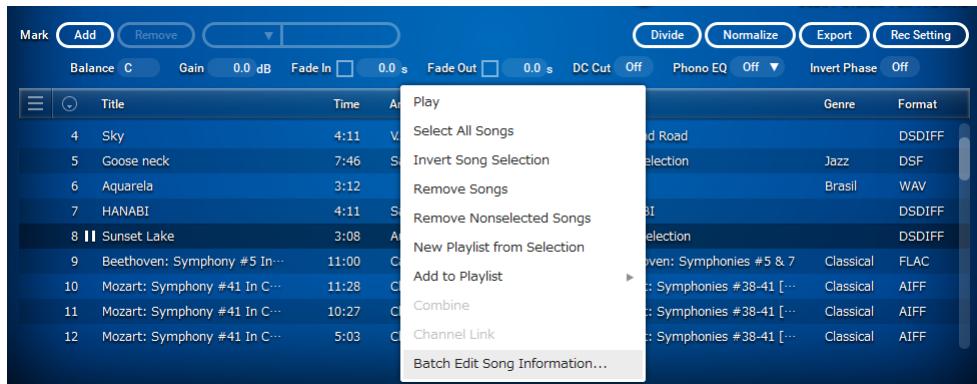
⚠ Embedding to AAC and the Apple lossless file is not supported.

⚠ It is possible to enter Japanese (multi-byte text) as text information, but you should use English alphanumeric characters if you intend to export in a format other than AIFF, DSF, MP3, WMA, FLAC file or DSD Disc. Due to limitations in the file format, characters other than English alpha-numeric will be ignored when exporting.

You can change the text information and attached image for the selected song together here.

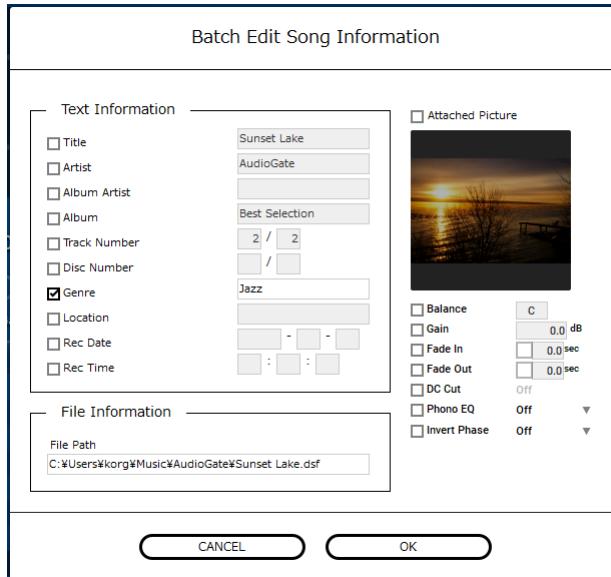
1. Move the mouse pointer onto the targeted Song in the Songlist, and click the Context Menu icon displayed to the right of the Title to select the [Batch Edit Song Information...].

Alternatively, you can select [Edit] - [Batch Edit Song Information...] by clicking the Menu button.



note You can also select and register the [Batch Edit Song Information...] by right-clicking (Windows) or control-clicking (Mac).

2. Click the text of the desired items in the “Batch Edit Song Information...” view to enter the text.



3. Edit the data for the items you selected.

A check mark will automatically be placed in the check box of the edited item. Removing the check mark finalizes the edit.

Text Information

When you click the text editing field located at the right of an item name, it will become editable. (Refer to "Editing the Text Data" on page 28.)

Attached picture

To change the attached picture, click the displayed image and select an image file you want. (Refer to "Editing the Picture Data" on page 28.)

Control Data (Balance, Gain, Fade In, Fade Out, DC Cut)

You can edit these settings by clicking the button and double-clicking the figure to enter a value (or by dragging the mouse up or down in the selected field). (Refer to "Editing the Control Data" on page 29)

File information

This allows you to check the file path or the type of phono equalizer that is being used during recording.

4. Click the OK button.

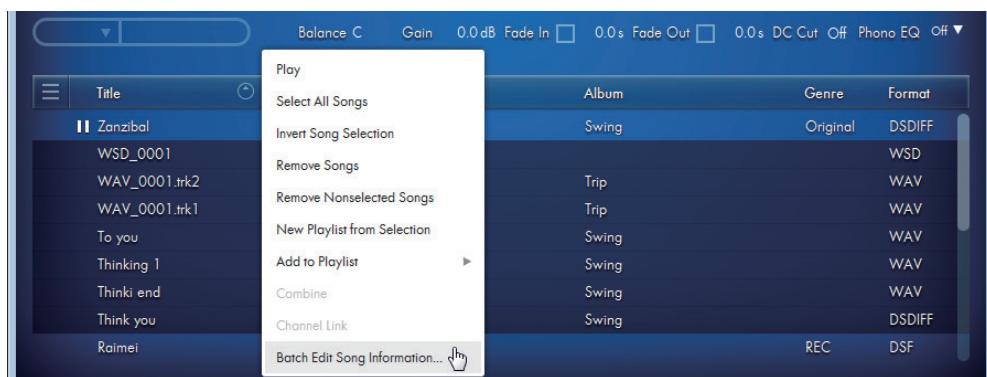
The metadata editing window will close, and the edits will be reflected in the Current Song.

note When a file is exported, this information is embedded in the header of the exported file. Depending on the file format, among the information embedded in the header, items that can be read or written are limited. If "Add iTunes songs" is executed, the information supported by iTunes overrides the others, regardless of the format.

Batch Editing—Multiple Songs

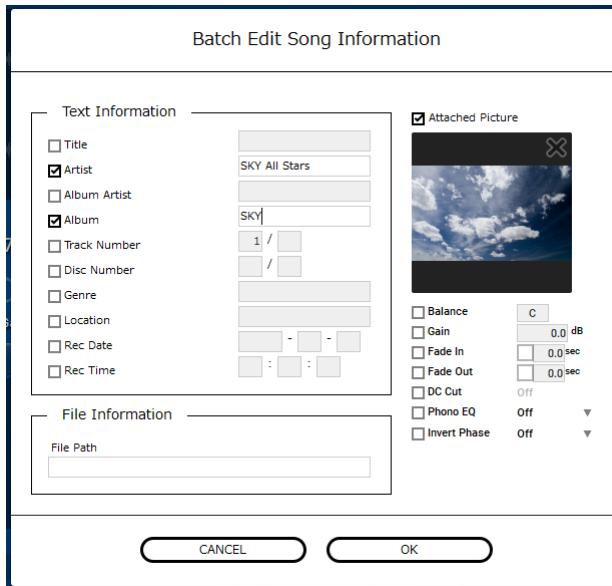
You can use batch editing to edit the metadata of multiple Songs at once.

1. Click the Song on the Songlist to select it.
2. To select multiple songs, hold down the Ctrl key (Mac: Command key) and choose other songs.
3. Move the mouse pointer onto the selected song, and click the Context Menu icon displayed to the right of the Title to select the [Batch Edit Song Information...] function.
Alternatively, you can select [Edit] - [Batch Edit Song Information...] by clicking the Menu button.



note You can also access the [Batch Edit Song Information...] by right-clicking (Windows) or control-clicking (Mac) in the Songlist.

4. Click the button to the left of each item you want to edit, so that the desired buttons are selected.



5. Edit the data for the items you selected.

See procedure 3: "Batch Editing—Song Information" on page 30.

6. Click the OK button.

The metadata editing window will close, and the edits will be reflected in the Songlist.

Dividing a Song

You can divide the Current Song into two separate Songs at any point.

When you divide a song, the original Song will be left as it was, and the two new Songs created by the Divide operation will be registered into the Songlist with new names.

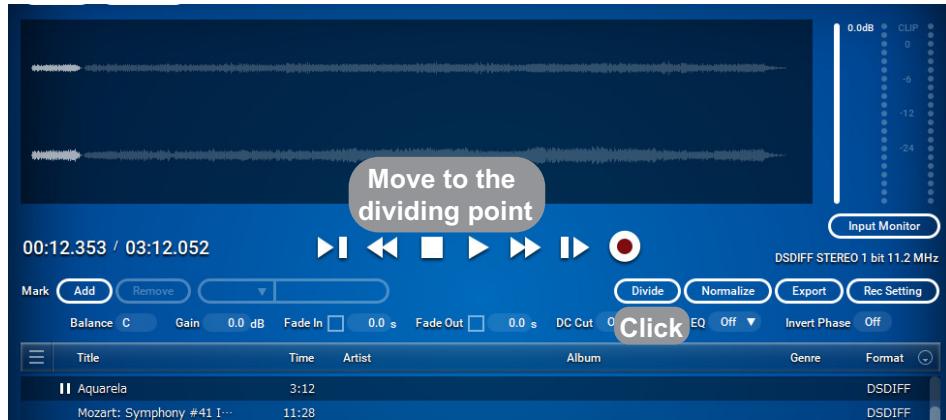
1. Use the song playback functions to move to the point where you want to divide the Song.

2. Make sure that playback is paused, and click the Divide button.

Alternatively, you can perform the same thing by clicking the Menu button and selecting the [Edit] - [Divide].

You will see that the Song has been divided in the Songlist.

note Text data and control information will generally be carried over into both Songs following the Divide operation.

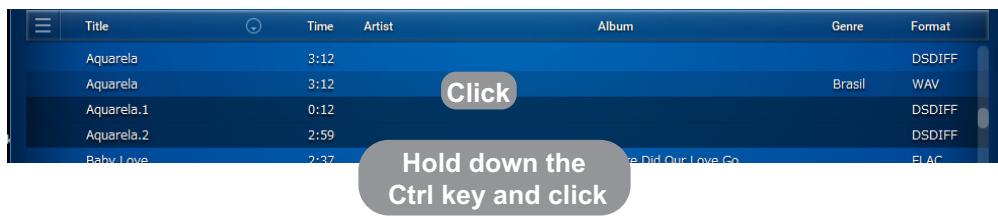


Combining Songs

Combining Songs splices the end of one Song directly to the beginning of another Song. When you combine songs, the original Songs will be left as they were, and the new Song created by the Combine operation will be registered into the Songlist with a new name.

Here's how you can combine two or more Songs into a single Song.

1. In the Songlist, click a Song to select it.
2. Hold down the Ctrl key (Mac: Command key), and click on additional Songs to select them.

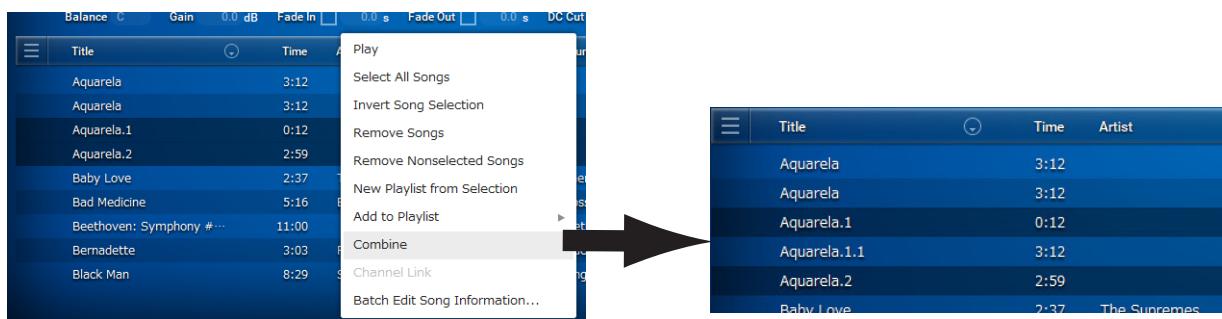


3. Move the mouse pointer onto the selected song, and click the Context Menu icon displayed to the right of the Title to select the Combine button.

Alternatively, you can select [Edit] - [Combine] by clicking the Menu button.

note You can also select and register the [Edit] - [Combine] by right-clicking (Windows) or control-clicking (Mac).

You will see that the Songs have been combined in the Songlist.



⚠ You can use the Combine function to join recordings together that were not originally separated by the MR Recorder's automatic split function, however a faint noise may be introduced at the point where the Songs are joined.

⚠ You can't combine Songs of differing formats.

⚠ You can't combine Songs that are in compression formats such as MP3, AAC, Apple lossless (ALAC), or WMA.

note Text data and control information will generally be taken from the top Song in the list.

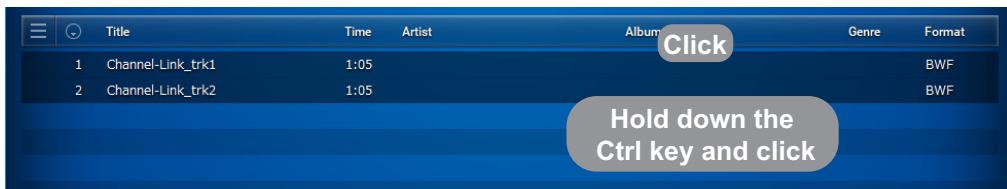
Channel Linking

The Channel Link feature allows two monaural Songs to be merged into a single stereo Song. Normally you will use this to link two Songs of the same length.

When you use the Channel Link feature the two original Songs will be left as they were, and the Song that was created using the Channel Link feature will be registered to the Songlist under a new name.

1. Click one of the Songs in the Songlist to select it.

2. Hold down the Ctrl key (Mac: Command key) and click the other Song so that both Songs are selected.

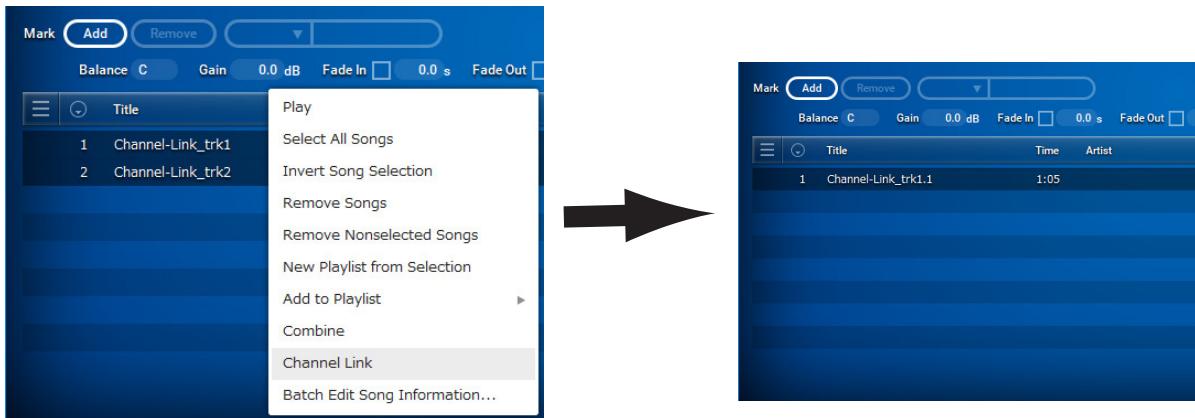


3. Move the mouse pointer onto the selected song, and click the Context Menu icon to the right of Title to select the Channel Link button.

Alternatively, you can select [Edit] - [Channel Link] by clicking the Menu button.

note You can also select and register the [Edit] - [Channel Link] by right-clicking (Windows) or control-clicking (Mac).

Verify that the Songs are linked in the Songlist.



⚠ You can't link Songs of differing formats.

⚠ You can't link Songs saved in compression formats such as MP3, AAC, Apple lossless (ALAC), or WMA.

⚠ If you link Songs that are of differing lengths, the resulting length will match the longer Song.

note Text data and control information will generally be taken from the top Song in the list.

Normalizing

When the Normalize button is pressed, the output level of the Current Song will be normalized to its maximum volume, and a Gain value will be set in the Control Data of the Song so that the peak value may not exceed 0 dB.



⚠ The result of normalization is not reflected in the song waveform display.

Using Marks

In Edit/Recording View, you can place Marks at specific location in your Song. By placing these Marks near editing points—or in between movements or sections of a longer recording, you will be able to quickly return to these points in the Song to perform any editing, such as dividing a track or listening to a critical passage. Marks can also be added during recording (refer to “Recording Procedure” on page 27).

Marks that can be Imported

AudioGate can load the following Marks.

- Marks included in an MR project
- Marks included in the cue-points chunk of a WAV/BWF file
- Marks (track start and index) included in the marker chunk of a DSDIFF file

Marks that can be Exported

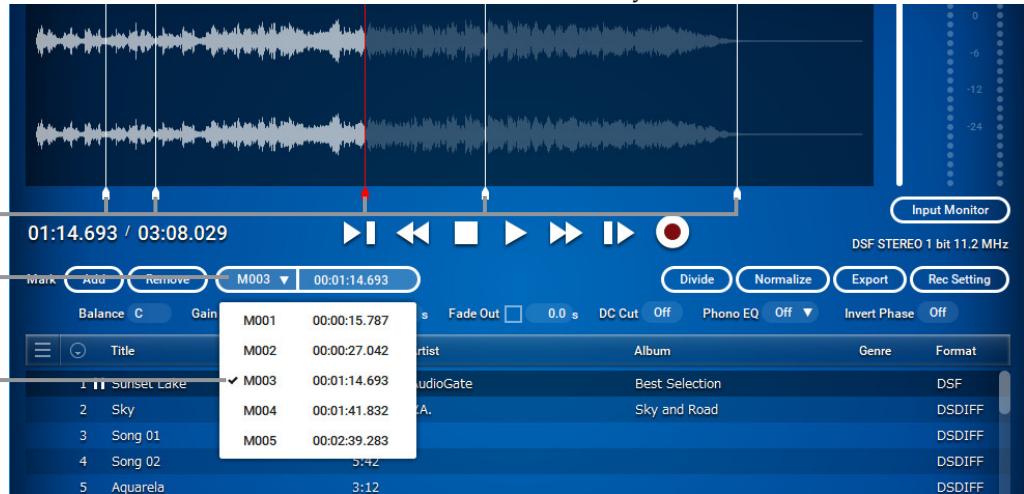
AudioGate can embed Marks when exporting the song to the following file formats.

- MR project format
- WAV or BWF files
- DSDIFF files

Editing Marks

If you click the Mark information, the Mark list will appear and you can edit any of the Marks in the list. In addition, the icons indicating the listed Marks are shown in song waveform display.

The Mark information, the checked Mark and the red icon denote the currently selected Mark.



Operation	Action
Selecting a Mark	Click on the Mark icon, or choose the Mark from the list. The selected icon will be red, and the current Mark will appear with a check in the list. The Mark information will show the number and position.
Adding a Mark	Click the Add button to add a Mark at the current position. You can't create multiple Marks at the same position.
Removing a Mark	Select the Mark (see above) and click the remove button.
Editing the location of a Mark	Select the Mark (see above) and click the displayed Mark time. The Time will become an editable field. Use the keyboard to enter the desired time and press the Enter key.
Removing all Marks from the Current Song	Click the Menu button and select the Menu item [Edit] – [Remove All Marks].
Dividing the Song at all Marks locations	Click the Menu button and select the Menu item [Edit] – [Divide At Marks].

Navigating between Marks

Operation	Action
Advancing to the next Mark	Click the FF button to move to the next Mark relative to the current position
Returning to the previous Mark	Click the REW button to move to the previous Mark relative to the current position
Moving to a specific Mark	Double-click on the Mark Icon; or click on the Mark information ▾ to select a Mark from the list.

Undo and Redo

Reverting an Edit (Undo)

You can quickly undo the most recent editing operation. Click the Menu button and select [Edit] - [Undo], and your most recent edit will revert to its previous state.

Re-executing the Edit (Redo)

To re-apply the recently undone edit, Click the Menu button and select [Edit] - [Redo]. Now you can continue editing.

Converting Songs for Export

AudioGate is able to convert the digital audio format of any Song in the Songlist for export, or to create an audio CD or DSD disc.

note Because Korg MR Series recorders do not necessarily support all formats supported by AudioGate, if you want the exported file to play on your MR Series recorder, the file must be converted to a format that your MR Series recorder supports. For more information, please refer to the owner's manual of your MR Series unit.

Exporting an Audio File

Using this method, AudioGate can convert the audio format of the Current Song or multiple Songs in a Playlist and export them as audio files—or as a “Project” compatible with Korg MR Series recorders. The title in the Songlist will serve as the name of the exported file(s).

note If a phono equalizer (Phone EQ) has been assigned to the Song for playback, the phono equalizer will be applied to the Song when it is exported. (Refer to “Editing the Control Data” on page 29.)

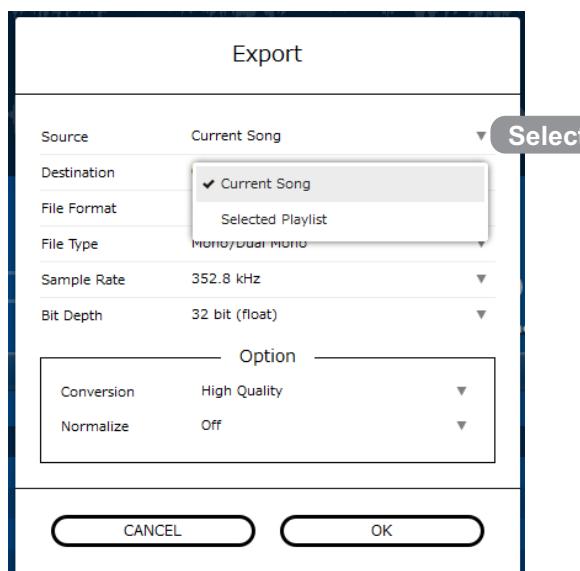
1. Make sure that the Songlist contains the Song that you want to export, then click the Export button.

The Export screen will appear.

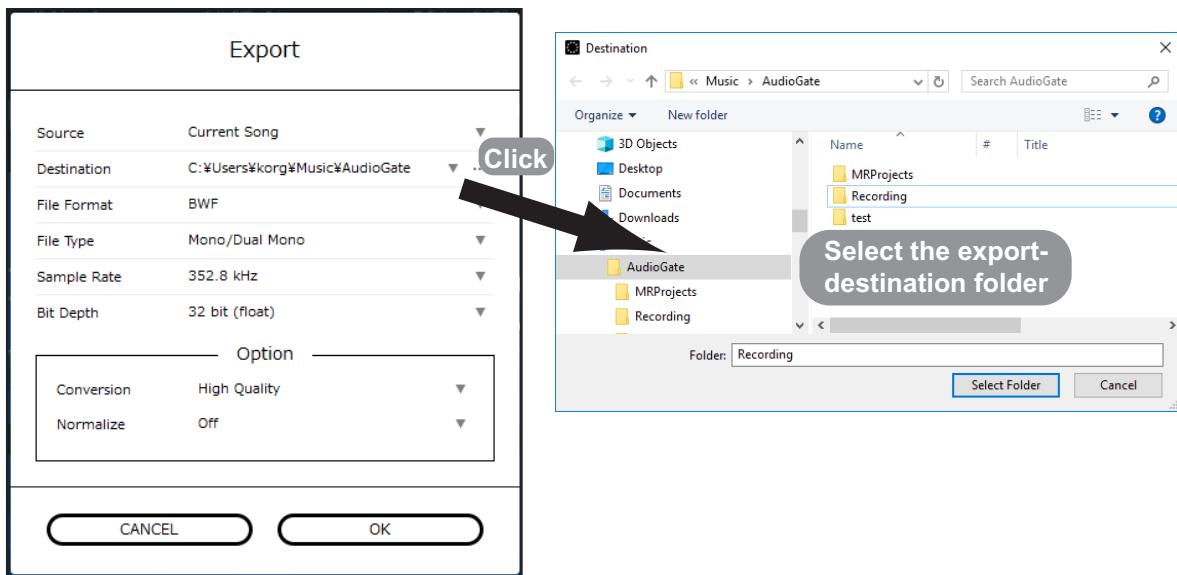


note Alternatively, you can select [File] - [Export...] by clicking the Menu button.

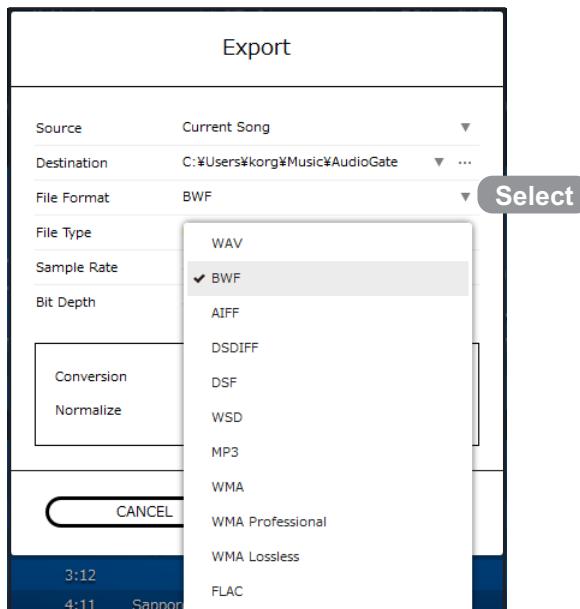
2. Choose either [Current Song] or [Selected Playlist] as the conversion source.



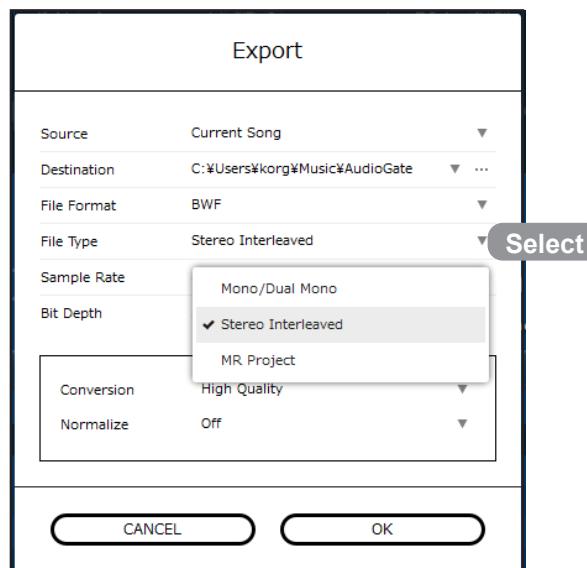
3. In the [Destination] area, click [...] and choose the export-destination folder.



4. Specify the desired output File Format.



5. Specify the desired output File Type.



Mono/Dual Mono

Mono Songs will be exported as monaural files; Stereo Songs will be exported as dual mono files.

Exporting a stereo Song in the Dual Mono file type is especially convenient if the file is going to be brought into in a DAW after export.

Stereo Interleaved:

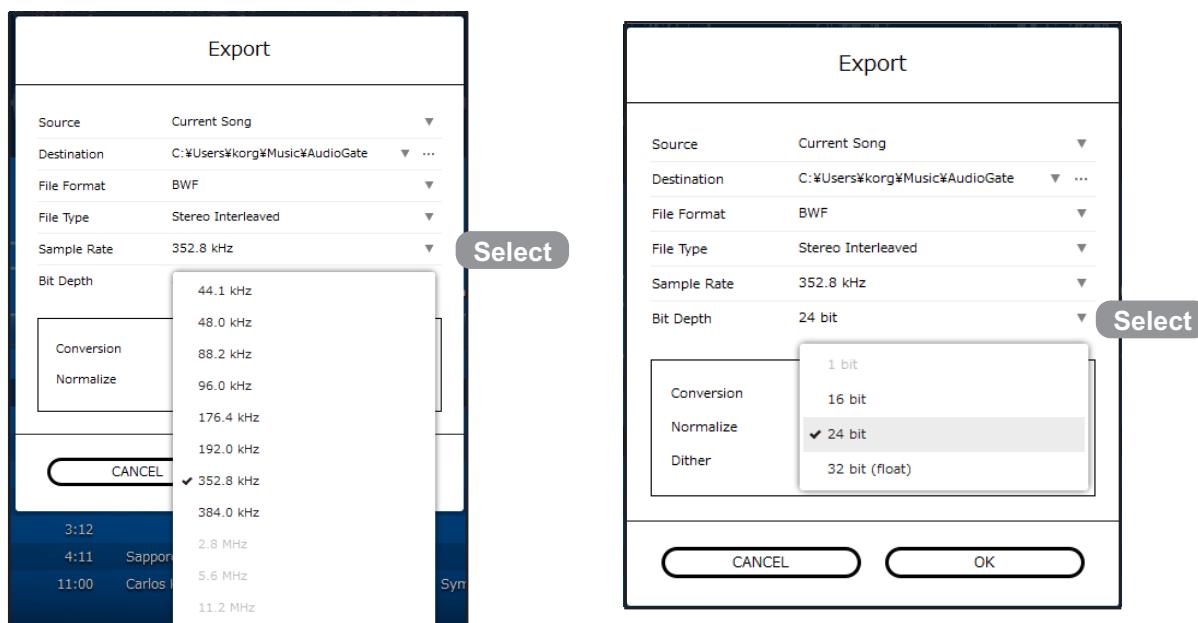
A channel-interleaved stereo file will be exported. In the case of a monaural song, the L channel and R channel will contain the same data. If you want to play back the file on the MR Series recorder, copy it into the AUDIO folder.

MR Project:

An MR project folder containing a .prj file and one or more audio files will be exported. This is useful when exporting very large audio data (exceeding the 4 GB limit of FAT32).

Marks edited by AudioGate can be embedded into the MR project. If you want to play back the Songs on your MR Series recorder, copy the file to the appropriate location in the MR_PROJ folder. Please refer to the owner's manual of your MR Series recorder for more information.

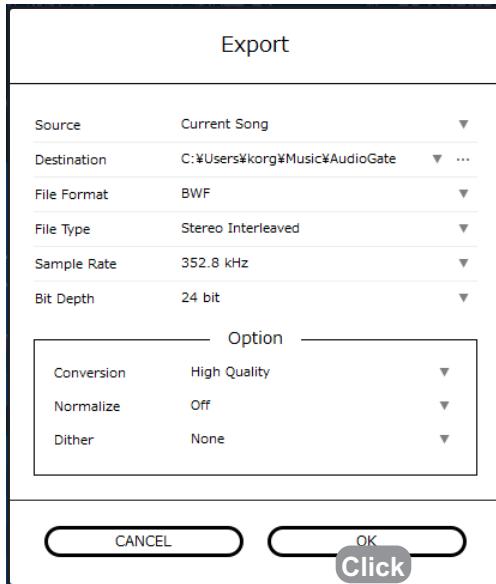
6. Specify the Sample Rate and Bit Depth that will be used for exported file.



7. Set any optional settings (see page 42) that may be required.

8. Click the OK button.

File conversion export will begin.



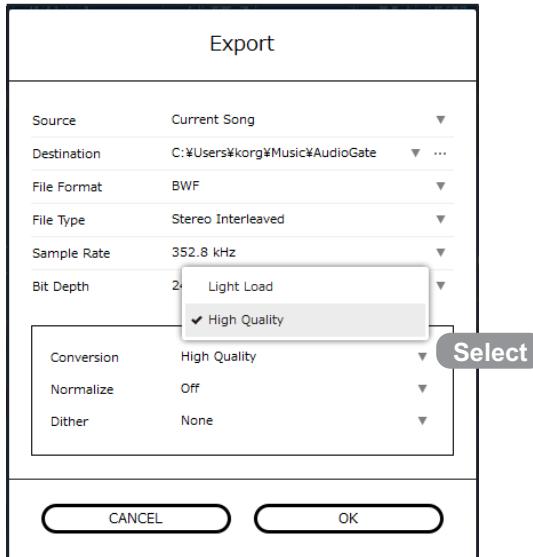
- ⚠️ Audio files in the 1-bit format may contain louder signals than audio files in the PCM format. When converting 1-bit audio files to PCM files, it may be necessary to lower the gain settings by approximately –3.0 dB to avoid clipping (see page 29).
 - ⚠️ When an audio file is exported in the 1-bit format, a minimal amount of silence may be added to the end of the exported file.
- note** If the original format and the exported file have the same sample rates, and if the Control Data settings remain at their default settings (see page 29), AudioGate may switch to the “direct exporting mode” where unnecessary recalculation is reduced. The level meter will remain fixed at 0dB when AudioGate is operating in the “direct exporting mode.”

Optional Settings

When exporting an audio file(s), these optional parameters allow you to make detailed settings that control the conversion algorithm. The available parameters will change based on the output format you've chosen.

Conversion

Based on your needs, you can choose the type of conversion process that will be used.



Light Load:

AudioGate will use a high-speed conversion engine with particular attention to sound quality.

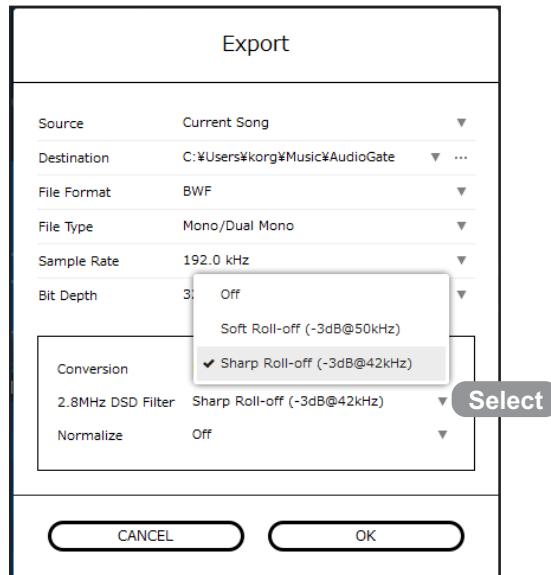
High Quality:

This high-definition conversion engine uses additional CPU processing power to allow a greater emphasis on sound quality.

note CPU utilization may run very high during the High Quality export process.

2.8 MHz DSD Filter

When converting a Song(s) from the 1-bit/2.8 MHz format to the 176.4 kHz or 192 kHz PCM format, an additional low-pass roll-off filter can be applied.



Off

The additional filter will not be applied.

Soft Roll-off (-3dB@50kHz)

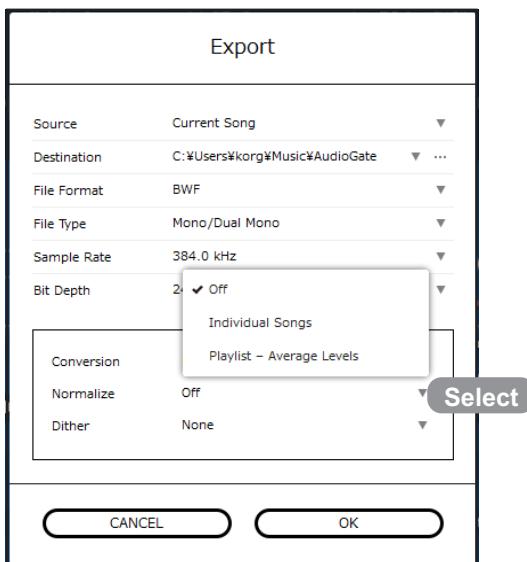
Applies a low-pass filter with soft roll-off.

Sharp Roll-off (-3dB@42kHz)

Applies a low-pass filter with sharp roll-off.

Normalize

Normalization continuously adjusts the gain to its optimal value—that is, as high as possible without introducing distortion. When you select normalization, the gain of each Song will be automatically adjusted.



Off

Normalization will not be applied. The volume level after conversion will be determined by the original gain setting.

Individual Songs

Each Song will be normalized individually to its respective maximum volume. The original gain setting will be completely ignored.

Current Songlist Selections (avg. level)

The maximum peak from all Songs being exported will be found, and all Songs will be normalized while preserving the original volume balance between songs, as determined by the original gain settings.

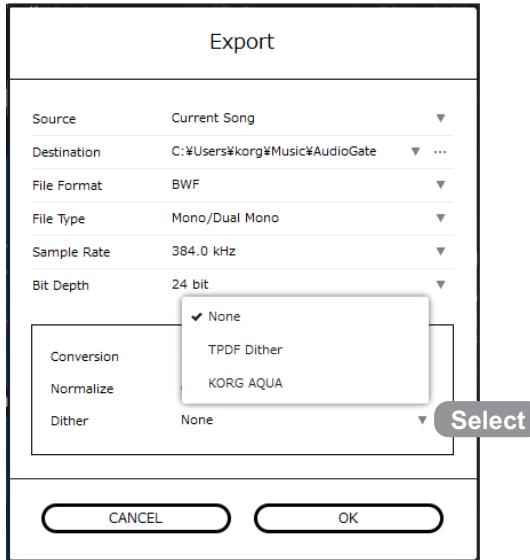
- note** When you use normalization, the automatically-adjusted gain will be indicated in blue text while the files are being exported.
- note** In general, converting the sample rate will require samples to be interpolated, possibly causing the peak levels to be slightly higher than the original data. If the song's peak level was already close to 0 dB before normalization, the gain may be automatically adjusted to below 0 dB.
- note** 1-bit audio data may contain loud sounds that exceed the limits of PCM. If normalization is applied when converting 1-bit audio to PCM, the gain may be automatically adjusted to about -3.0 dB.
- note** When exporting in a 1-bit audio format, normalization is applied referenced to 0 dB-SACD, but in some cases the output data may slightly exceed the reference value (i.e., the level meter indication may exceed 0 dB). Even in this case, the signal is far lower than the theoretical clipping level for 1-bit audio, so there will be no problem with the exported data as long as the clip indicator does not light up.

When normalization has completed successfully, and the file export (or disc creation) process has ended, a dialog box will ask "Do you want to load the normalized gain setting to the Songlist?" If you choose "Load," the gain setting used for normalization will be applied to the "Control data" for each Song.

- note** By applying the gain used for normalization to the "Control data" of each song, and then exporting with the Normalize box set to [Off], you can greatly reduce the processing time for subsequent exports. However if you've changed the output sampling frequency, the peak values of the output data will change slightly, so you'll need to perform the normalization process once again.

Dither

Often part of the final audio mastering procedure, dithering is used to minimize the perception of digital quantization when converting the digital format. These dither parameters are used for exporting the results of extremely precise internal calculations as 16/24-bit data.



None

The results of the internal calculations are rounded up or down to 16/24-bit data. If the volume of the Song is sufficiently loud, there will be no particular problems even with this setting selected.

TPDF Dither

Standard white noise dithering will be applied. The noise floor will increase slightly, but distortion components can be completely suppressed. Choose this Dither type if you plan to continue editing the file using another application after exporting the song; such as importing the file into a DAW, etc.

KORG AQUA

This method takes into account the characteristics of human auditory perception, producing a higher-quality master by limiting the increase of quantization noise in important frequency regions. Choose this Dither type if you're exporting a Song as the final master.

note AudioGate is able to automatically detect situations where dithering is not necessary. Even if dithering is set to [TPDF Dither] or [KORG AQUA], this setting may be ignored in some cases to avoid any increase in noise.

Creating an Audio CD or DSD Disc

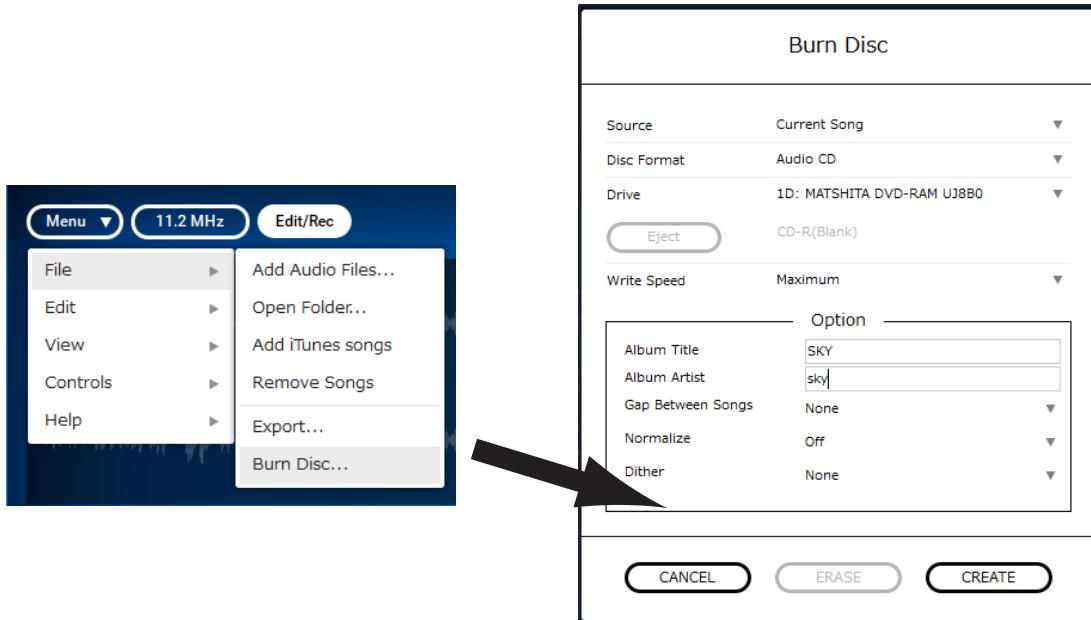
The current Playlist can be used to create an audio CD or DSD disc.

Each song in the Playlist will be written as an individual track on the disc.

If the format of a Song does not match the format of the disc, the format will be automatically converted before writing the Song to disc.

1. To create a disc that only contains the Current Song, click the Menu button and select [File] - [Burn Disc...].

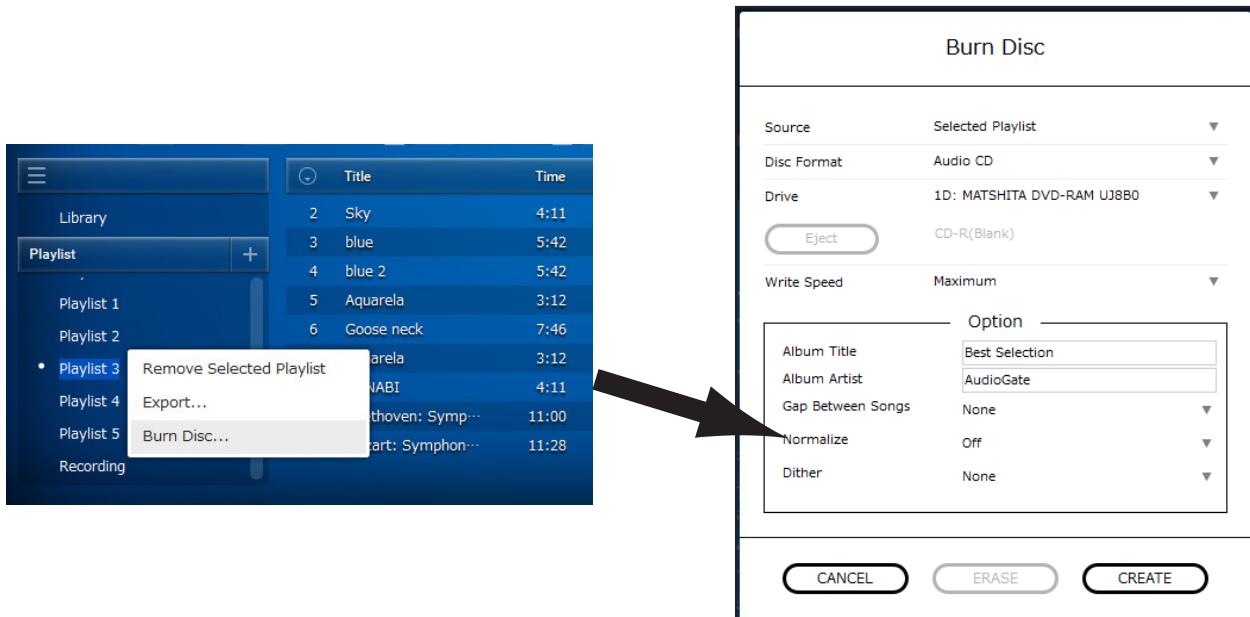
The Burn Disc setting screen will appear.



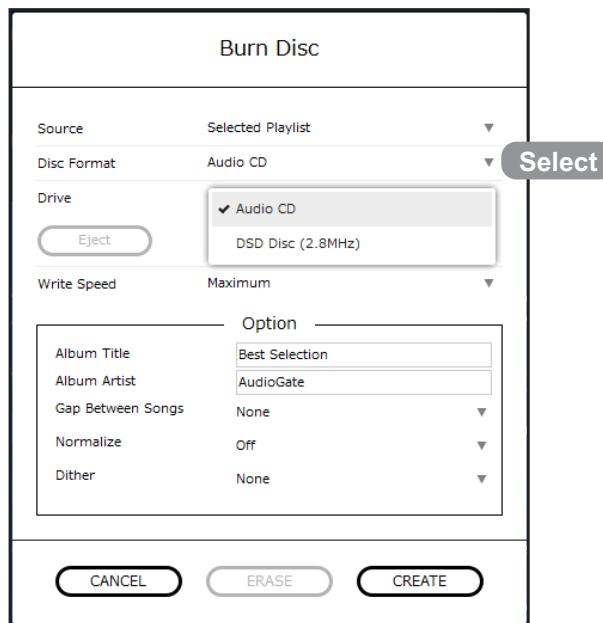
You can also create a disc from the Playlist. To do so, click the Side bar Display button to display the side bar, right-click (control-click Mac) a Playlist file, and select [Burn Disc...].

The Burn Disc setting screen will appear.

If the output source parameter is set to [Current Song], change this setting to [Selected Playlist].



2. Select the format of the disc that you want to burn.



3. Select the drive you'll use to burn the disc from the list of writable CD/DVD drives.

note If you're creating a DSD disc, you must select a drive that can write DVDs.

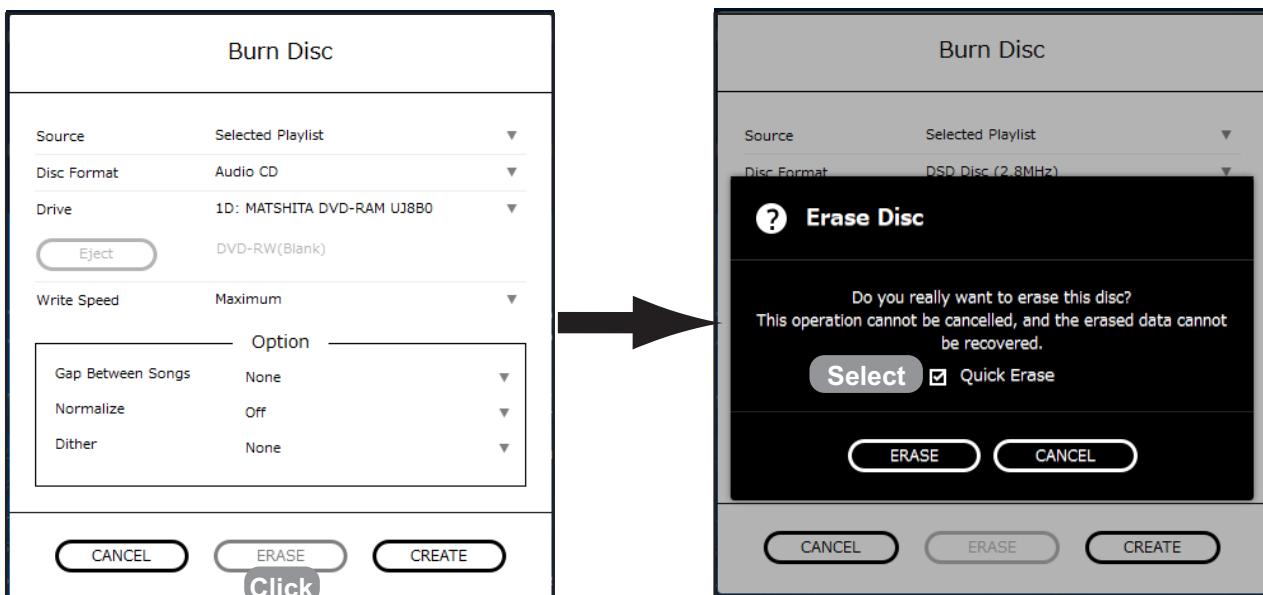
4. Insert a blank disc or a rewritable disc (CD-RW, DVD-RW, DVD+RW) into the drive that you selected in step 3.
If any other applications are open, close them and exit those applications.

note If you're creating an audio CD, you must insert a CD-R or CD-RW disc.

note If you're creating a DSD disc, you must insert a DVD-R, DVD-RW, DVD+R, or DVD+RW disc, choose whichever type your drive supports.

5. If you've inserted a previously-used rewritable disc, click the ERASE button.

The Erase Disc dialog box will appear.



6. Choose "Quick Erase" or "Full Erase."

Quick Erase

The disc's TOC (Table Of Contents) information will be erased to make the disc usable. While this method is faster, in some cases more errors may occur, depending on the overwrite performance of the disc. If you experience problems when creating a disc, we recommend that you use Full Erase.

Full Erase (un-check the Quick Erase check box)

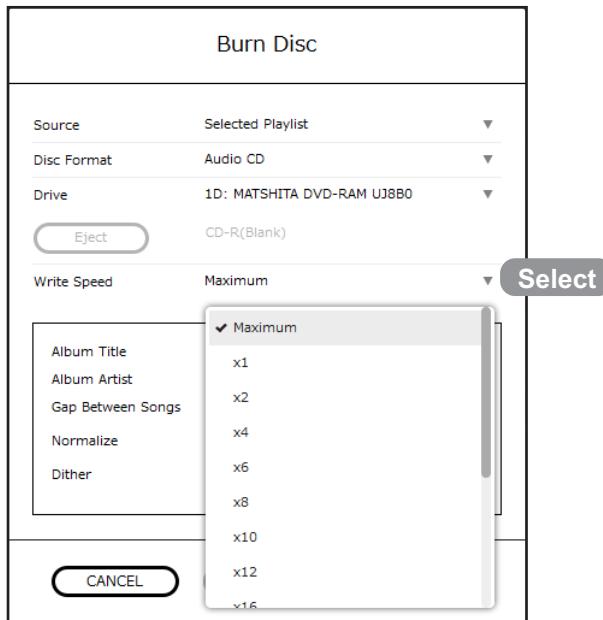
The disc will be completely erased to make it usable. This will often take more time than Quick Erase.

⚠ When you erase a disc, all data will be lost. You cannot cancel or undo this operation.

7. Click the ERASE button to make the disc usable.

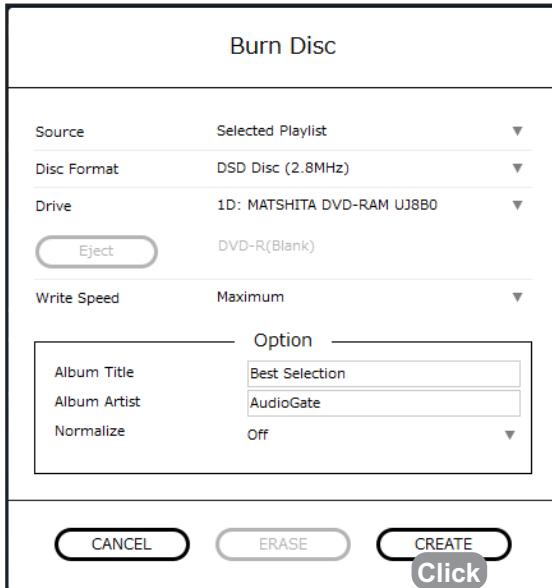


8. Specify the disc writing speed.



9. Set any optional settings (see page 50) that may be required.

10. Click the CREATE button.

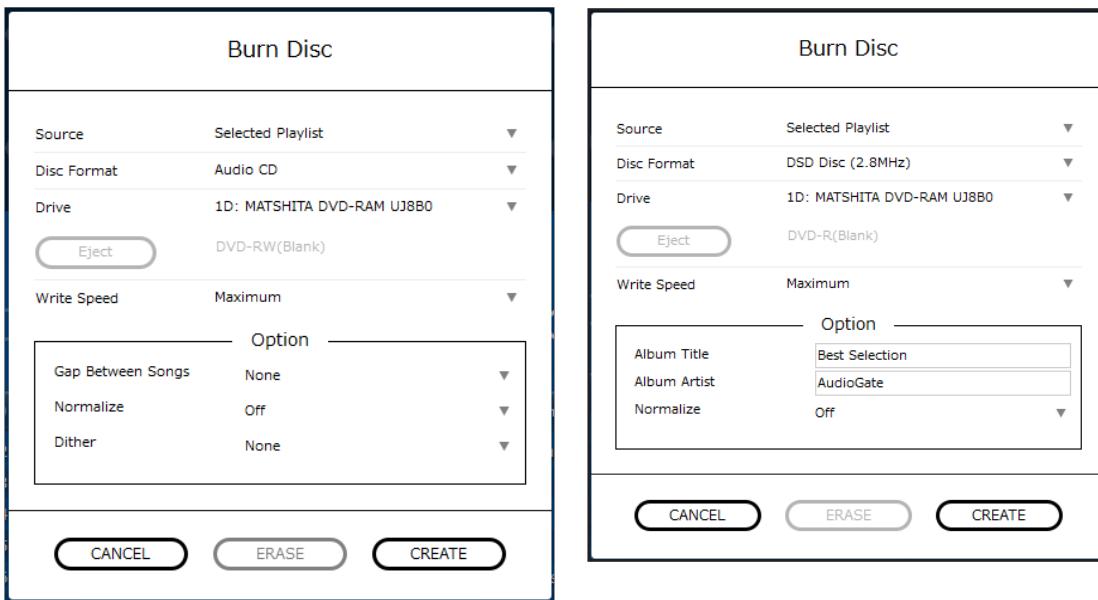


Format conversion and the disc burning process will begin. A dialog box will open to show the progress.

- 11. When the disc has been successfully created, the dialog box will indicate "Writing completed. Do you want to create another disc?", and the disc will be ejected.**
- 12. If you want to create another identical disc, insert a blank disc and choose [CREATE].**
If you're finished, choose [DON'T CREATE].

Optional Settings

When creating a disc, you can edit the Album and Artist name, the spacing between songs, normalization options, and the dithering type. The available parameters will depend on the output format.



Album Title

The album title will serve as the name of the audio CD or DSD disc.

This information is embedded in the disc, and can be displayed by players that support it.

note When creating an audio CD, this is written as CD-TEXT.

⚠ Use alphanumeric characters if you're creating an audio CD. Certain drives may not allow you to specify this information.

Album Artist

Here you can add the Artist's name to the audio CD or DSD disc.

This information is embedded in the disc, and can be displayed by players that support it.

note When creating an audio CD, this is written as CD-TEXT.

⚠ Use alphanumeric characters if you're creating an audio CD. Certain drives may not allow you to specify this information.

Go Between Songs

This parameter allows you to specify the amount of time between individual songs on an audio CD. For a drive that supports Disc-At-Once, you can create a gapless CD by specifying [None] as the song spacing.

⚠ On some drives, the song spacing you specify might not be applied correctly.

⚠ When you create a gapless CD, the location of the track division (the point at which songs are divided) might be automatically adjusted forward by a maximum of 1/75th of a second.

Normalize

Refer to "Normalize" on page 44.

Dither

Refer to "Dither" on page 45.

note If a phono equalizer (Phone EQ) has been assigned to the Song for playback, the phono equalizer will be applied to the Song when it is exported and burned to disc. (Refer to "Editing the Control Data" on page 29.)

Auto Update Function

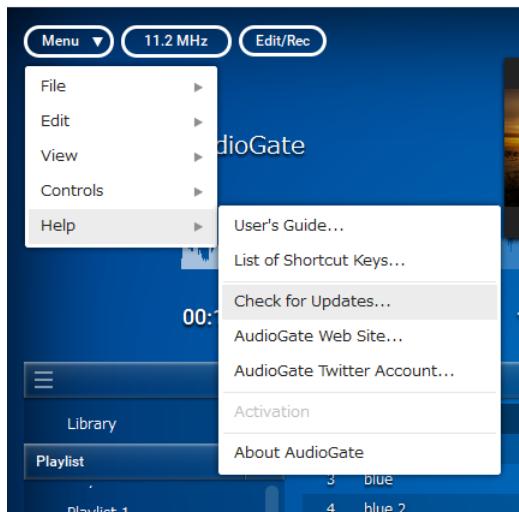
AudioGate is able to check for updates via the Internet.

By keeping your copy of AudioGate updated to the latest version, you can ensure that you're getting the best performance and stability.

Manually Checking for Updates

1. Make sure that your computer is connected to the Internet, click the menu button and select the menu item [Help] - [Check for Updates...].

"Korg Software Update" will start up.



2. If a newer version of AudioGate is found, make sure that the "Install" check box is selected, and then click the Download button.

Downloading will begin.

note When downloading is completed, the save-destination folder will appear. If you want to install the new version immediately, close AudioGate and then start up the installer.

Automatically Checking for Updates

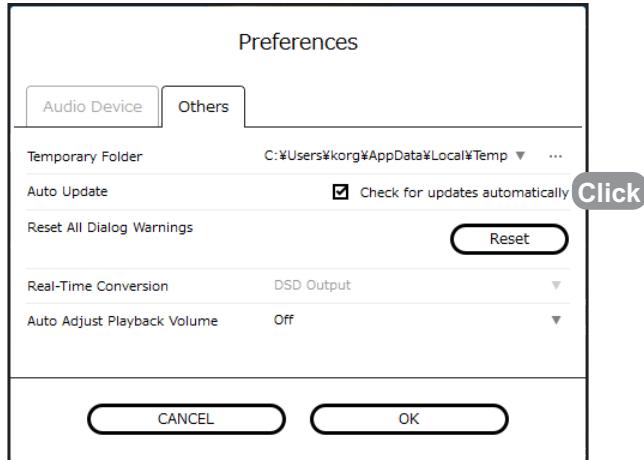
You can edit settings so that AudioGate will automatically check for updates when it is started.

1. Click the display section of the sample rate in the audio device.

You can also click the menu button and select [Edit] - [Preferences...] to display it.

2. Click the [Other] tab.

3. If the item [Check for updates automatically] of [Auto Update] is not selected, click the check box to select it.



With this setting, AudioGate will check for updates when it is started up, and "Korg Software Update" (described earlier) will start up if a newer version is available.

Other Settings

Changing the Folder where Temporary Files are Created

AudioGate occasionally creates temporary files when creating a disc or adding audio files.

Here's how to change the location where these temporary files are created.

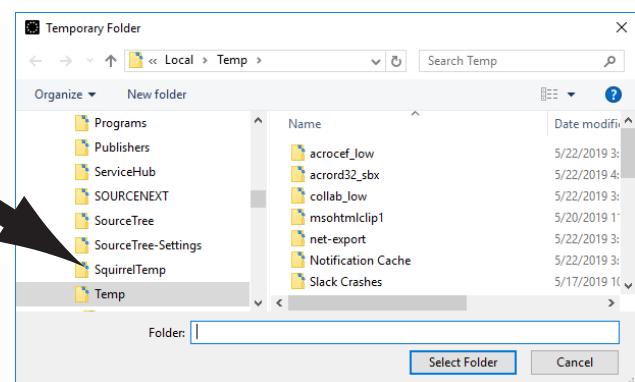
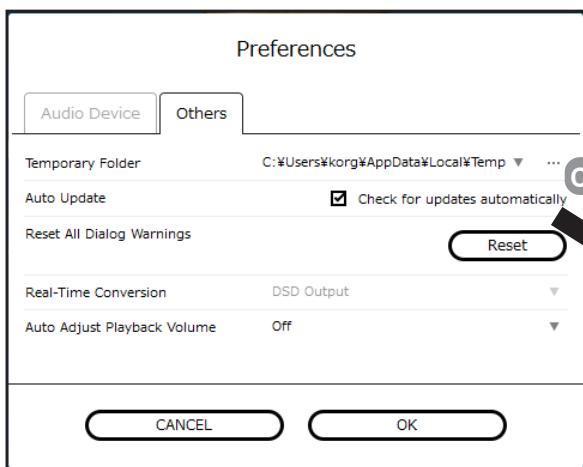
1. Click the display section of the sample rate in the audio device.

You can also click the menu button and select [Edit] - [Preferences...] to display it.

2. Click the [Others] tab.

3. In [Temporary Folder], click [...] and select the desired folder.

note We recommend that you specify a hard disk drive with plenty of free space as the location where the temporary file folder is created.



Resetting the Warnings of All Dialog Boxes

Some warning dialog boxes have an option "Do not show this message again." If this check box is selected, that warning will no longer appear.

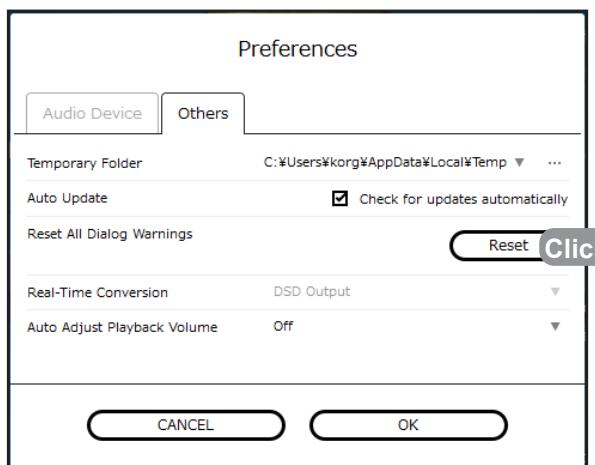
Here's how to make these suppressed warnings appear again.

1. Click the display section of the sample rate in the audio device.

You can also click the menu button and select [Edit] - [Preferences...] to display it.

2. Click the [Others] tab.

3. In [Reset All Dialog Warnings], click the Reset button.



Checking the real-time conversion processing

You can check the current status of real-time conversion processing.

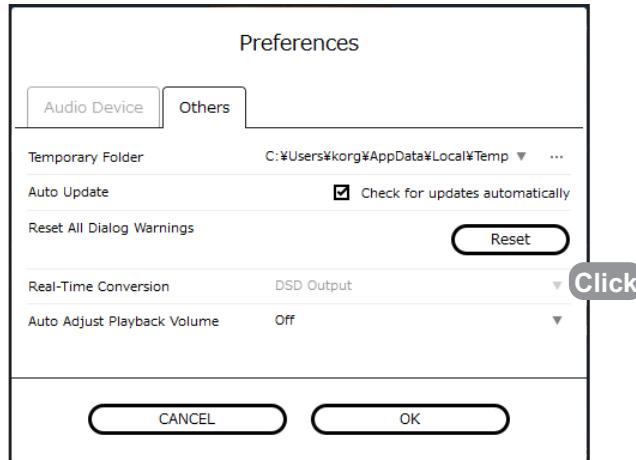
1. Click the display section of the sample rate in the audio device.

You can also click the menu button and select [Edit] - [Preferences...] to display it.

2. Click the [Others] tab.

3. In the [Real-Time Conversion] section, check the real-time conversion processing.

When the signal is being converted to DSD in real time, “DSD Output” is displayed; and when the signal is being converted to PCM in real time, “PCM Output” is displayed.

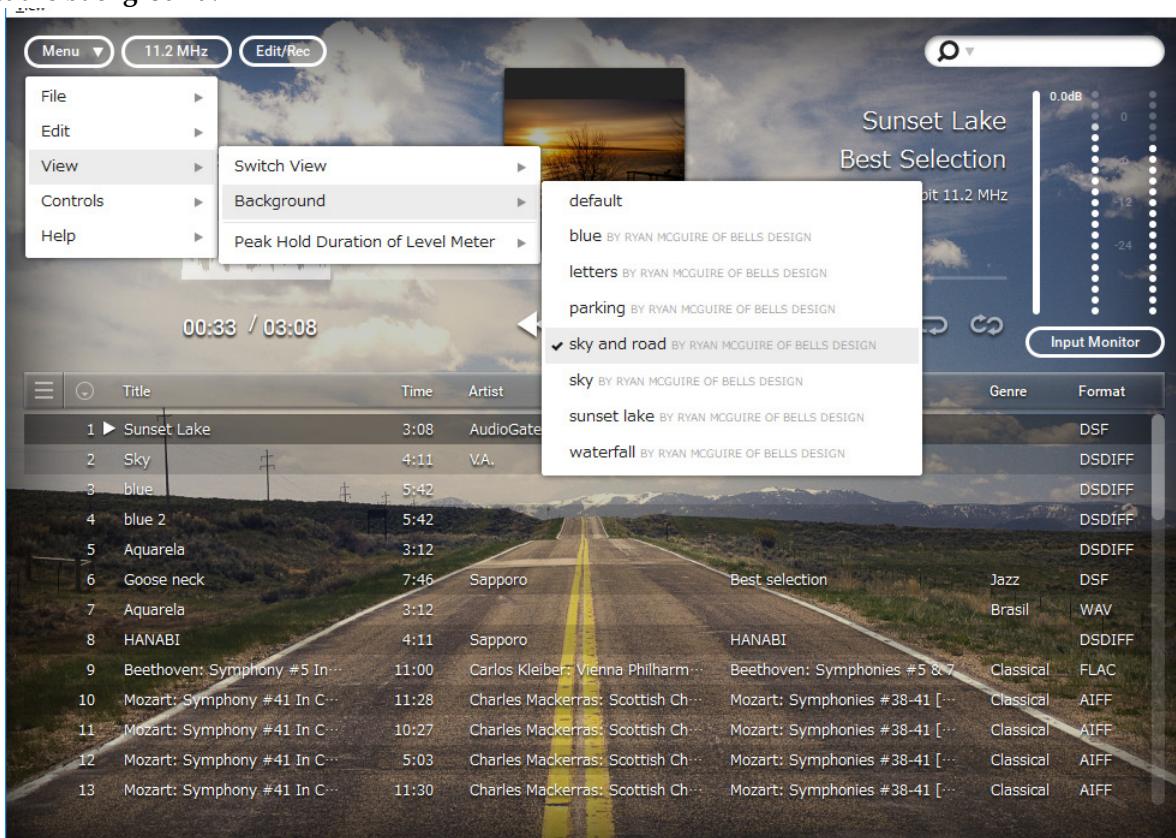


Switching Background

You can select your favorite background image from several different choices.

1. Click the menu button and select the menu item [View] - [Background].

2. Select the background.



Regarding the FLAC license

AudioGate uses the FLAC library pursuant to the following license.

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Regarding the libcurl license

AudioGate uses the libcurl library pursuant to the following license.

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Supported Formats

Supported File Formats

AudioGate is able to import/export (input/output) audio files of the following formats.

	File format (extension)	Windows		Mac		Number of channels	Sample rate	Bit depth
		In	Out	In	Out			
PCM	WAV (.wav)	●*1	●*1	●*1	●*1	1ch 2ch	44.1 kHz, 48 kHz 88.2 kHz, 96 kHz 176.4 kHz, 192 kHz 352.8 kHz, 384 kHz	16 bit, 24 bit 32 bit(float)
	BWF (.wav)	●	●	●	●			
	AIFF (.aif/.aiff)	●	●	●	●		16 bit, 24 bit	
1-bit	DSDIFF (.dff)	●	●	●	●	1ch 2ch	2.8224 MHz	1-bit
	DSF (.dsf)	●	●	●	●		5.6448 MHz	
	WSD (.wsd)	●	●	●	●		11.2 MHz	
Irreversible compression	MP3 (.mp3)	●	○*4	●		1ch 2ch	44.1 kHz, 48 kHz	—
	AAC (.m4a)	○*2		●	●			
	WMA (.wma)	●	●	○*3				
	WMA Professional (.wma)	●	●	○*3		2ch	44.1 kHz, 48 kHz 88.2 kHz, 96 kHz	
Lossless compression	WMA Lossless (.wma)	●	●	○*3		2ch	44.1 kHz, 48 kHz 88.2 kHz, 96 kHz	16 bit (only 44.1 kHz), 24 bit
	Apple Lossless [ALAC] (.m4a)	○*2		●	●	1ch 2ch	44.1 kHz, 48 kHz 88.2 kHz, 96 kHz	16 bit, 24 bit
	FLAC (.flac)	●	●	●	●		176.4 kHz, 192 kHz 352.8 kHz, 384 kHz	

*1: AudioGate 4.5 and later versions support the import of 32-bit integer WAV files. (Note that these files are internally converted to 32-bit floating point data.) Export to 32-bit integer WAV format is not supported.

*2: Supported if QuickTime7 is installed

*3: Supported if Flip4Mac WMV is installed.

*4 Supported if Windows Media Player 10 or later is installed

⚠ In some cases, it may not be possible to correctly read files that were not created by a Korg MR Series unit or by AudioGate.

⚠ Audio files protected by DRM (Digital Rights Management) cannot be loaded.

Supported Disc Formats

AudioGate supports reading and writing of audio CDs and DSD discs.

AudioGate can create discs in the following formats.

Disc format	Audio CD (CD-DA)		DSD discs
Disc media	CD-R, CD-RW		DVD-R, DVD-RW DVD+R, DVD+RW
Approximate recording time	Approx. 74 minutes (when using 700 MB media)		Approx. 100 minutes (when using 4.7 GB media)
Number of albums that can be recorded on one disc	1		1
Maximum number of tracks that can be recorded on one disc	99		99
Recording time for one track	Minimum	4 seconds	0 seconds
	Maximum	Approx. 74 minutes	Approx. 100 minutes (4 GB)
Sampling frequency	44.1 kHz		2.8224 MHz
Bit depth	16		1
Number of channels	2		2
Recordable metadata	CD-TEXT format (alphanumeric only) <ul style="list-style-type: none">• Title• Artist name <p>* Not recordable for some drives</p>		ID3v2.3 format <ul style="list-style-type: none">• Title• Title (Read)• Artist name• Artist name (Read)• Album name• Album name (Read)• Album Artist name• Album Artist name (Read)• Track No.• Disc No.• Genre• Date and time of recording• Attached picture

⚠ Writing to dual-layer DVD media is not supported.

⚠ A writable CD/DVD drive is required in order to create audio CDs or DSD discs.

What are DSD Discs?

DSD discs are a new disc format that was created as a way for an individual to record and playback DSD format material. This means that the methods used to create audio discs on CD-R or CD-RW media are now also available for the world of DSD audio. DSD discs can be played on compatible players and enjoyed in their original high quality.

⚠ DSD disc is a disc format that is different than the Super Audio CD. Not all Super Audio CD players will necessarily be able to play back a DSD disc.

* DSD discs (1-bit; 2.8 MHz) created by AudioGate can be played back on players such as the Sony SCD-XA5400ES Super Audio CD/CD player, the Sony SCD-XE800 Super Audio CD/CD player or PlayStation®3 from Sony Interactive Entertainment LLC. DSD discs to be played on the Sony SCD-XA5400ES or the Sony SCD-XE800 require the following conditions. AudioGate meets these conditions. (As of August 21st, 2010, confirmed by KORG Inc.)

- Disc: DVD-R, DVD-RW, DVD+R, and DVD+RW, that are compatible with DVD-ROM specifications

- File extension: dsf
 - Folder type: DSD_DISC folder
 - Maximum size of a file: up to 4GB
 - Channel: 2-channel
 - Maximum number of playable files: up to 150 files per folder
 - Maximum number of playable folders: up to 200 folders per disc
 - Maximum number of playable layers: up to 8th layer
 - Sampling frequency: 2.8224 MHz
- * The availability of these products may vary by country.
- * PlayStation is a registered trademark of Sony Interactive Entertainment LLC.
- Japan: <http://www.jp.playstation.com/>
- US: <http://www.us.playstation.com/>
- Europe: <http://uk.playstation.com/country-selector/>
- Please check following URL for other countries.
- <http://www.playstation.com/country-selector/>
- * "DSD Disc Format" is a trademark of Sony Corporation.
- * All product names and company names are the trademarks or registered trademarks of their respective owners.
- Specifications are subject to change without notice for improvement.

List of Shortcuts

Function	Windows	Mac
Add Audio Files...	Ctrl + O	Command + O
Open Folder...	Ctrl + Shift + O	Command + Shift + O
Remove Songs	Delete	Delete
Export...	Ctrl + Shift + E	Command + Shift + E
Burn Disc...	Ctrl + Shift + B	Command + Shift + B
Exit	Ctrl + Q	Command + Q
Undo	Ctrl + Z	Command + Z
Redo	Ctrl + Shift + Z	Command + Shift + Z
Cut Text	Ctrl + X	Command + X
Copy Text	Ctrl + C	Command + C
Paste Text	Ctrl + V	Command + V
Select All Songs	Ctrl + A	Command + A
Select All Marks	Ctrl + Shift + A	Command + Shift + A
Divide	Ctrl + D	Command + D
Divide At Mark	Ctrl + Shift + D	Command + Shift + D
Remove All Marks	Ctrl + Shift + Delete	Command + Shift + Delete
Combine	Ctrl + J	Command + J
Channel Link	Ctrl + L	Command + L
Batch Edit Song Information...	Ctrl + Shift + I	Command + Shift + I
Preference...	Ctrl + ,	Command + ,
Add Mark	M	M
Edit Song Name	Ctrl + T	Command + T
Switch View	Ctrl + I	Command + I
Select Song Above	↑	↑
Select Song Below	↓	↓
Play Selected Song	Enter	Enter
Play/Pause	Space	Space
Rec//Pause	Ctrl + R	Command + R
Play From...	F	F
Play To...	T	T
Next Mark	Ctrl + Shift + →	Command + Shift + →
Previous Mark	Ctrl + Shift + ←	Command + Shift + ←
Next Song	Ctrl + →	Command + →
Previous Song	Ctrl + ←	Command + ←
Fast Forward	→ (Hold down)	→ (Hold down)

Function	Windows	Mac
Rewind	← (Hold down)	← (Hold down)
Move 0.001 second Forward	Shift + →	Shift + →
Move 0.001 second Backward	Shift + ←	Shift + ←
Move 0.05 second Forward	→	→
Move 0.05 second Backward	←	←
Move 1 second Forward	Alt + →	Option + →
Move 1 second Backward	Alt + ←	Option + ←
Direct Locate (Editing of current position)	G	G

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