f i d a t a

CD/DVD/BD Drive New Functions

- **About this manual**

  CD/DVD/BD drive functions will be newly added. This manual describes these new functions.

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1. New Functions

- **CD ripping function (Music CD track importing)**

  This function allows you to import music to this product when you insert a music CD (CD-DA format) into the CD/DVD/BD drive connected to the USB port of this product.

  The metadata obtained from "Gracenote$^®$" is assigned to the music to be imported.

  This system is compatible with "AccurateRip", enabling highly accurate importing performance.

    * Gracenote：

      This is a service that supplies an information database related to music CDs.

    * AccurateRip：

      This is a function that judges whether tracks on a music CD are imported normally, collating with another person's importing result.

- **CD transport function (Distributing tracks on a music CD)**

  This function allows you to distribute music when you insert a music CD (CD-DA format) into the CD/DVD/BD drive connected to the USB port of this product.

  Tracks on a music CD are handled as if they were registered on this product as a wav file, so you can play them through a network audio player or USB-DAC.

  The metadata obtained from "Gracenote" is assigned to tracks, so you can view their details.

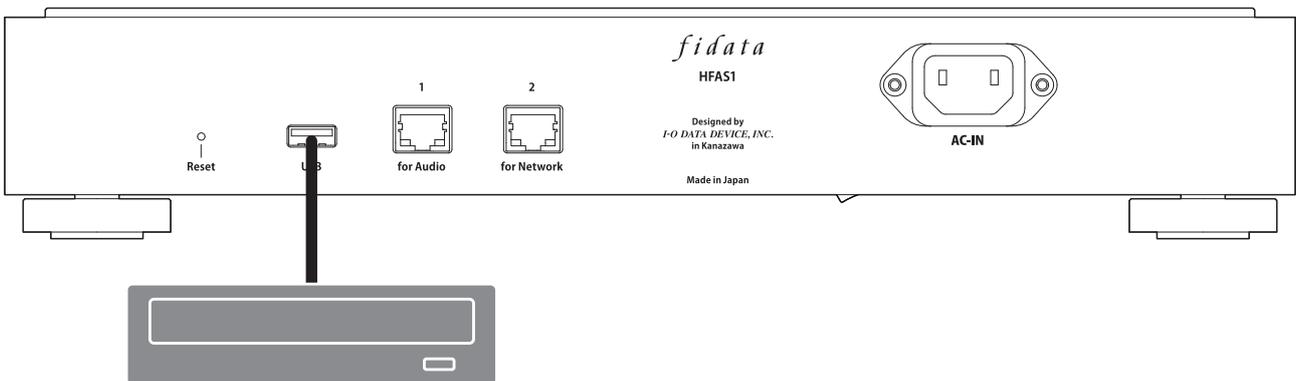- **Data BD/DVD importing function**

  This function allows you to import music when you insert a data BD/DVD into the CD/DVD/BD drive connected to the USB port of this product. You can copy a music file in the BD/DVD in the same way as when copying a music file in the USB HDD.

    * You cannot import music in the copyrighted DVD or BD.

2. Connecting the CD/DVD/BD Drive

To use new functions, you need to connect the CD/DVD/BD drive to the USB port in the rear side of this product.

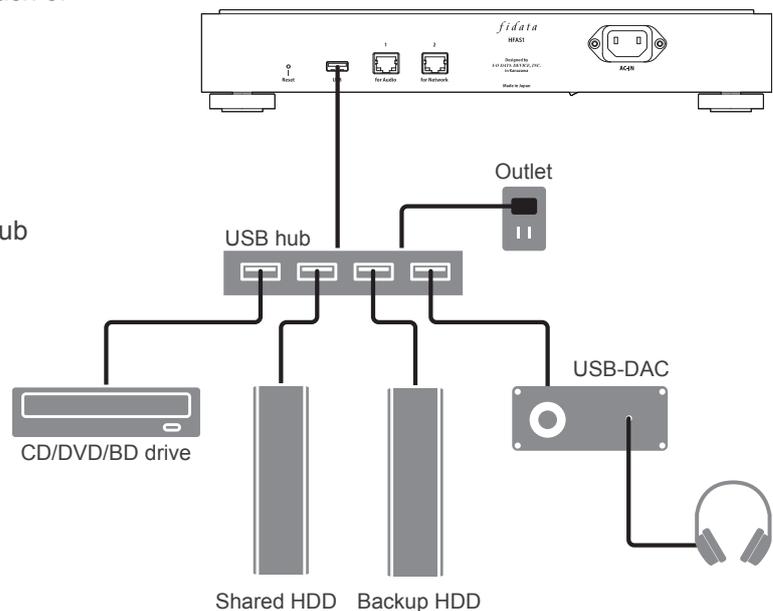## 2.1. Connecting the CD/DVD/BD drive

> **Connecting the USB hub.**
>
> Connect the USB hub to the USB port in the rear side of this product.
> Connect the CD/DVD/BD drive to the USB hub.
> Using the USB hub, you can connect each of the following devices to this product.
>   • Shared HDD
>   • Backup HDD
>   • USB-DAC
>   • CD/DVD/BD drive
> * We recommend that you use a USB hub to be connected to an outlet.

2.2. Removing the CD/DVD/BD drive

If this product is turned on, press the CD/DVD/BD drive eject button to eject any music CD or other discs before removing the CD/DVD/BD drive.

If this product is turned off, remove the CD/DVD/BD drive at any time.

Ejecting a music CD using the POWER button.

Click the POWER button twice quickly.

* This function is only available when [Ripping Operations] is set to [Manual] in [USB CD/DVD/BD DRIVE SETTINGS] on the SET screen.

Ejecting a music CD from the SET screen.

Select [Removal of the USB device] in [USB DEVICE SETTINGS] on the SET screen.

3. Importing Tracks on a Music CD

Import tracks on a music CD to this product.

> **Music CD**
> You can import tracks on a music CD in CD-DA format.

> **Music format for importing**
> Music is saved in wav format by default; however, it can be saved in FLAC format if the setting is changed. To specify the format, select [ENCODE] - [Data Format] in [USB CD/DVD/BD DRIVE SETTINGS] on the SET screen of this product. See page 12 for details.

1 Insert a music CD into the CD/DVD/BD drive connected to this product.

  * The indicator lamp in the front keeps flashing until the music CD is recognized by the CD/DVD/BD drive. Please wait for several seconds.

2 Press the POWER button of this product.

  => This starts importing tracks on a music CD. The indicator lamp keeps flashing during the import process.
  Please wait a moment.

> **Standard importing time**
>
> | | Time required to import tracks on a music CD of 70 minutes 5 seconds [1] | |
> | --- | --- | --- |
> | | Condition 1 [2] | Condition 2 [3] |
> | Drive A | 8 minutes 10 seconds | 19 minutes 24 seconds |
> | Drive B | 13 minutes 23 seconds | 24 minutes 38 seconds |
>
> *1 The time values above are just standards. The importing time varies depending on the drive or media you are using.
> *2 AccurateRip: On, Retry Process: On, Read Speed: High Speed, ENCODE: WAV
> *3 AccurateRip: On, Retry Process: On, Read Speed: High Speed, ENCODE: FLAC, Compression: Normal

> **[Ripping Operations] setting**
> To automatically start import processing, select [CD/DVD/BD DRIVE CONTROLL] - [Ripping Operations] in [USB CD/DVD/BD DRIVE SETTINGS] on the SET screen of this product. See page 12 for details.

3 When the tray of the CD/DVD/BD drive is opened and the music CD is ejected, the importing of tracks on the music CD is completed.

The music CD has been ejected immediately, or the indicator lamp in the front has lit up red or yellow.

• **The music CD is ejected immediately, and the indicator lamp in the front is lit up red.**

  Either of the following are possible causes.

  - The target music information is not found by Gracenote, and the system stopped importing tracks on the music CD.

    Check that this product is connected to the Internet.

    If it is connected to the Internet, it is assumed there is no music information for the music CD. If you want to import the music CD, select [GRACENOTE] in [USB CD/DVD/BD DRIVE SETTINGS] on the SET screen of this product, and set [Unregistered music] to [Retrieve]. See page 12 for details.

  - There is insufficient internal disk space in this product.

    Free space of 3.5GB or more is required to import tracks on a music CD.

    Delete unnecessary files, and retry importing.

• **When the music CD has been ejected, the indicator lamp in the front is lit up red.**

  Either of the following are possible causes.

  - Some tracks were not imported due to dirt or damage on the music CD.

    Check the reading side of the music CD.

    Also, check the tracks that were not imported.

  - You have ejected media or removed the CD/DVD/BD drive during import processing.

    Import processing was interrupted, so the indicator lamp lights up red.

• **When the music CD has been ejected, the indicator lamp in the front is lit up yellow.**

  Either of the following are possible causes.

  - The target music information was not found by Gracenote, but the music CD was imported.

  - Check that meta information is assigned to the imported tracks.

  - If you want to import the tracks from the music CD only when the target music information is found, select [GRACENOTE] in [USB CD/DVD/BD DRIVE SETTINGS] on the SET screen of this product, and set [Unregistered music] to [Retrieve None] (default). See page 12 for details.

  - The AccurateRip result did not match the results of others, but the music CD was imported.

    Check that you can play the imported tracks normally.

Storage location of imported tracks.

The imported tracks are stored in the following location of this product.

  contents > CD Library > [Artist name] > [Album title]

Each track is stored with a title following the serial number. (Example: 01 [Track name].wav)

Also, the artwork data file, "Folder.jpg", is stored in the same location.

* Used to supply music information in Folder.jpg format. You cannot open or copy this file using a computer, etc.

  However, this file can be moved or deleted in fidata, so you can change to the desired configuration.

* If the target music does not have any artwork data supplied by Gracenote, the Folder.jpg file is not stored.

4. Distributing Tracks on a Music CD

You can insert a music CD into the drive and distribute tracks on the music CD as if they were imported.

> **Music CD**
> You can distribute a music CD in CD-DA format.

> **Only one device is available to play tracks on a music CD.**
> This system does not support simultaneous play through multiple players.

1 Insert a music CD into the CD/DVD/BD drive connected to this product.

    * The indicator lamp in the front keeps flashing until the music CD is recognized by the CD/DVD/BD drive. Please wait for several seconds.

2 Playing the wav file in this product.

    Play the wav file as usual using the network audio player or USB-DAC.

> **Viewing tracks in music CD**
> Tracks on a music CD are displayed in the following location on DLNA.
>   Music > Folder > #CD: [Album title]
> Each track is displayed with a title following the serial number. (Example: 01 [Track name].wav)
> * Tracks are also displayed under [Album] or [Artist] depending on the imported music information in the same way as for normal tracks.

5. Storing the Music File from the Data DVD/BD

You can insert the data DVD/BD containing the music file into the drive and copy tracks to this product.

Data to be stored.

• All the data in the data DVD/BD is stored in this product, including data other than music.

• Data is stored in the "Import" folder of this product.

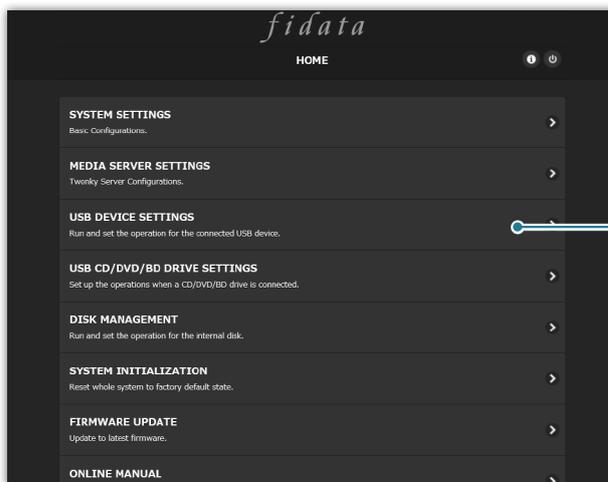• If data of the same name is included in the "Import" folder of this product, it is overwritten.

1 Insert the data DVD/BD into the CD/DVD/BD drive connected to this product.

   * The indicator lamp in the front keeps flashing until the data DVD/BD is recognized by the CD/DVD/BD drive. Please wait for several seconds.
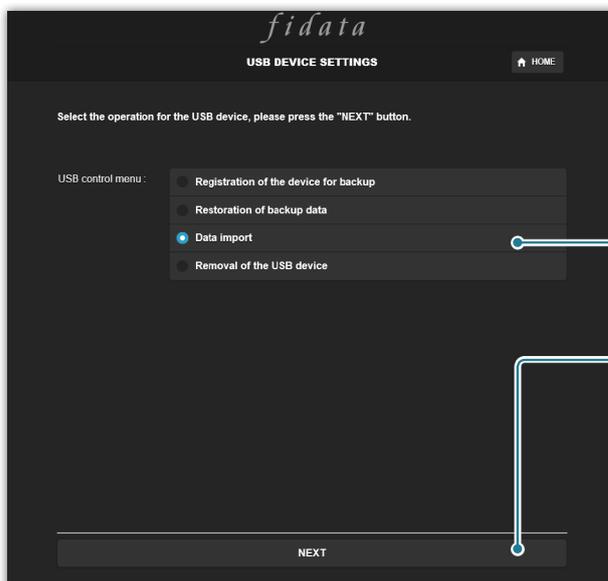
2 Open the SET screen.

   See the Setup Guide for details about how to open the settings screen.
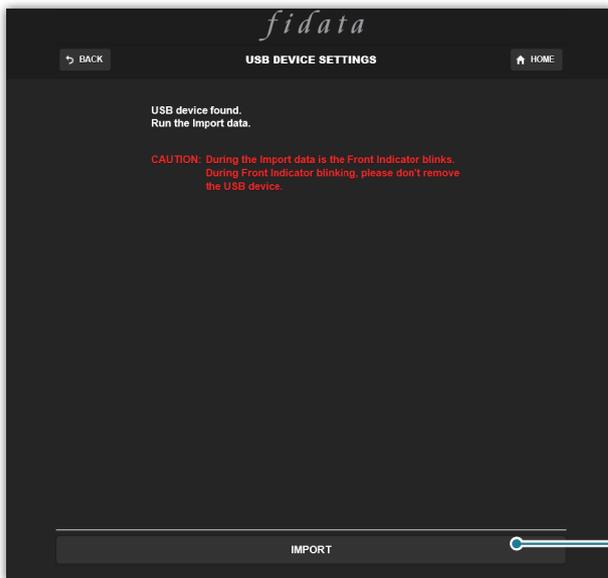
3

   Click [USB DEVICE SETTINGS].

4

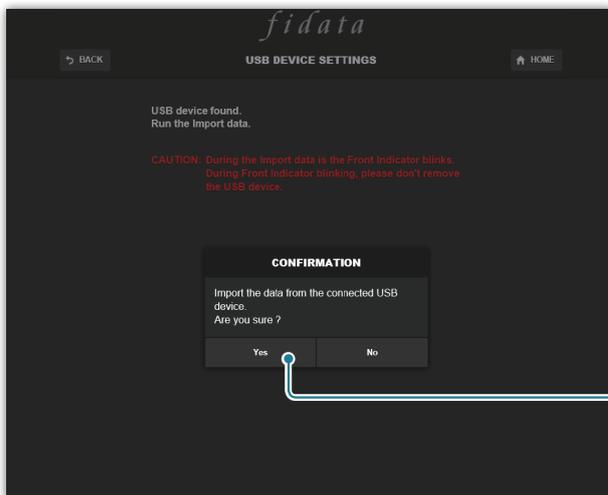   Click [Data import].

   Click [NEXT].

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When multiple USB devices are connected:

Music is preferentially imported (copied) from the data DVD/BD.
Remove non-target USB devices, then click [IMPORT].

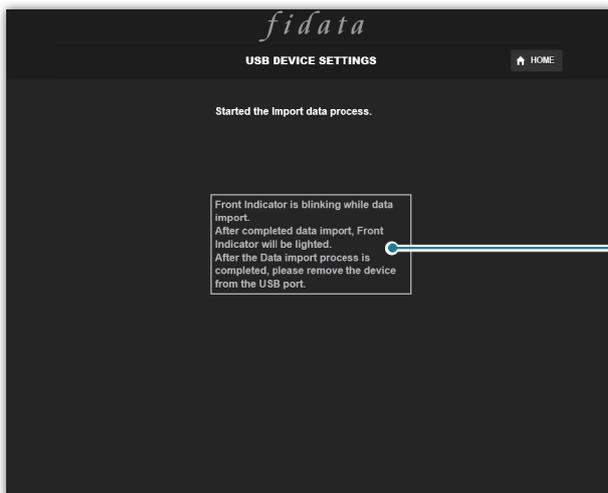Click [IMPORT].

6

Caution: Do not eject the data DVD/BD.

If you click [Yes], track copy starts, and the indicator lamp in the front flashes. Do not eject the data DVD/BD or remove the CD/DVD/BD drive while the lamp is flashing.

Click [Yes].

↓

The indicator lamp in the front flashes.

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Check that the indicator lamp in the front has lit up.
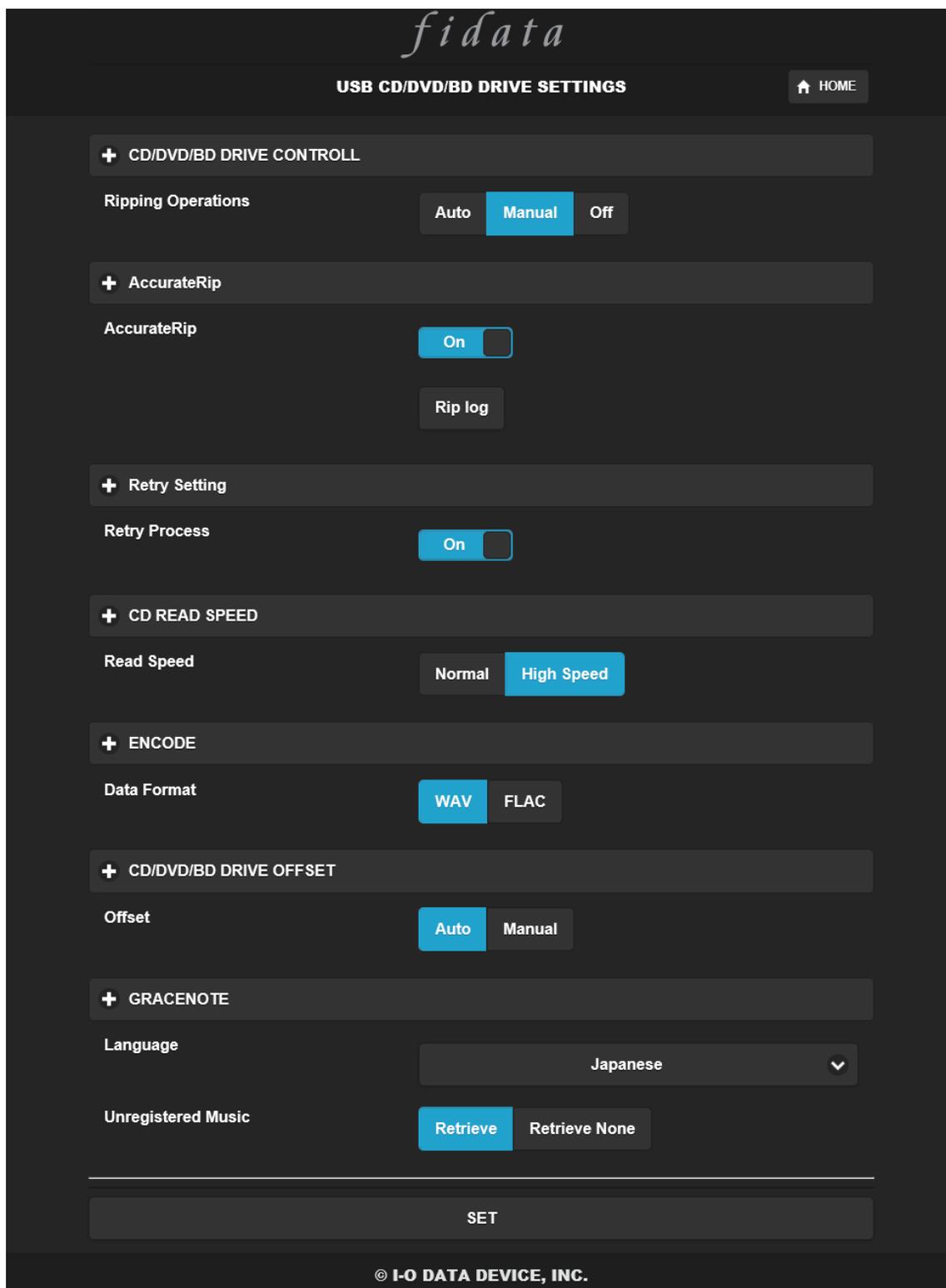
↓

This procedure is completed.

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6. Details of added items

This section describes the added items with new functions provided.

6.1. USB CD/DVD/BD DRIVE SETTINGS

This item is added to the HOME page on the settings screen.
Here, you can set functions using the CD/DVD/BD drive.

CD/DVD/BD DRIVE CONTROLL	Specify a method to start importing tracks on a music CD.
Ripping Operations	Auto : Automatically starts importing when you insert a music CD into the drive. Manual: Starts importing when you insert a music CD into the drive and press the POWER button. Off: Does not import tracks on a music CD. * When [Auto] is selected, the CD transport function is not available. (This is because importing starts.) * When [Manual] is selected, you cannot perform USB-DAC play operations using the POWER button while a music CD or data DVD/BD is in the CD/DVD/BD drive connected to this product.
AccurateRip	Configure the AccurateRip setting.
AccurateRip	Specify whether to enable or disable AccurateRip. Set to [On] normally.
Rip log	Displays the verification results of the past three rips. See [Details of rip log] in the following page.
Retry Setting	Set the retry process to re-read data when an error occurs during reading.
Retry Process	Specify whether to enable or disable the retry process. Set to [On] normally.
CD READ SPEED	Specify the speed to read a music CD.
Read Speed	Normal: Reads a music CD at the slowest speed of the CD/DVD/BD drive. High Speed: Reads a music CD at the maximum speed of the CD/DVD/BD drive.
ENCODE	Configure settings for the imported music data.
Data Format	Select the music format from [WAV] and [FLAC].
FLAC compression level	This item is available when [FLAC] is selected in [Data Format]. You can specify the compression level in FLAC format.
CD/DVD/BD DRIVE OFFSET	Specify the offset value depending on the characteristics of the CD/DVD/BD drive.
Offset	Auto: Obtains the offset value from the online database. Manual: Manually enter the offset value.
Offset value	This item is available when [Manual] is selected in [Offset]. Manually enter the offset value.
GRACENOTE	Specify how to use the Gracenote-supplied information database for music CD.
Language	Specify the language of the music information you want to import.
Unregistered music	Retrieve None: Stops importing tracks on a music CD when there is no music information. This prevents a music CD from being imported with no music information assigned. Retrieve: Imports a music CD without assigning meta information when there is no music information.

Details of rip log

The rip log is displayed as shown below.

　　　#Track No.　　Album name　　Result　CRC value (confidence value)

Example: When the verification of the second track in the album, "Album Name", succeeds with
　　　　　AccurateRip, the rip log is displayed as shown below.
　　　　　　　#02 Album Name OK 7f08bf02(123)

• Result

　　　　　　　OK: Imports data with the matched contents when the AccurateRip result matches
　　　　　　　　　another person's result (CRC value).

　NOT ACCURATE: Retries verification up to three times when the AccurateRip result does not match
　　　　　　　　　another person's result.
　　　　　　　　　When the same result is obtained for all, its data is imported.

　　　　ABORT: Does not import data when the system stopped the import process because it failed
　　　　　　　　to read data due to damage or dirt on the disc surface.

　　　　　SKIP: Imports the current data when the collation with AccurateRip failed because this
　　　　　　　　product is not connected to the Internet or for other reasons.

• CRC value: Used to collate the importing result. AccurateRip collates this value for importing.
• Confidence value: When the results match, the another person's matching count is displayed. As the
　　　　　　　　confidence value is greater, the reliability is higher.

6.2. SYSTEM INFORMATION

The following three items are added.

Internet :	Connected

USB CD/DVD/BD drive :	PIONEER - BD-RW BDR-209MIO
AccurateRip:	-----

Internet	Connected: This product is currently connected to the Internet.
	Unconnected: The connection with the Internet could not be confirmed.
USB CD/DVD/BD drive	Displays the name of the CD/DVD/BD drive connected to the USB port in the rear side.
AccurateRip	Displays the AccurateRip support status of the connected CD/DVD/BD drive.