SHARP

BeatJam

Get started with BeatJam

BeatJam

BeatJam_E_Front_Memo_Back 1 03.7.21, 8:17 AM

About copyrights

Music is protected by copyright law throughout the world.
Audio CDs and broadcasted music can be copied for personal use only.
It is prohibited to distribute, broadcast or publish your music copies on the Internet without permission of the copyright holders (including the record companies).

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Conventions

- This manual is described using Windows® XP. Screenshots may look different depending on your OS.
- 1024 x 768 pixels screens are used for the description. They may vary according to your settings.
- Menu, display and item names are in brackets ([ ]) and buttons in setting screens are shaded.
- Some screen designs may vary depending on the product, external device and medium.
- The default design for the mini player (charge navy blue) is used for the description. The design depends on the skin type. (Refer to page 32.)

About Help -details on BeatJam-

You can find more operational information or view troubleshooting.
Opening Help

- Click Help on the main player.
- Click MENU on the mini player and select [Help] from the menu.

Click Help to view the description on each setting.

About BeatJam

BeatJam allows you to create high quality music files from audio CDs, play and organize files on your PC.
You can also transfer those files to audio devices that support “OpenMG” and “MagicGate” (copyright protection technologies).
BeatJam adopts OpenMG. Enjoy recording and playing music without infringing on their copyrights.

◆Recording and playing audio CDs

You can create music files in OpenMG format from audio CDs and play files on your PC or transfer to compatible audio devices. Music can be recorded to MDs and other media.

◆Categorizing and managing music files automatically

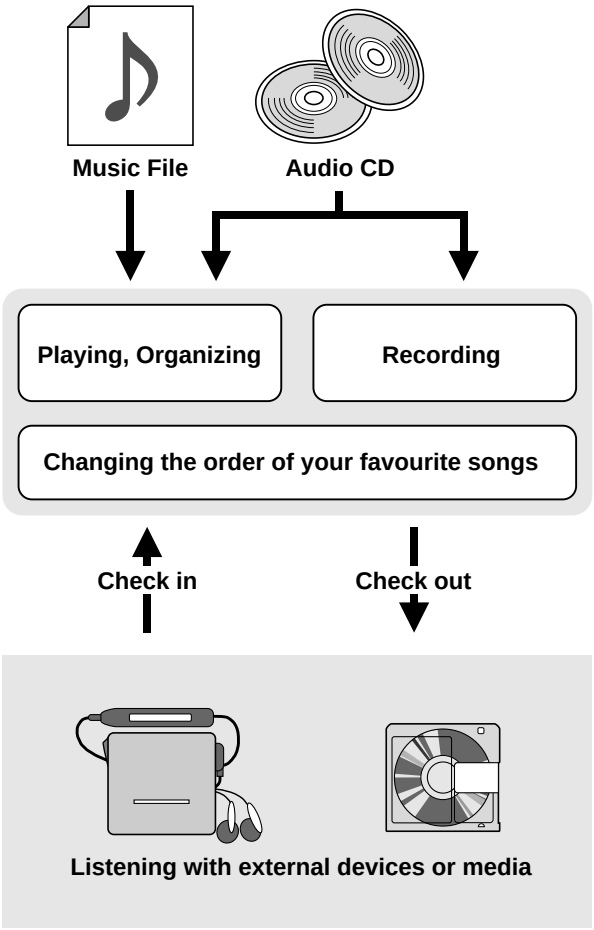
Files are sorted by album, artist and genre. You can create a playlist.

◆Using music files stored on your PC

Music files in MP3 and WAVE format can be played and controlled with BeatJam. You can convert these files to OpenMG format for checking out to other devices.

◆Listening to recorded and managed music on your audio device

Check out music files to OpenMG compatible audio devices. You can transfer music recorded with BeatJam from an audio CD up to three times. The order and titles of files can also be changed.

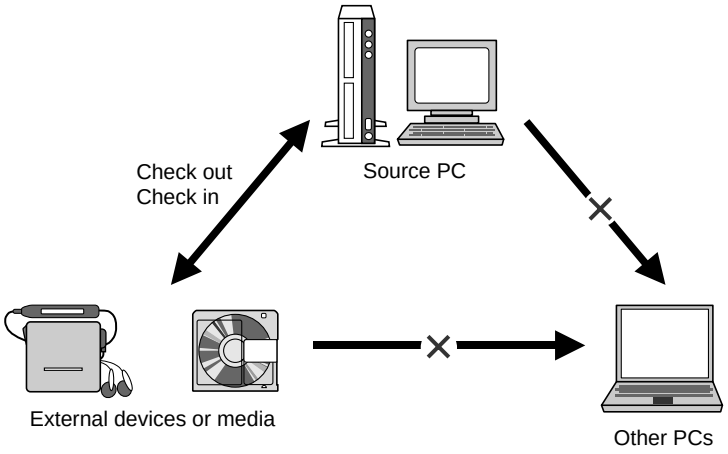

Music File
Audio CD
Playing, Organizing
Recording
Changing the order of your favourite songs
Check in
Check out
Listening with external devices or media

About copyright -OpenMG-

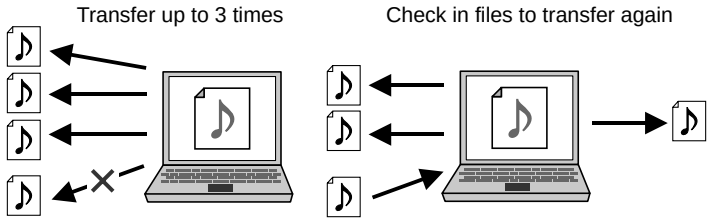
Music is protected by copyright law. Audio CDs and broadcasted music can be copied for personal use only.
It is prohibited to distribute or broadcast copies or publish your music copies on the Internet without permission of the copyright holders (including the record companies).
Please respect the copyright law when using BeatJam music files.

◆What is “OpneMG” copyright protection technology ?

Copyright protection technology which is used when creating and playing music files. Data are encrypted to disable transferring to other PCs and illegal distribution on the Internet.



OpenMG files recorded from audio CDs can be transferred up to three times. Check in files to the source PC to check them out to other devices or media.



◆Restrictions based on OpenMG's copyright protection

BeatJam employs OpenMG. The following restrictions are applied to music files recorded or edited by BeatJam.

- Music files recorded with BeatJam can only be played on the source PC.
- Even if you copy files transferred to external devices or media, files cannot be played back on other PCs.
- Files transferred to external devices or media can only be checked in to the source PC.
- Certain conditions (playing period, count) may be applied, depending on the copyright holders or service providers.

For details on OpenMG, visit
http://www.openmg.com/

Installing BeatJam

Before you begin

See the table below for the system requirements, especially free space and memory.

OS	Windows® XP Home Edition*1/ Professional*1	Windows® Millennium Edition	Windows® 98 Second Edition	Windows® 2000 Professional*1
CPU	Pentium® Ⅱ 300 MHz or higher (MMX® Pentium® 233 MHz minimum)	MMX® Pentium® 233 MHz or higher (MMX® Pentium® 200 MHz minimum)		MMX® Pentium® 233 MHz or higher (MMX® Pentium® 200 MHz minimum)
Memory	128 MB or more (64 MB minimum)	64 MB or more		64 MB or more
Others	● Display...1024 x 768 resolution, High Color or upper ● Sound source...Sound card			

*1 To use this software, login as system administrator (computer administrator).

Hard disk space

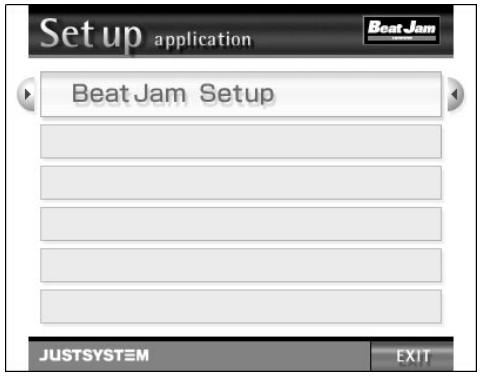
120 MB or more
* Additional space is required to store music data.
* The required space depends on the format or reserved space.

- USB ports are required to connect with external devices or media. The operation via USB hub is not guaranteed.
- Depending on the driver or CD-ROM drive, audio CDs may not be recorded.
- Operations are not guaranteed when using BeatJam
  - on dual-boot computers.
  - with other music software simultaneously.
  - with different version simultaneously.
  - You cannot use BeatJam with programs that create virtual CD-ROM drives.
  - You cannot use BeatJam when more than one OpenMG compatible audio device is connected.

Installation

Plugin and USB driver required for transferring music files are also installed along with BeatJam.

1. Insert BeatJam CD-ROM into the CD-ROM drive.
Setup application appears.



2. Click Beat Jam Setup **.**
Setup starts.
Follow the instructions on the screen.

Tip

Installation does not start even if CD-ROM is inserted
If the setup application does not appear, perform the following.

1. **Click Windows [Start] button and select [My Computer].**
   Double click [My Computer] on the desktop if you use Windows® Me, 98SE or 2000.
2. **Right click on [OMGBJ] indicating CD-ROM drive and select [Open] from the menu.**
3. **Double click AUTOPLAY.EXE from the list.**

Caution

Windows® XP/2000
User with Administrator* rights needs to log on. Confirm with the network or computer Administrator if you are in a workgroup.
* User name in Administrator or Administrators group under Windows® 2000.

Caution

For Windows® XP and Me user
When you use the “System Restore” system tool in Windows® XP or Windows® Me, all the music files that you recorded or imported may become unplayable.
Please back up all your music files using the Backup Tool before executing “System Restore”.

Caution

If a previous version of OpenMG Jukebox* or SonicStage* is currently installed on your computer
OpenMG Jukebox or SonicStage should be upgraded.
The screen appears to prompt you to upgrade the software.
Click [Continue] to proceed.
* OpenMG Jukebox and SonicStage are softwares of Sony Corporation.

Caution

Hard disk contains old BeatJam database
You can select to reuse or delete the database during setup.

Caution

Do not play BeatJam setup CD with audio devices
Loud noise may damage your hearing and speakers.

Tip

Keep CD-ROM handy
BeatJam setup CD will be used for reinstallation. Keep it after the installation.

Tip

Uninstalling

1. **Click Windows [Start] button and select [All Programs*1 - Justsystem - BeatJam - BeatJam Uninstall].**
2. **Click [Yes] on the confirmation screen.**
   Uninstallation starts.
   *1 [Program] under Windows® Me/98SE/2000.

You can also delete from [Change/Delete] under [Control Panel - Add/Delete Programs]*1 in Windows [Start]*2 menu.

*1 For Windows® Me/98SE/2000, delete from [Setting - Control Panel - Add/Delete Programs].
*2 For Windows® Me/98SE, delete from [Installation/Delete].

◆ Launching and quitting BeatJam

Start BeatJam after the setup.

◆ Launch BeatJam

Close other OpenMG applications or music softwares.

1. Double click [BeatJam] on the desktop.

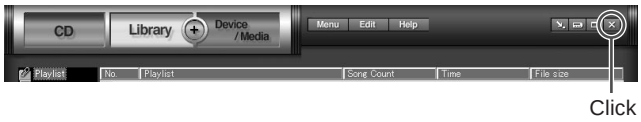
> Click Windows [Start] button and select [All Programs* - Justsystem - BeatJam - BeatJam].
> * For Windows® Me/98SE/2000, start from [Program].

◆ Quit BeatJam

You can exit either from the main player or the mini player.
The player from which you exit will appear next time.

● **Main player** ▸ See “Main player” on P. 24.

1. Click on the upper right of the screen.



Click

● **Mini player** ▸ See “Mini player” on P. 32.

1. Click .

Click

Using BeatJam

Recording audio CD to MD

Data can be recorded on a PC and other medium at the same time.

1 Entering information

1. Start BeatJam.
▶ See “Launch BeatJam” on P. 11.

2. Click CD at the top of the main player.
CD panel appears.

3. Insert an audio CD to CD drive.
Click ■ if started automatically.
The audio CD information appears automatically.

4. Click [Album Title] and enter a name.

Click and enter a name

5. Click [Artist] and enter a name.

6. Click [Genre] and enter a genre.
Or click the rightmost ▼ and select from the list.

7. Select a song from the list.

8. Click [Title] and enter a name.

9. Press the Enter key.
The title is set.

10. Repeat steps 7 to 9 if necessary.

Caution

First time use
When setting an audio CD for the first time, drive check will be performed to see if an audio CD is played or recorded properly.
The following CDs will not be checked.
- 8 cm CD
- The second last song is less than 90 seconds
- CD containing extremely low sounds

2 Recording

1. Select songs and check the boxes (☑).
Only checked songs (☑) are recorded.

2. Insert the MD.

3. Click [Rec to] and select [Library + Net MD].

4. Select the recording mode from LP | SP.
▶ See “To set MD recording mode” on P. 15.

5. Select the bit rate from 132k | 105k | 66k.
The higher the rate, the better the sound quality.
If LP in step 4 and 132 or 105 kbps in the bit rate are selected, the mode is set to LP2 (priority on the sound quality).
If LP and 66 kbps are selected, the mode is set to LP4 (priority on the recording time).

6. Click Rec.
Recording to CD and checking out to MD start at the same time. You can see the status on the screen.
The screen closes when finished. A playlist is created and you can manage the recorded songs in the library.
▶ See “Playing a playlist” on P. 19.

BeatJam_E TINSE0553AWZZ
BeatJam_E 14 03.7.21, 8:17 AM

Caution

Free space
Check that the external device has enough free space before transferring data.
You cannot check out if the space is insufficient.

Tip

Sound is heard from the connected device
If an audio device is connected, the play sound may be heard from that device.
You can change the output to PC, except for songs recorded on Net MD compatible devices.

Tip

To set MD recording mode
You can select LP (stereo long time recording) or SP (stereo recording). LP mode has 2 types and is set depending on the bit rate (LP2 and LP4).

Recording mode

- **LP2**
  For better sound quality. The recording time is twice as long as SP. You can play on MDLP compatible players.
- **LP4**
  For longer recording time. The recording time is 4 times of SP. You can play on MDLP compatible players.
- **SP**
  Standard stereo recording.
  You can use MDLP non-compatible players.

◆ Editing CD song order for recording to MD

A playlist is created when recording audio CDs. You can make your own list in the desired order.

◆ Audio CD

Select songs from audio CDs.

1 Enter CD information

▶ See “Entering information” on P. 12.

2 Recording

1. **Select songs from the list and check boxes (☑).**
   Only checked songs (☑) can be recorded.
2. **Click [Rec to] and select [Library].**
3. **Select the bit rate from** 132k 105k 66k**.**
   The higher the rate, the better the sound quality.
4. **Click**

.
   You can see the status on the screen. Click Cancel to stop recording.
5. **Click** Close **when finished.**
   A playlist is created and the recorded songs are controlled in the library.

BeatJam_E TINSE0553AWZZ
BeatJam_E 16 03.7.21, 8:17 AM

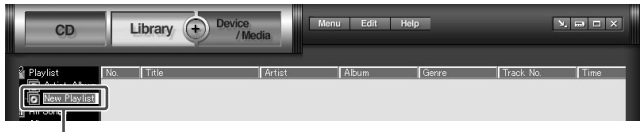
◆Making new playlists

You can also create a playlist of your favourite music.

1 Creating a list

1. Click Library at the top of the main player.
Library panel appears.

2. Click Edit and select [Create new playlist] from the menu.
A playlist is created.



A new playlist is created.

3. Enter a name for the new list.

4. Press the Enter key.

2 Adding songs to a playlist

1. Select the group containing songs to add to the playlist from [All songs] to [Preferred search] in the category list.

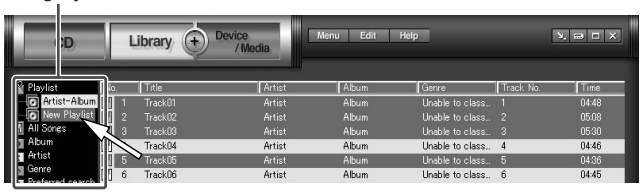
2. Select the desired songs from the list.

Whilst pressing the Ctrl key, click the song to select non-contiguous songs.

Whilst pressing the Shift key, click the song to select consecutive songs.

3. Drag and drop the songs to the new list.

Category list

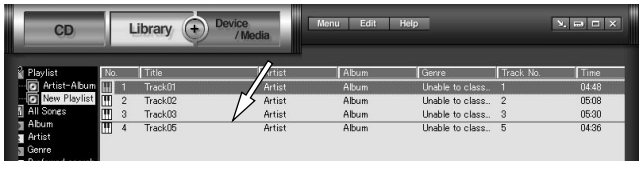


The songs are added to the playlist.
Repeat steps 1 to 3 for other songs.

3 Changing the order of the songs

1. Select the new playlist from the category list.

2. Drag and drop songs to change the order.



Songs are played in numeric order.

BeatJam_E TINSE0553AWZZ
BeatJam_E 18 03.7.21, 8:17 AM

◆Playing a playlist

1. Click **at the top of the main player.**

The library panel appears.

2. Select a list from [Playlist] in the category list.

3. Click **.**

Songs are played in numeric order.

Click to stop play.

Tip

Managing the recorded songs
Songs are sorted by the album title or artist under each folder (album, artist and genre) in the library.
All playlists including the one you created are also controlled in the library.
You can play the desired song by selecting from a playlist, group or library.
Refer to Help for details.

Tip

Audio file formats playable with BeatJam
The formats playable with BeatJam are as follows.
- Audio CDs
- OpenMG files created with BeatJam on your PC
- MP3
- WAVE

Tip

Combining songs
You can combine multiple songs in the same playlist or group.
The combined song can also be divided into two.
Refer to Help for operations.

BeatJam_E TINSE0553AWZZ
BeatJam_E 19 03.7.25, 2:39 PM

◆Transferring/checking out songs to external devices or media

Check out is to transfer songs to OpenMG compatible players.
You can check out recorded songs with BeatJam up to 3 times.

1 Connect the external device to your PC

Refer to the manual of the device for details.

2 Transfer music files to the external device (check out)

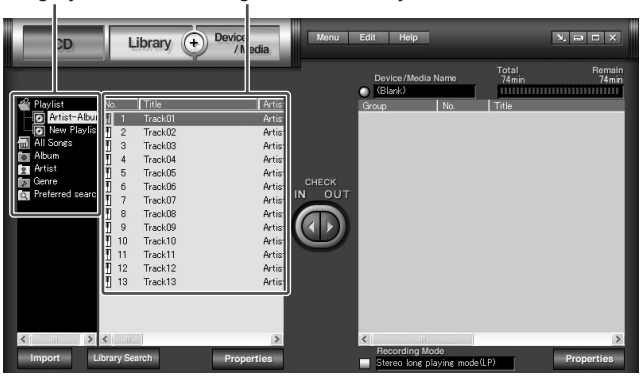
1. Start BeatJam.

▶ See “Launch BeatJam” on P. 11.

2. Click the ⊕ at the top of the main player.

The check in/check out panel appears.

Category list Song list in the library



3. Select the playlist containing the desired songs.

4. Select the songs in the library.

Whilst pressing the Ctrl key, click the song to select non-contiguous songs.
Whilst pressing the Shift key, click the song to select consecutive songs.

5. When checking out to Net MD compatible devices, click ▭ in [Recording Mode] to select the MD recording mode.

▶ See “To set MD recording mode” on P. 15.

6. Click .

You can see the check out status on the screen.
The screen closes when finished. The song is added to the device/media song list.
If the music file is not OpenMG, the message appears to prompt you to change the format.
Click [Yes] to change.

Caution

Connection to external devices
Do not remove the USB cable or media before check out is complete. It may cause data damage or malfunction.

Tip

Marks indicated before song names
Marks stand for the file types.
See below for the meanings.

- ... Check out up to 3 times
- ... Check out up to twice
- ... Check out once
- ... Cannot be checked out
- ... WAVE format
- ... MP3 format
- ...Restriction is added

Tip

Converting to OpenMG
MP3 and WAVE files should be converted to OpenMG before checking out to external devices.
Proceed as follows to change the format.

1. **Click Library at the top of the main player.**
   The library panel appears.
2. **Select a playlist or group including the desired songs.**
3. **Select the songs to convert to OpenMG format.**
   Whilst pressing the Ctrl key, click the song to select non-contiguous songs.
   Whilst pressing the Shift key, click the song to select consecutive songs.
4. **Click Convert to OpenMG Format.**
   The conversion starts and the status screen appears.
   The songs are converted to OpenMG.
5. **Click Close when finished.**

Tip

Creating a group
Songs can be grouped with Net MD compatible devices.
Right click on the device/media song list. Select [Create new group] from the menu.

◆ Returning/checking in songs to your PC

Check in means to return the songs from external devices to the PC.
You can check in songs only to the source PC.

1 Connect the external device to your PC

Refer to the manual of the device for details.

2 Return a music file to your PC

1. Start BeatJam.

▶ See “Launch BeatJam” on P. 11.

2. Click ⊕ at the top of the main player.

The check in/check out panel appears.

3. Select the desired songs from the song list.

Whilst pressing the Ctrl key, click the song to select non-contiguous songs.
Whilst pressing the Shift key, click the song to select consecutive songs.

4. Click ◀.

Check in starts and the status screen appears.
The screen closes when finished.
The song is returned to the library song list.

Caution

Connection to external devices
Do not remove the USB cable or media before check in is complete. It may cause data damage or malfunction.

Reordering the songs in external devices or media

You can change the order of the songs, song names or delete songs recorded on external devices. Change the order as follows.

1 Connect the external device to your PC

Refer to the manual of the device for details.

2 Change the order

1. Start BeatJam.

▶ See “Launch BeatJam” on P. 11.

2. Click Device / Media at the top of the main player.

Song list

3. Select the desired song from the song list.

4. Drag and drop the song to change the order.

Tip

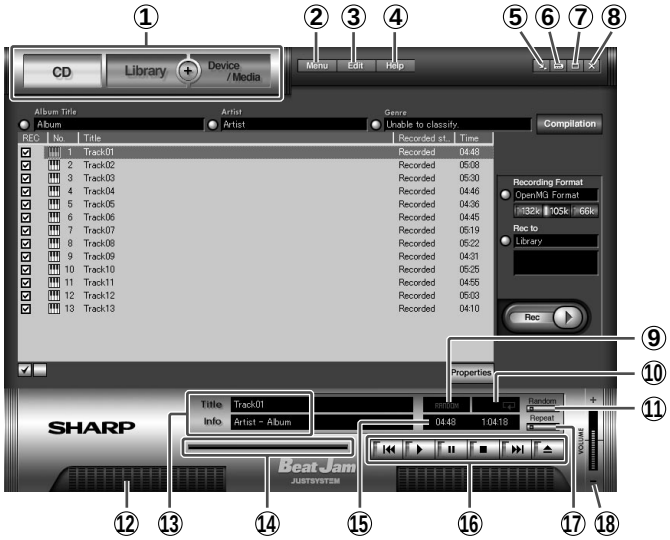
Editing song names
Select the desired song and click the [Title] to enter a new name.

Player screen

◆ Main player

Part names and functions of the main player.
* Screen design may vary depending on the mode, external devices/media.

◆ Main player: elements common to every panel



① Panel Switch Button
Click to switch panel.

- **CD panel** ▶ **P. 26**
  Play and recording of audio CDs
- **Library panel** ▶ **P. 28**
  Playing and managing songs recorded with BeatJam
- **Device/media panel** ▶ **P. 29**
  Displays and edits songs in external devices.
- **Check in/check out panel** ▶ **P. 30**
  Transfer files between a PC and external device.

Click ⊕ to open the panel.

② Menu Button
Displays BeatJam menus.

③ Edit Menu Button
Shows the edit menu for currently displayed panel.

④ Help Button
BeatJam Help appears.

⑤ Tray Button
Put BeatJam in the task tray.
Double click in the task tray to open the player.

⑥ Mini Player Button
Switch to the mini player.

⑦ Maximise Button
The main player appears in full screen.
Click again to return to original size.

⑧ Exit Button
Closes BeatJam.

⑨ Random Indicator
Shows songs are played in random order.

⑩ Repeat Indicator
Indicates songs are repeated.

- SINGLE
  Repeats the song currently played.
- ALL
  All songs in the playlist are repeated.

⑪ Random Button
Sets random play. See [Random Indicator].

⑫ Spectrum Analyser
Shows levels of left and right channels in different frequency bands in stereo.

⑬ Title/Info
Song, artist and album names are displayed for the songs selected or currently played.

⑭ Play Slider
Indicates the portion currently played. Specify the play position by dragging the knob or clicking on the slider.

⑮ Time Display
Shows playing time of the selected or currently played song and the total playing time of songs in a group, on a CD or external device.

⑯ Operation Buttons
Play, pause, stop, return to the previous song and skip to the next.

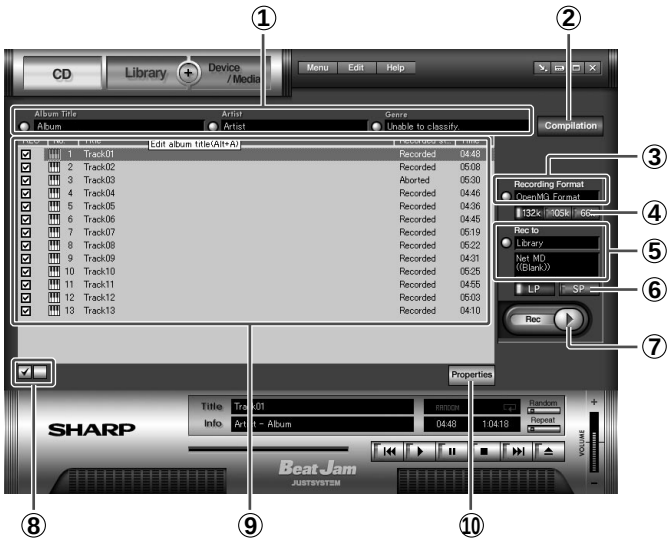
⑰ Repeat Button
Sets repeat play. See [Repeat Indicator].

⑱ Volume Buttons and Indicator
Shows volume level. Click + or - button to adjust.

Tip

To switch from the mini player to the main player
Click MAIN on the mini player.

◆Main player: CD panel



Player screen

① Audio CD (album) information
Album/artist names and genre are displayed.
Click on each information to edit.

② Compilation
You can set the artist name or genre for each song. Use this to edit CDs containing songs by multiple artists or genres.

③ Recording Format
The recording format is displayed. You can change the bit rate using the song bit rate button.

④ Song Bit Rate Button
Select the bit rate to compress audio data.

⑤ Rec to
Recording destination is displayed such as [Library], [Library + Net MD]. Click to select the destination.

⑥ MD Recording Mode Button
▸ P. 15
Switch the mode to transfer songs to an MD. Appears if [Library + Net MD] is selected for [Rec to]. Choose LP for MDLP compatible MD players and SP for non-compatibles.

⑦ Recording Button
Recording starts by clicking and status screen appears.

⑧ Select/Cancel Buttons
You can select all songs for the recording or uncheck songs.

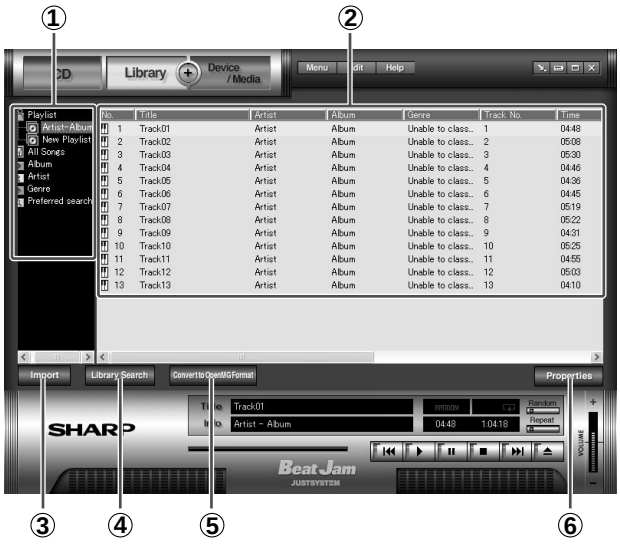
⑨ Song List

The song order on an audio CD, names and playing time of the songs are listed. To display artist names or genres for each song, click Compilation.
You can also edit the above items or select the desired songs.

⑩ Properties

The edit screen for song or artist names is displayed.

◆Main player: Library panel



① Category list
Categories or groups for songs recorded or registered with BeatJam are listed.

- **Playlist**
  All playlists including the ones you created are displayed.
- **All songs**
  All songs managed by BeatJam are displayed.
- **Album**
  Album names managed by BeatJam are displayed.
- **Artist**
  Artist names managed by BeatJam are displayed.
- **Genre**
  Genre names managed by BeatJam are displayed.
- **Preferred search**
  Search criteria you set or used before.

② Song list
Shows the group names and number of the songs in the selected category, the order of the songs and song, artist and album names in the selected group and the remaining check out time. You can also check the restrictions added to the songs (playing period etc.).

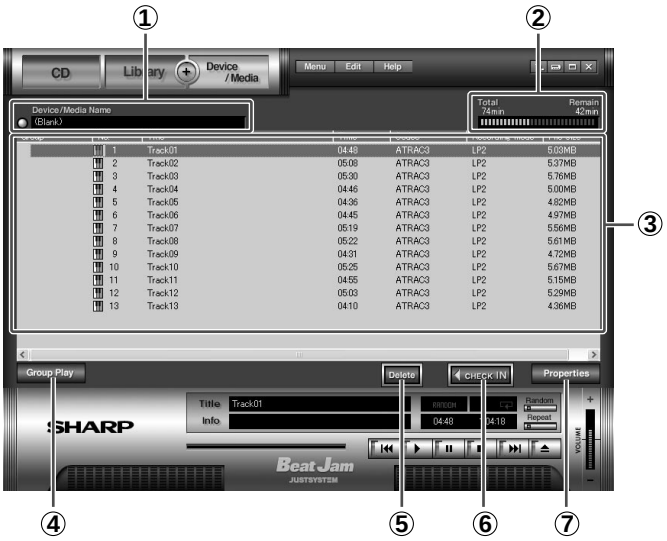
③ Import Button
The music files in the PC are imported to BeatJam.

④ Library Search Button
You can search the music files in the library.

⑤ Convert to OpenMG Format
The format of the selected songs are changed to OpenMG.

⑥ Properties Button
Displays the album names or genres of the selected songs.

◆Main player: Device/media panel



① Device/Media Name
The name of the connected external device appears.
You can change the name from the menu which opens when you click here.

② Available Space
Capacity or free space of the connected device.

③ Song List
Shows the names or the order of songs recorded on your external device.
If groups are found, the names of these groups will also be displayed.
The order of all songs and the order within a group are indicated in [No.] and in brackets separately.
Groups are not displayed if the device is not compatible with Net MD.

④ Group Play Button
Turn on/off the group play. The button does not appear with Net MD non-compatible devices.

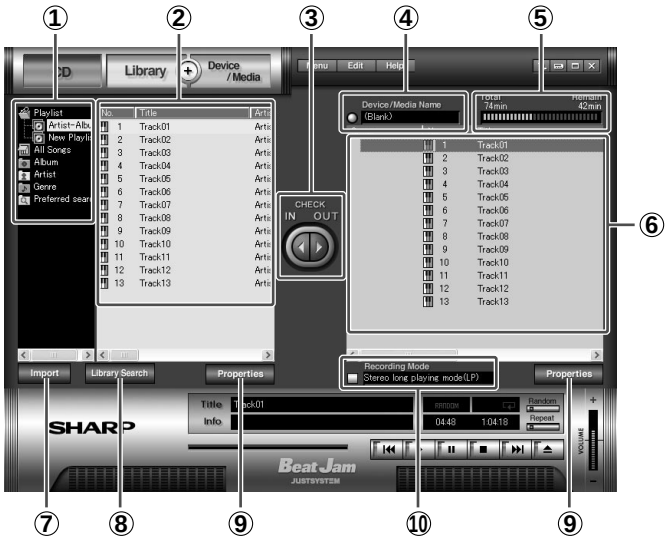
Note:
- Group play is possible with BeatJam even if the connected device does not support group functions.
- To edit groups with BeatJam, press the Edit on the top.

⑤ Delete Button
The selected group or songs are deleted.

⑥ Check In Button
Return songs to the PC.

⑦ Properties
Album or genre name or the song is shown.

◆Main player: Check in/check out panel



① Category list

Categories or groups for songs recorded or registered with BeatJam are listed.

- **Playlist**
  All playlists including the ones you created are displayed.
- **All songs**
  All songs managed by BeatJam are displayed.
- **Album**
  Album names managed by BeatJam are displayed.
- **Artist**
  Artist names managed by BeatJam are displayed.
- **Genre**
  Genre names managed by BeatJam are displayed.
- **Preferred search**
  Search criteria you set or used before.

② Library song list

Shows the group names and number of the songs in the selected category, the order of the songs and song, artist and album names in the selected group and the remaining check out time. You can also check the restrictions added to the songs (playing period etc.).

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③ Check in/check out Buttons
Songs managed by BeatJam can be transferred to external devices or returned to PC.

④ Device/Media Name
The name of the connected external device appears.
You can change the name from the menu which opens when you click here.

⑤ Available space
Free space of the connected device.

⑥ Device/Media song list
Shows the names or the order of songs recorded on your external device.
If groups are found, the names of these groups will also be displayed.
The order of all songs and the order within a group are indicated in [No.] and in brackets separately.
Groups are not displayed if the device is not compatible with Net MD.

⑦ Import Button
The music files in the PC are imported to BeatJam.

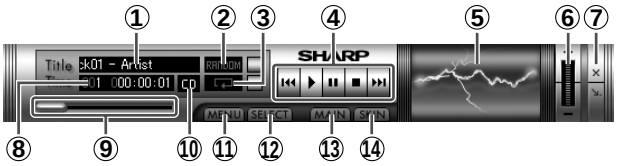
⑧ Library Search Button
You can search the music files in the library.

⑨ Properties Button
Displays the album name or genre of the song selected in the song list or the external device.

⑩ MD Recording Mode Button
▶ P. 15
Click the button on the left to switch the mode. Appears only when connected with Net MD compatible devices.

Mini player

Parts names and functions of the mini player are described.
* The design varies according to the Skin. “charge navy blue” (default) is used in this description.



① Title
Shows the title and artist name of the song.

② Random Indicator
Shows songs are played in random order.

③ Repeat Indicator
Indicates repeat play.
Click to change the mode.

-
  Repeats the song currently played.
-
  All songs in a playlist are repeated.

④ Operation Buttons
Play, pause, stop, return to the previous song and skip to the next.

⑤ Spectrum Analiser
Shows levels of left and right channels in different frequency bands in stereo.

⑥ Volume Buttons and Indicator
Shows volume level. Click + or – button to adjust.

⑦ Exit Button
Closes BeatJam.

⑧ No./Time display
Shows the order of the songs, elapsed and remaining times.
Click the elapsed/remaining time to switch the display.

⑨ Play Slider
Indicates the portion currently played. Specify the play position by dragging the knob or clicking on the slider.

⑩ Select Indicator
Shows play item such as [CD], [LIB] or [DM].
Click to switch the item.

⑪ Menu Button
Displays BeatJam menus.

⑫ Select Button
Select a song or group from the play item in [Select Indicator].

⑬ Main Button
Switches to the main player.

⑭ Skin Button
Opens the skin list to select the mini player design (skin).

Tip

To switch from the main player to the mini player
Click on the main player.

Glossary

This section describes the terms related to BeatJam.
Refer to the glossary in Help for the ones not listed below.

ATRAC3
Audio compression technology developed by Sony Corporation that satisfies both the high sound quality and high compression rates. The compression rate is about 10 times higher than that of the audio CDs, allowing users to reduce file sizes.

Net MD ▶ P. 14
This is an interface standard for connecting MD devices to a PC via USB. Net MD employs copyright protection technologies which enable high speed transfer of encrypted data.

OpenMG ▶ P. 6
This is a copyright protection technology used to create or play music files on PCs.
Using BeatJam, a software compliant with OpenMG, music data is encrypted before storing to a PC and can be played on that PC. OpenMG also prevents unauthorized distribution of data via the Internet.

SDMI
This is a forum consisting of music, computer and other related companies or organizations. The aim is to develop the integrated copyright protection technology for digital music. OpenMG is compliant with SDMI standard.

Check In/Check Out
▶ P. 6, 20, 22, 31
"Check Out" is to transfer music files managed by OpenMG compatible software to an external devices/media. Returning the music files to the PC is called "Check In".
BeatJam allows you to check out a music file recorded from an audio CD three times.
Checked out copies cannot be checked in to other PCs.

Playlist ▶ P. 17, 19
A list of music files. All the songs are played in the order you arranged them.

BeatJam creates a playlist when you record music files from CD.

Library ▶ P. 16, 28
Music files recorded from audio CDs are stored in the Library. Files in a PC can also be moved to the Library. Stored music files are categorised into 4 types (All songs, Album, Artist and Genre). It is very useful to search the desired song.

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