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NWZ-E453/E454/E455

User Guide

Use this manual if you encounter any problems, or have any questions about the player.

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Before first use

Thank you for purchasing this "WALKMAN."

This User Guide explains how to transfer music, videos, photos and podcasts to the player and how to use various functions of it. Browse this User Guide for necessary information.
Before you start using the player, be sure to read "Important Information" that contains important information on the use of the player. To read it, click "Important Information" in the side bar on the left of the browser window.
Also, "Quick Start Guide" supplied with the player contains important information for you.
For information about the customer support Web site, see [Details].

About model names mentioned in this User Guide

Depending on the country/region in which you have purchased the player, some models may not be available.

About Windows operating system and Windows Media Player

Make sure that the operating system is Windows XP (Service Pack 3 or later), Windows Vista (Service Pack 1 or later) or Windows 7 (*1), and the installed Windows Media Player version on your computer is 11 (Windows XP/Windows Vista) or 12 (Windows 7).
For details about usage or support on Windows Media Player, refer to Windows Media Player information from the following web site:
http://support.microsoft.com/
(*1) [Compatibility mode] for Windows XP is not supported.

About battery charging

The battery might not be charged at time of purchase. See [Details] for how to charge the battery.

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How to use this User Guide

▼ Selecting a topic to display
▼ Returning to a previous page
▼ Printing out a page

This User Guide explains how to use each function of the player, how to change settings, and how to troubleshoot a problem.

Selecting a topic to display

Internet Explorer 7 is used for illustration purposes.

1. Click a title (1) in the side bar on the left of the browser window.
   The title's topic list appears in the right pane.

2. Click a topic title (2) in the list.

Descriptions appear in the right pane.
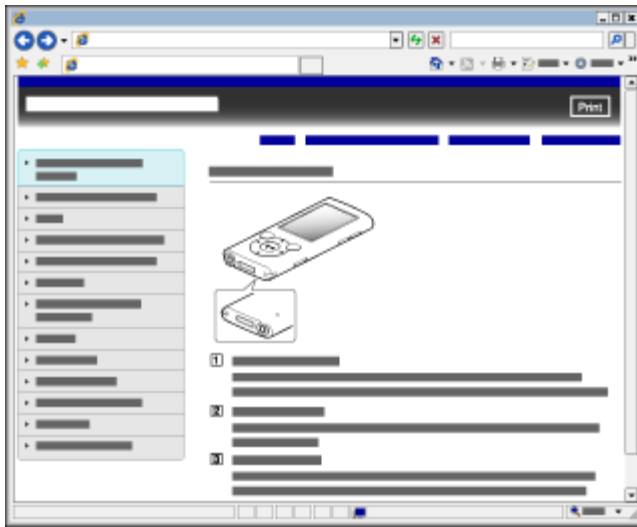
Changing the font size

You can change the font size by changing the setting of your web browser. For how to change the font size setting, refer to the Help of your web browser.

Returning to a previous page

Use the back button of your web browser (1) or breadcrumb trail navigation (2) to return to a page you previously viewed.

Printing out a page

Click the print button (1) to print out a page you are viewing.

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What you can do with "WALKMAN"

▼ Enjoying music, videos, photos and podcasts transferred from a computer
▼ Enjoying "SensMe™ Channels"

Your "WALKMAN" incorporates various functions. This page introduces some of its major features to you.
You need to transfer music, videos, photos or podcasts from a computer to your "WALKMAN" to enjoy them.

Enjoying music, videos, photos and podcasts transferred from a computer

To enjoy music, videos, photos or podcasts, use bundled software (Content Transfer) or supported software (Windows Media Player) to transfer them from a computer to the player. For how to install the bundled software, refer to "Quick Start Guide."

♫ Music

There are several ways to transfer music to the player. See [Details] for how to transfer your favorite songs to the player. After transferring, see [Details] for how to play them back.

Videos/ Photos/ Podcasts

There are several ways to transfer videos, photos or podcasts to the player. See [Details] for how to transfer them to the player. After transferring, see [Details] for how to watch videos, [Details] for how to view photos, or [Details] for how to play back podcasts.

Enjoying "SensMe™ Channels"

Playing "SensMe™ Channels"

"SensMe™ Channels" automatically picks up songs to fit the themes of channels. You can play songs according to your mood, activity, time of the day, and so on. See [Details] for how to use "SensMe™ Channels."

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Operation flow to enjoy music

You need to have music files on your computer before transferring them to the player and playing back. There are various ways to obtain music files, such as importing from CDs, purchasing at online music stores, downloading from the Internet, and so on.
Be careful that the player can play back music files in supported formats only. Also, copyright protected music files may not be playable depending on their copyright protection. For details about supported file formats, see [Details].
Once you have music files on your computer, you are ready to transfer them to the player. You can transfer music to the player in the following three ways.

Transferring music from CDs using Windows Media Player

You can import music from your CDs, etc., to your computer, and transfer them to the player using Windows Media Player.

For how to use Windows Media Player, see the following topics.
- Windows Media Player [Details]
- Importing music from CDs using Windows Media Player [Details]
- Transferring music using Windows Media Player [Details]

Transferring music from iTunes, etc., using Content Transfer

If you have already managed music with iTunes, etc., you can transfer them to the player using Content Transfer.

For how to use Content Transfer, see the following topics.
- Content Transfer [Details]
- Transferring music using Content Transfer [Details]

Transferring music by drag-and-drop using Windows Explorer

You can directly transfer music stored on your computer by drag-and-drop using Windows Explorer.

For how to use Windows Explorer, see the following topic.
-

- Transferring music using Windows Explorer [Details]

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Operation flow to enjoy videos, photos and podcasts

You need to have video/photo/podcast episode files on your computer before transferring them to the player and playing back.
You can import videos from recorded videos or download from the Internet, etc. You can import photos from a digital camera or download from the Internet, etc. You can download podcast episodes from the Internet.
Be careful that the player can play back files in supported formats only. Also, copyright protected files may not be playable depending on their copyright protection. For details about supported file formats, see [Details].
Once you have video/photo/podcast episode files on your computer, you are ready to transfer them to the player. You can transfer video/photo/podcast episode files to the player in the following three ways.

Transferring videos/photos/podcasts using Content Transfer

You can transfer videos/photos/podcasts stored on your computer to the player using Content Transfer.
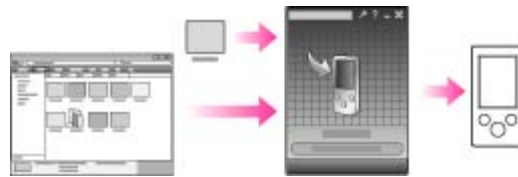
For how to use Content Transfer, see the following topics.
- Content Transfer [Details]
- Transferring videos/photos/podcasts using Content Transfer [Details]

Transferring videos/photos/podcasts by drag-and-drop using Windows Explorer

You can directly transfer videos/photos/podcasts stored on your computer by drag-and-drop using Windows Explorer.

For how to use Windows Explorer, see the following topic.
- Transferring videos/photos/podcasts using Windows Explorer [Details]

Transferring videos/photos using Windows Media Player

You can transfer videos/photos managed with Windows Media Player to the player.
For details about usage or support on Windows Media Player, refer to Windows Media Player information from the following web site:
http://support.microsoft.com/
Also, see the following topic.
- Windows Media Player [Details]

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Hint

- For detailed information on how to import videos/photos/podcasts, refer to the Help of each software.
- For details about supported file formats, see [Details].

Note

- Commercial DVDs and Blu-ray Discs are copyright protected and cannot be transferred to the player.

Hint

- For detailed information on how to import videos/photos/podcasts, refer to the Help of each software.

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Turning the player on and off

▼ To turn on the player
▼ To turn off the player
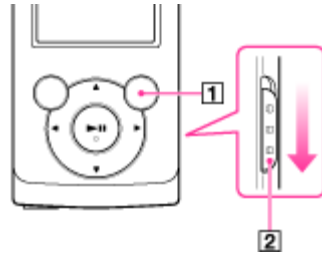
1 OPTION/PWR OFF button
2 HOLD switch

If HOLD appears on the top of the screen, slide the HOLD switch in the opposite direction of the arrow ➡ on the right side of the player to cancel the HOLD function.

To turn on the player

Press any button to turn the player on.

To turn off the player

Press and hold the OPTION/PWR OFF button [Details]. [POWER OFF] appears, the player enters standby mode, and the screen turns off.

Hint
- Set the date and time on the player before using it [Details].
- During pause, if there is no operation for about 10 minutes, the player automatically enters standby mode, and the screen turns off. In standby mode, press any button to turn on the screen again.
- While the player is in standby mode, if there is no operation for about a day, the player completely turns off automatically.

Note
- You cannot operate the player when it is connected to a computer. Disconnect the USB cable before operating the player.
- After connecting to a computer with the USB cable, the resume information of the last played song, video, photo, etc., is cleared. Reselect the desired content from the list screen.
- The player consumes battery power very slightly even when it is in standby mode. Therefore, the player might unexpectedly turn off completely, depending on the power remaining in the battery.

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Charging the battery

▼ About the [Battery Care] mode
▼ About the battery indicator

The player's battery is recharged while the player is connected to a running computer.
When you connect the player to your computer, use the USB cable (supplied).
When the remaining battery indication in the upper right corner of the display shows [Full],
charging is completed. (Charging time is approx. 3 hours.)
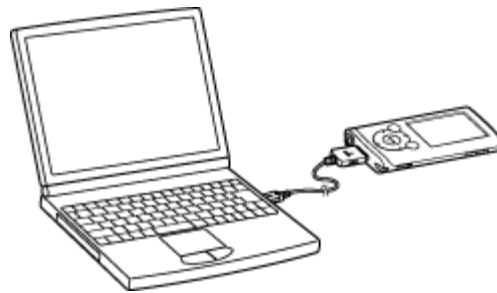
When you use the player for the first time, or if you have not used the player for a long time,
recharge it fully (to [Full] in the remaining battery indication of the display).

Note
- After fully charging, the player will automatically enter standby mode.

About the [Battery Care] mode

In the [Battery Care] mode, the player stops recharging a short time before the battery is fully
charged. When extended use over many hours is not required, you can set [Battery Care] to [On]
to increase the available number of cycles of charge and discharge, which can significantly
extend battery lifespan.
For how to set the [Battery Care] mode, see [Details].

Note
- In the [Battery Care] mode, the first bar of the battery indicator will disappear somewhat
  quicker than normal. This is a result of stopping recharging the battery before becoming fully
  charged (in order to extend the battery lifespan) and is not a malfunction.

About the battery indicator

The battery indicator in the information area shows the remaining battery charge.

As the battery power gets lower, the bars of the icon disappear. If [LOW BATTERY. Please
Charge.] appears, you cannot use the player. In this case, charge the battery by connecting to
your computer. See [Details] on battery duration.

Hint

- The screen dims while charging.

Note

- If you charge the player when it has not been used for a long period, your computer may not recognize the player, or nothing may appear on the display. Charge the player for about 5 minutes, after which it should start operating normally again.
- Charge the battery in an ambient temperature of between 5 ℃ to 35 ℃ (41 ℉ to 95 ℉). If you try to charge the battery in an ambient temperature outside this range, the ▆▆ icon may appear, and charging cannot be performed.
- The number of times the battery can be recharged before it is used up is approximately 500 times. This number may vary, depending on the conditions under which you use the player.
- [Do not disconnect.] appears in the display while the computer accesses the player. During this time, do not disconnect the USB cable (supplied); otherwise, data being transferred (or data already in the player) may be damaged.
- The control buttons on the player become inoperative while it is connected to a computer.
- To prevent battery deterioration, charge the battery at least once every half a year or every year.
- Some USB devices connected to the computer may interfere with proper operation of the player.
- We do not guarantee battery recharging using a personally assembled/modified computer.
- If the computer enters a power saving mode, such as the Sleep or Hibernation mode, while the player is connected via the USB cable, the player's battery will not be charged. Instead, the player continues to draw power from the battery, discharging it.
- Do not leave the player connected for extended periods to a laptop computer that is not connected to AC power, since the player may discharge the computer's battery.
- While the player is connected to a computer, do not turn on, restart, wake up from sleep mode, or shut down the computer. These operations may cause the player to malfunction. Disconnect the player from the computer before performing these operations.
- Heat may build up in the player while charging. This is not a malfunction.
- After connecting to a computer with the USB cable, the resume information of the last played song, video, photo, etc., is cleared. Reselect the desired content from the list screen.

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About battery life

▼ Turn off the player manually
▼ Longer battery life settings
▼ Adjust data format and bit rate

By adjusting the settings or managing the power supply properly, it is possible to save battery power for longer usage time between charges.
The following hints will yield a longer battery life.

Turn off the player manually

If you press and hold the OPTION/PWR OFF button, the player enters standby mode and the screen turns off to save battery power. Furthermore, if standby mode continues for more than about a day, the player turns completely off automatically.

Longer battery life settings

The following settings are effective for extending the battery life of the player.
- Set as below to turn off the screen as frequently as possible during music playback.
    - Set [On/Off] to [On] and [Delay] to [15 Sec] (the shortest waiting time).
    - Set [Display Lyrics] to other than [On (No Screen Off)].
    - Set [Karaoke/Language Study] to other than [Maximum Karaoke Mode] or [Minimum Karaoke Mode].
- Reduce the [Brightness] setting value.
- Set [Equalizer], [VPT(Surround)], [DSEE(Sound Enhance)], [Clear Stereo], [Dynamic Normalizer] and [DPC (Speed Control)] to [None] or [Off].
See [Details] for details on the effect of setting changes, default settings, and battery life measurement conditions.

Adjust data format and bit rate

Playing time will vary, as battery charge can be affected by the format and bit rate of songs, videos or photos that are played.
For details on charging time and usage time, see [Details].

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Charging time

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Selecting the display language [Language Settings]

You can select from a variety of languages for menus and messages.

1. From the Home menu, select ▦ [Settings] ➜ [Language Settings] ➜ desired language setting.

Language	Messages and menus are displayed in
[Deutsch]	German
[English]	English
[Español]	Spanish
[Français]	French
[Italiano]	Italian
[Polski]	Polish
[Português]	Portuguese
[Русский]	Russian
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Setting the current time [Set Date-Time]

You can set the date and time.

1. From the Home menu, select ▩ [Settings] ➜ [Common Settings] ➜ [Clock Settings] ➜ [Set Date-Time].

2. Press the ◀ / ▶ button to select the year, and then press the ▲ / ▼ button to change the value.

3. As in step **2**, adjust the settings for month, date, hour, and minutes, and then press the ▶Ⅱ button to confirm.

Hint
- You can select the date format from [YYYY/MM/DD], [MM/DD/YYYY], or [DD/MM/YYYY] [Details]. Furthermore, you can select the time format from either [12-hour] or [24-hour] [Details].

Note
- If battery power is used up because, for example, the player has not been used for a long time, your settings for date and time may be lost, and "-" will be displayed instead of the current date and time.
- The clock may gain or lose up to 60 seconds per month. In this case, set the clock again.

Related Topics

How to use the Home menu

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Parts and controls

☐1 **BACK/HOME button** [Details]

Press to go up one list screen level, or to return to the previous menu.

Press and hold the BACK/HOME button to display the Home menu.

☐2 **5-way button (*1)** [Details]

Press to start playback or navigate through the player's on-screen menus.

 (*1) There is a tactile dot. Use it to help with button operations.

☐3 **Headphone jack**

Insert the headphone plug until it clicks into place. If the headphones are connected improperly, the sound from the headphones will be impaired.

☐4 **WM-PORT jack**

Connect the USB cable (supplied), or peripheral devices (not supplied).

☐5 **Display**

☐6 **VOL + (*1)/– button**

Press to adjust the volume.

 (*1) There is a tactile dot. Use it to help with button operations.

☐7 **OPTION/PWR OFF button** [Details]

Press to display the option menu.

If you press and hold the OPTION/PWR OFF button, the screen turns off and the player enters standby mode [Details].

☐8 **HOLD switch**

You can protect the player against accidental operation during transportation by setting the HOLD switch. By sliding the HOLD switch in the direction of the arrow ➤ , all operation buttons are disabled. If you slide the HOLD switch in the opposite position, the HOLD function is released.

☐9 **Strap hole**

This is used to attach a strap (not supplied).

☐10 **Microphone** [Details]

Use to make voice recordings.

☐11 **RESET button** [Details]

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Press the RESET button with a small pin, etc., to reset the player.

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About the software

▼ Bundled software
▼ Compatible software

You can use several software shown below to manage music, videos, photos and podcasts on your computer or transfer them to the player.

Bundled software

Content Transfer

Content Transfer can transfer music, videos or photos from a computer to the player by a simple drag-and-drop operation. You can use Windows Explorer or iTunes, etc., to drag-and-drop data to Content Transfer. Content Transfer can also convert a video file of a format not supported by the player into a playable format. For details on operation, refer to the Help of the software.
Transferable files: Music (MP3, WMA, AAC, WAV), Photo (JPEG), Video (MPEG-4 Simple Profile, AVC (H.264/AVC) Baseline Profile, WMV (*1))

(*1) Some WMV files cannot be played back after being transferred by Content Transfer. If you retransfer them using Windows Media Player, they may become playable.

> **Hint**
> - ATRAC files managed by SonicStage can be transferred to the player after conversion to MP3 file format.

WALKMAN Guide

The User Guide (this manual) and a useful list of links are available to you.

Compatible software

Windows Media Player

Windows Media Player can import audio data from CDs and transfer data to the player.
Transferable files: Music (MP3, WMA), Video (WMV), Photo (JPEG)
For details on operation, refer to the Help of the software, or visit the following website.
http://support.microsoft.com/

Media Go

If you are using Media Go with your PSP® (PlayStation® Portable) or Sony Ericsson mobile phone, you can transfer data from Media Go to the player if you have updated Media Go to the latest version (version 1.5 or later).

Related Topics
Importing music from CDs using Windows Media Player
Transferring music using Windows Media Player
Transferring music using Content Transfer
Transferring videos/photos/podcasts using Content Transfer

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About the Home menu

The following list shows the items of the Home menu.
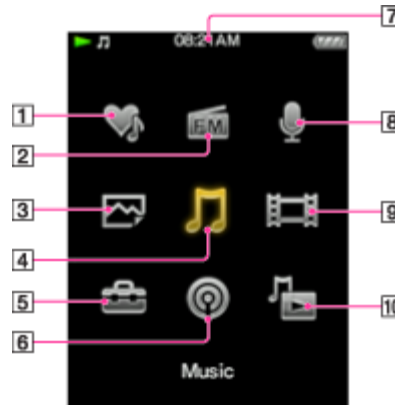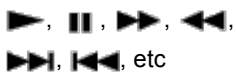
[1] **[SensMe™ Channels]** [Details]

Play songs using "SensMe™ Channels."

[2] **[FM Radio]** [Details]

Listen to FM radio broadcasting.

[3] **[Photos]** [Details]

View photos transferred to the player.

[4] **[Music]** [Details]

Listen to songs transferred to the player.

[5] **[Settings]** [Details]

Set up the player and its applications.

[6] **[Podcasts]** [Details]

Play back podcast episodes transferred to the player.

[7] **Information area** [Details]

[8] **[Voice Recording]** [Details]

Record voice using the player's built-in microphone.

[9] **[Videos]** [Details]

Watch videos transferred to the player.

[10] **[Go to song playback screen]**

Display the music playback screen.

About the information area

The icons shown in the table below appear in the information area. The icons vary according to the playback status, setting or screen.
For details about the icons, see each reference page.

Icons	Description

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▶, ❚❚, ▶▶, ◀◀, ▶▶❙, ❙◀◀, etc	Playback status [Details]
HOLD	Hold indication [Details]
▰▰▰	Remaining battery power [Details]
((●))	Alarm timer indication [Details]
⏻	Sleep timer indication [Details]
▪▪	Busy status indication

Related Topics

How to use the Home menu

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How to use the Home menu

The Home menu is the starting point of each application, such as searching for songs, changing settings, etc.
You can display the Home menu by pressing and holding the BACK/HOME button of the player.
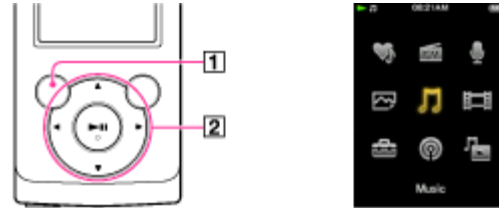
1 BACK/HOME button
2 5-way button

From the Home menu, you can select the desired item on the screen by using the 5-way button.

- ● ▲ / ▼ / ◀ / ▶ button: Selects an item.
- ● ▶❚❚ button: Confirms an item.

In this manual, operating instructions from the Home menu are described as below.
Example:
From the Home menu, select ♫ [Music] ➜ [Album] ➜ desired album ➜ desired song.

1. Press and hold the BACK/HOME button.
   The Home menu appears.
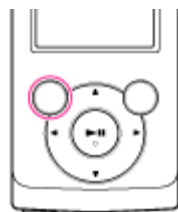
2. Press the ▲ / ▼ / ◀ / ▶ button to select ♫ [Music], and then press the ▶❚❚ button to confirm.
   The [Music] screen appears.

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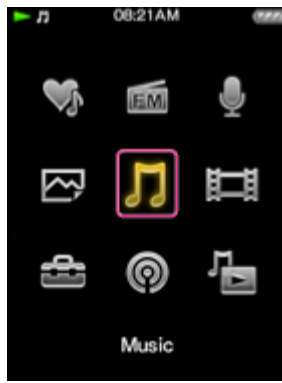
3. Press the ▲ / ▼ / ◀ / ▶ button to select [Album], and then press the ▶❚❚ button to confirm.
   The album list appears.
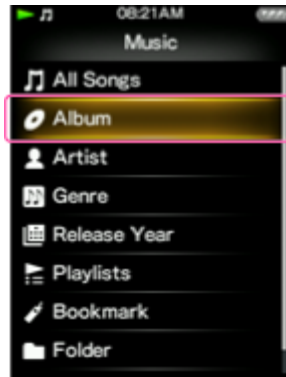
4. Press the ▲ / ▼ / ◀ / ▶ button to select an album, and then press the ▶❚❚ button to confirm.
   The song list for the selected album appears.
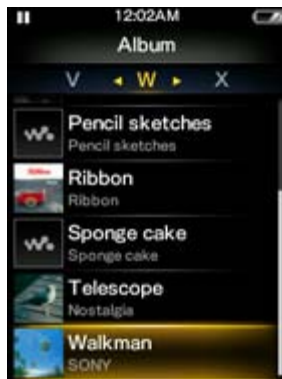
5. Press the ▲ / ▼ / ◀ / ▶ button to select a song, and then press the ▶❚❚ button to confirm.
   The music playback screen appears and playback begins.

To return to the Home menu during operation

Press and hold the BACK/HOME button.

To return to the previous screen during operation

Press the BACK/HOME button.

### Related Topics

How to use the option menu

About the Home menu

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How to use the option menu

The option menu items vary depending on the function, allowing you to change the settings of each application.
You can display the option menu by pressing the OPTION/PWR OFF button. Press the OPTION/PWR OFF button once more to dismiss the option menu.
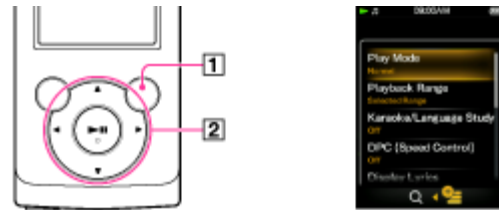
1 OPTION/PWR OFF button
2 5-way button

From the option menu, you can select the desired item on the screen by using the 5-way button.

- ◀ / ▶ buttons: Select a menu from among the option menu, 🔍 (Search) menu, and 🔳 [To Playback Screen] menu. (*1)
- ▲ / ▼ buttons: Select a menu item.
- ▶❚❚ button: Confirms an item.

(*1) The 🔍 (search) menu or the 🔳 [To Playback Screen] icon is not displayed depending on the screen.
For example, the operations for setting [Play Mode] option to [Shuffle] are shown below.

1. From the music playback screen, press the OPTION/PWR OFF button.
   The option menu appears.
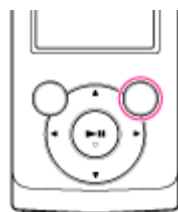
2. Press the ▲ / ▼ / ◀ / ▶ button to select [Play Mode], and then press the ▶❚❚ button to confirm.
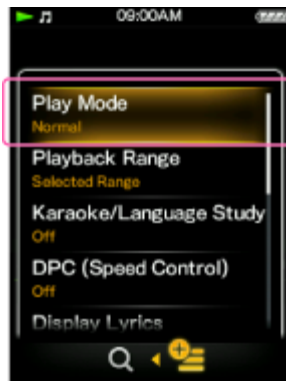
3. Press the ▲ / ▼ / ◀ / ▶ button to select [Shuffle], and then press the ▶❙❙ button to confirm.
The play mode changes to [Shuffle].
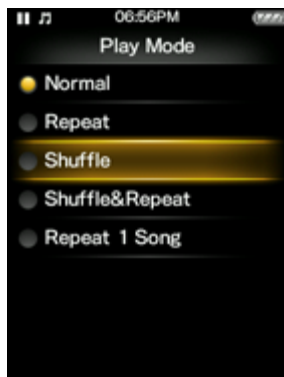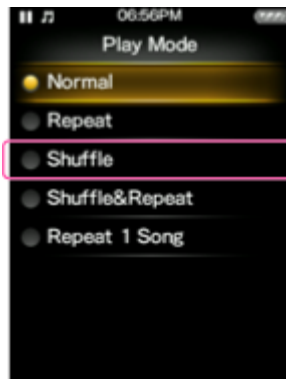
The items in the option menu differ, depending on the screen on which you press the OPTION/PWR OFF button.

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How to use the Home menu
Using the music option menu
Using the video option menu
Using the podcast option menu
Using the photo option menu
Using the FM radio option menu
Using the voice recording option menu

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Importing music from CDs using Windows Media Player

You can use Windows Media Player to copy (rip) music from your CDs. Follow these instructions to rip songs from a CD to your computer.

Hint
- For details about usage or support on Windows Media Player, refer to Windows Media Player information from the following web site:
  http://support.microsoft.com/

1. Insert an audio CD.

2. Start up Windows Media Player, and then click the [Rip] tab at the top of the window.
   When connected to the Internet, Windows Media Player obtains CD information (CD title, song name or artist name, etc.), and displays it in the window.

3. Click [Start Rip].
   Windows Media Player begins to import the CD.
   The imported songs are indicated as [Ripped to library]. Wait until all songs have been imported.

Hint
- Imported songs are stored in the [My Music] folder (Windows XP/Windows 7) or [Music] folder (Windows Vista) of the computer. Click the [Library] tab of the Windows Media Player window to find them.
- Windows Media Player obtains the CD information from a database on the Internet. However, depending on the CD, information may not be available in the database. If your CDs' information is missing, you can add it after importing. For information about adding and editing CD information, refer to the Help of Windows Media Player.
  If you want a song not to be imported, uncheck the checkbox to the left of the song title.

Note
- Imported songs are limited to private use only. Use of a song beyond this limitation requires permission of the copyright holders.

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Transferring music using Windows Media Player

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Transferring music using Windows Media Player

You can use Windows Media Player to transfer music from your computer to the player.
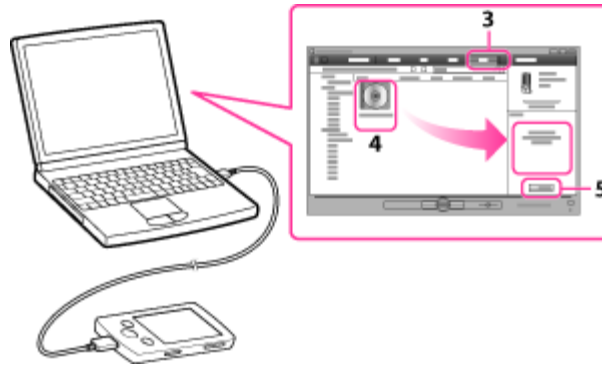
Note
- If Content Transfer starts automatically after connecting the player to your computer using the USB cable (supplied), close or ignore Content Transfer as Content Transfer need not be used. For details on setting automatic start of Content Transfer, refer to the Help of Content Transfer.

Hint
- For details about usage or support on Windows Media Player, refer to Windows Media Player information from the following web site:
http://support.microsoft.com/

1. Start up Windows Media Player, and then connect the player to your computer using the USB cable (supplied).
   Insert the connector of the USB cable into the player with the 🎵 mark facing up.
   The [Device Setup] window appears.

2. Click [Cancel].
   Close the auto play window, if it appears, by clicking [Cancel] or the Close icon.
   - If you click [Finish] instead of [Cancel], the entire library data of Windows Media Player is automatically copied to the player. If the library data size is larger than the available storage space on the player, the copy process will not start.
   - You can open the [Device Setup] window at any time. To open it, right-click [WALKMAN] on the left side of the Windows Media Player window, and then click [Set Up Sync].

3. Click the [Sync] tab on the Windows Media Player window.

4. Drag-and-drop the desired songs to the Sync List on the right side of the window.
   The songs are added to the Sync List.

5. Click [Start Sync] to start synchronization.
   When synchronization is complete, a message confirming you can disconnect the player appears on the Sync List. After completion, close Windows Media Player, and disconnect the player from the computer.

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Transferring music using Content Transfer

If you have already managed music with iTunes, etc., you can transfer them to the player using Content Transfer. You can use iTunes, etc., to drag-and-drop music to Content Transfer.
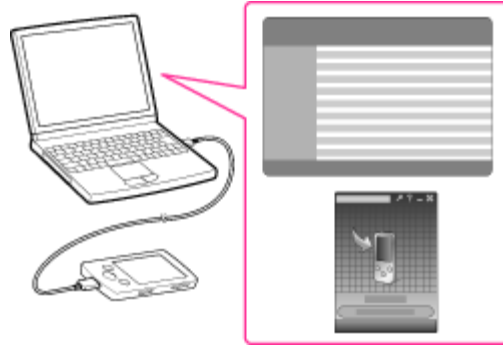
Note
- Content Transfer cannot be used for Windows Media Player contents.
- Contents with copyright protection cannot be transferred.
- Content Transfer supports data transfer from iTunes 9.0 to the player. For details on restrictions on transferring songs from iTunes, visit the customer support Web sites [Details].

1. Connect the player to your computer using the USB cable (supplied).
   Insert the connector of the USB cable into the player with the ᴡ▪ mark facing up.
   Content Transfer starts automatically.
   - For details on setting automatic start and general operation of Content Transfer, refer to the Help of Content Transfer.
   - You can also click [All programs] in the [start] menu, and then [Content Transfer] - [Content Transfer] to start the software.

2. Start up iTunes, etc.

3. Select the desired songs from iTunes, etc. (1), and drag-and-drop them to Content Transfer (2).
   Content Transfer recognizes the type of data by filename extension, and sends it to the appropriate folder of the player.

Related Topics
About the software
Transferring videos/photos/podcasts using Content Transfer
Transferring music using Windows Media Player

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Transferring videos/photos/podcasts using Content Transfer

You can transfer videos/photos/podcasts stored on your computer to the player using Content Transfer. You can transfer videos/photos/podcasts by drag-and-drop of the desired videos/photos/podcasts from Windows Explorer to Content Transfer.
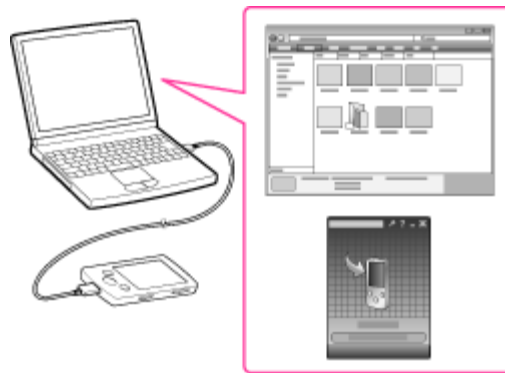
Note
- Do not disconnect the USB cable while [Do not disconnect.] appears on the player, as the data being transferred or the data stored in the player may be damaged.
- Contents with copyright protection cannot be transferred.

1. Connect the player to your computer using the USB cable (supplied).
   Insert the connector of the USB cable into the player with the ᴡᴡ mark facing up.
   Content Transfer starts automatically.
   - For details on setting automatic start and general operation of Content Transfer, refer to the Help of Content Transfer.
   - You can also click [All programs] in the [start] menu, and then [Content Transfer] - [Content Transfer] to start the software.

2. Select the desired videos/photos/podcasts from Windows Explorer (1), and drag-and-drop them to Content Transfer (2).

   Content Transfer recognizes the type of data by filename extension, and sends it to the appropriate folder of the player.

Related Topics

About the software
Transferring music using Content Transfer
Transferring videos/photos/podcasts using Windows Explorer
Watching videos [Videos]

Playing podcast [Podcasts]

Viewing photos [Photos]

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Transferring music using Windows Explorer

You can directly transfer data by drag-and-drop using Windows Explorer on your computer.

1. Connect the player to your computer using the USB cable (supplied).
   Insert the connector of the USB cable into the player with the 〰️ mark facing up.

2. Click [start] – [My Computer] or [Computer] – [WALKMAN] – [Storage Media], and then select the [MUSIC] folder.
   Data hierarchy may differ, depending on your computer environment.

3. Drag-and-drop files or folders (1) into the [MUSIC] folder (2), or one of its subfolders.

About the data hierarchy

Drag and drop files or folders into the correct folder as shown in the following illustration. The player can play back songs on the 1st to 8th level of the [MUSIC] folder.

MUSIC

Level 1 0001.wma — 1st

Level 7 0002.wma — 7th

Level 8 0003.wma — 8th

Level 9 0004.wma — 9th

Note

- Do not disconnect the USB cable while [Do not disconnect.] appears on the player. Otherwise, data being transferred or stored on the player may be damaged. If the player is disconnected while files are being transferred, unnecessary files may be left in the player. In this case, transfer usable files back to the computer and format the player [Details].
- Do not change folder names or delete the [MUSIC], [MP_ROOT], [MPE_ROOT], [VIDEO], [DCIM], [PICTURE], [PICTURES], [SCREENSAVER], [PODCASTS], [RECORD] and [VOICE] folders.
- Do not change folder or file names directly under the [MP_ROOT] or [MPE_ROOT] folders, otherwise, they will not be displayed on the player.
- Some files may not be played back on the player due to copyright protection.
- If Content Transfer starts automatically after connecting the player to your computer using the USB cable (supplied), close or ignore Content Transfer as Content Transfer need not be used. For details on setting automatic start of Content Transfer, refer to the Help of Content Transfer.

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Transferring music using Content Transfer
Transferring videos/photos/podcasts using Windows Explorer
Playing music

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Transferring videos/photos/podcasts using Windows Explorer

You can directly transfer data by drag-and-drop using Windows Explorer on your computer.

Hint
- Some WMV files can be played back only by transferring using Windows Media Player.

1. Connect the player to your computer using the USB cable (supplied).
   Insert the connector of the USB cable into the player with the ᴡᴡ mark facing up.

2. Click [start] – [My Computer] or [Computer] – [WALKMAN] – [Storage Media], and then select the [VIDEO], [PICTURE], [PICTURES], [DCIM] or [PODCASTS] folder.
   Data hierarchy may differ, depending on your computer environment.

3. Drag-and-drop files or folders into the [VIDEO], [PICTURE], [PICTURES], [DCIM] or [PODCASTS] folder or one of their subfolders.
   - Video files or folders: drag and drop into the [VIDEO] folder, or one of its subfolders.
   - Photo files or folders: drag and drop into the [PICTURE], [PICTURES] or [DCIM] folder, or one of their subfolders. If you want to use photos as the slide show screensaver [Details], drag and drop them into the [SCREENSAVER] folder in the [PICTURE] folder.
   - Podcast folders and episode files: drag and drop podcast folders into the [PODCASTS] folder and episode files into the podcast folders.
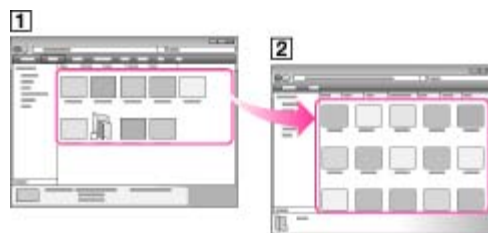
1️⃣ **Video/photo/podcast files or folders in your computer**

2️⃣ **Video: [VIDEO] folder in your player**
   Photo: [PICTURE], [PICTURES] or [DCIM] folder in your player
   Podcast: [PODCASTS] folder in your player

About the data hierarchy
Drag and drop files or folders into the correct folder as shown in the following illustrations.

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The player can play back videos on the 1st to 8th level of the [VIDEO] folder, and can display photos on the 1st to 8th level of the [PICTURE], [PICTURES] and [DCIM] folders. The player can play back podcast episodes on the 2nd level of the [PODCASTS] folder.

Note

- Do not disconnect the USB cable while [Do not disconnect.] appears on the player. Otherwise, data being transferred or stored on the player may be damaged. If the player is disconnected while files are being transferred, unnecessary files may be left in the player. In this case, transfer usable files back to the computer and format the player [Details].
- Do not change folder names or delete the [MUSIC], [MP_ROOT], [MPE_ROOT], [VIDEO], [DCIM], [PICTURE], [PICTURES], [SCREENSAVER], [PODCASTS], [RECORD] and [VOICE] folders.
- Do not change folder or file names directly under the [MP_ROOT] or [MPE_ROOT] folders. Otherwise, they will not be displayed on the player.
- Some files may not be played back on the player due to copyright protection.
- If Content Transfer starts automatically after connecting the player to your computer using the USB cable (supplied), close or ignore Content Transfer as Content Transfer need not be used. For details on setting automatic start of Content Transfer, refer to the Help of Content Transfer.

Related Topics

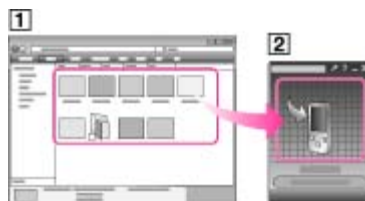Transferring videos/photos/podcasts using Content Transfer
Transferring music using Windows Explorer
Watching videos [Videos]
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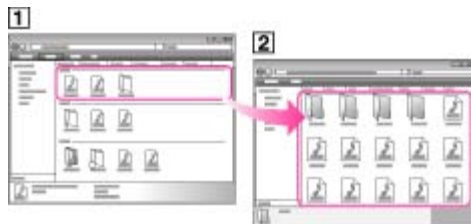
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Playing music

To play music, select ♫ [Music] on the Home menu to display the [Music] screen.

1. From the Home menu, select ♫ [Music].

The music menu appears.
- ● You can select the desired search method to display the music list screen and search for songs [Details].

2. Select desired search method ➜ desired song.
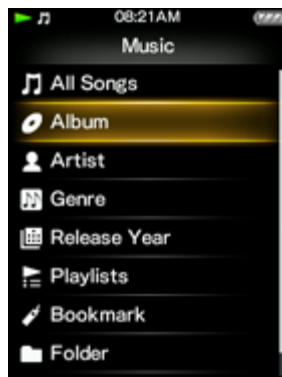
The music playback screen appears and song playback begins.
- ● Select items until a song list appears.
- ● For details on how to operate the music playback screen, see [Details].

Related Topics
Importing music from CDs using Windows Media Player
Transferring music using Windows Media Player
Transferring music using Content Transfer
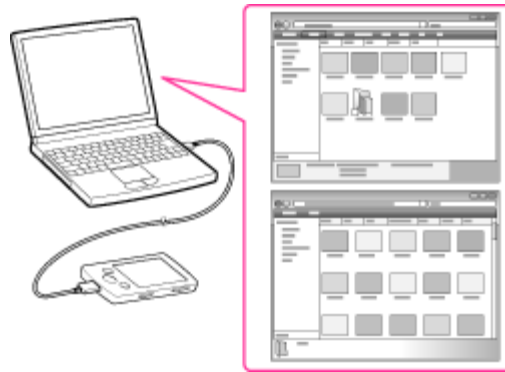Transferring music using Windows Explorer
Browsing and using the music screen
Searching for songs
Deleting songs
Using the music option menu

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Browsing and using the music screen

▼ Music playback screen
▼ Music list screen

Music playback screen

1 Information area
2 Current song number/Total song number to be played (*1)
3 Elapsed time/Total time (*1) (*2)
4 Progress bar (*1) (*2)
5 Play Mode [Details], Playback Range [Details], Equalizer [Details], VPT(Surround) [Details], A-B repeat [Details], Display Lyrics [Details] indication icons (*1)
6 Song name
7 Artist name
8 Album title

(*1) These items disappear after a while.
(*2) While playing back variable bit rate (VBR) songs, the elapsed time indication and the progress bar indicator may be unstable and inaccurate.

Indication icons of the music playback screen

Icon	Description
⊊	[Play Mode] is set to [Repeat] [Details].
SHUF	[Play Mode] is set to [Shuffle] [Details].
⊊ SHUF	[Play Mode] is set to [Shuffle&Repeat] [Details].
⊊1	[Play Mode] is set to [Repeat 1 Song] [Details].
▬	[Playback Range] is set to [Selected Range] [Details].
‖‖H	[Equalizer] is set to [Heavy] [Details].
‖‖P	[Equalizer] is set to [Pop] [Details].

▦ J	[Equalizer] is set to [Jazz] [Details].
▦ U	[Equalizer] is set to [Unique] [Details].
▦ 1	[Equalizer] is set to [Custom 1] [Details].
▦ 2	[Equalizer] is set to [Custom 2] [Details].
ⓘⓘS	[VPT(Surround)] is set to [Studio] [Details].
ⓘⓘL	[VPT(Surround)] is set to [Live] [Details].
ⓘⓘC	[VPT(Surround)] is set to [Club] [Details].
ⓘⓘA	[VPT(Surround)] is set to [Arena] [Details].
ⓘⓘM	[VPT(Surround)] is set to [Matrix] [Details].
♪▤	[Display Lyrics] is set to [On] or [On (No Screen Off)] [Details].
▤	There is a song lyrics file (LRC file) for the current song [Details].

Operations on the music playback screen

To (screen indication)	Do this
Play (▶)/pause (❙❙) (*1)	Press the ▶❙❙ button.
Fast forward (▶▶)/ fast rewind (◀◀)	Press and hold the ◀ / ▶ button.
Find the beginning of the previous (or current) song (❙◀◀)/ find the beginning of the next song (▶▶❙)	Press the ◀ / ▶ button.
Browse album covers to select an album (*2)	Press the ▲ / ▼ button.
Add to bookmark list	Press and hold the ▶❙❙ button.
Return to the list screen	Press the BACK/HOME button.

(*1) During pause, if there is no operation for a while, the player automatically enters standby mode.
(*2) You can browse album covers only when [Karaoke/Language Study] is set to [Off] [Details].

Icons which appear by pressing the OPTION/PWR OFF button

Icon	Description
Q (Search)	Shows the search menu. You can select the desired search method to display the list screen and search for songs [Details].
♆ (Option Menu)	Shows the option menu. For details on the music option menu, see [Details].

Music list screen

The following are examples of music list screens.

Song list screen
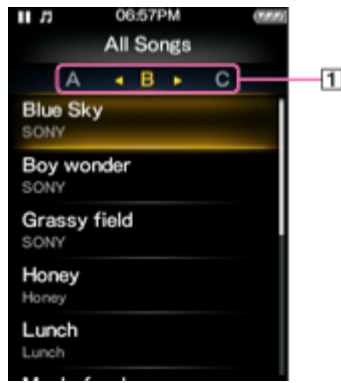
[1] Index

  The initials of song and album, etc., names in the list section appear.

Album list screen
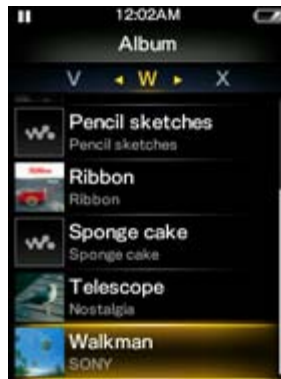
Hint

- You can change the display format of the album list to display the cover art only [Details].

Operations on the music list screen

To	Do this
Confirm an item in the list	Press the ►❙❙ button.
Move the cursor up or down	Press the ▲ / ▼ button. - Press and hold the ▲ / ▼ button to scroll up or down faster.
Move the cursor left/right when an index is displayed	Press the ◀ / ▶ button.
Display the previous/next screen of the list when an index is not displayed	Press the ◀ / ▶ button.
Move the cursor left/right when displaying cover arts only	Press the ◀ / ▶ button.
Add to bookmark list (*1)	Press and hold the ►❙❙ button.
Return to the list screen of the next upper level	Press the BACK/HOME button.

(*1) You can add transferred songs only to a bookmark list. You cannot add recorded files or albums.

Icons which appear by pressing the OPTION/PWR OFF button

Icon	Description

Q (Search) (*1)	Shows the search menu. You can select the desired search method to display the list screen and search for songs [Details].
⊞ (Option Menu) (*1)	Shows the option menu. For details on the music option menu, see [Details].
◼ [To Playback Screen]	Returns to the music playback screen.

(*1) These icons may not appear depending on the screen.

- ▸ Getting Started
- ▸ How to Use the Software
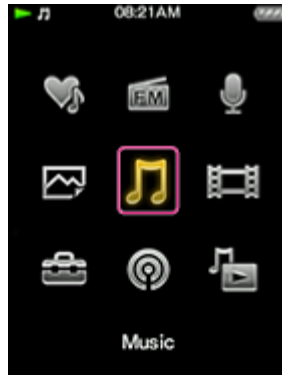- ▸ Music
- ▸ "SensMe™ Channels"
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Searching for songs

When you select $\mathbf{Q}$ (Search) on the music playback screen or the list screen, the search menu appears. You can select the desired search method on the search menu to search the music list for a desired song.

1. On the music playback screen or the list screen, press the OPTION/PWR OFF button.

2. Select $\mathbf{Q}$ (Search) ➜ desired search method ➜ desired song.

- Select items as follows until a song list appears.

Search method

Method	Description
[All Songs]	Select a song from the all songs list.
[Album]	Select an album ➜ song.
[Artist] (*1)	Select an artist ➜ an album ➜ song.
[Genre]	Select a genre ➜ an artist ➜ an album ➜ song.
[Release Year]	Select a release year ➜ an artist ➜ song.
[Playlists] (*2)	Select a playlist ➜ song.
[Bookmark]	Select a bookmark list ➜ song.
[Folder]	Select a folder ➜ song.
[Voice Recording]	Select a folder ➜ song.

(*1) "The" at the beginning of artist names is ignored when arranging a list.

(*2) Playlists are created by using Windows Media Player. For information on how to create a playlist, refer to the Help of Windows Media Player. Cover art images registered to a playlist are not displayed on the player.

Hint
- [All Songs], [Album], [Artist] and [Genre] lists are arranged in alphanumeric order. The [Release Year] list is arranged in reverse chronological order. In the [Voice Recording] list,

folders are displayed in reverse chronological order, and files are displayed in chronological order. In the [Folder] list, folders are displayed in name order first, then files are displayed in name order. In this case, upper or lower case letters are not distinguished.

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Using bookmarks

▼ Adding a song to a bookmark list
▼ Playing songs in a bookmark list
▼ Removing a song from a bookmark list
▼ Removing all songs from a bookmark list
▼ Rearranging songs in a bookmark list

You can add favorite songs to bookmark lists for easy playback.

Adding a song to a bookmark list

You can add the currently playing song to a bookmark list. You can also select a song from a song list to add it to a bookmark list.

> **Note**
> - You can add up to 100 songs to each bookmark list.
> - You cannot add recorded files, videos, or podcast episodes to a bookmark list.

To add the currently playing song

1. From the music playback screen, press and hold the ▶❚❚ button.
   The song is added to the default bookmark list. For how to change the default bookmark list, see [Details].

or,

1. From the music playback screen, press the OPTION/PWR OFF button to bring up the option menu.
2. Select [Add to Bookmark] ➡ desired bookmark list.

To select a song from a song list to add to a bookmark list

1. From a song list screen, press the ▲ / ▼ button to select a song.
2. Press and hold the ▶❚❚ button.
   The selected song is added to the default bookmark list. For how to change the default bookmark list, see [Details].

or,

1. From a song list screen, press the ▲ / ▼ button to select a song.
2. Press the OPTION/PWR OFF button to bring up the option menu.
3. Select [Add to Bookmark] ➡ desired bookmark list.

Playing songs in a bookmark list

1. From the Home menu, select 🎵 [Music] ➡ [Bookmark] ➡ desired bookmark list ➡ desired song.

> **Note**
> - While playing a song selected from a bookmark list, playback will pause if you carry out an

alternation to the playing bookmark list such as adding a song, removing a song or rearrange songs.

Removing a song from a bookmark list

1. From the Home menu, select ♫ [Music] ➜ [Bookmark] ➜ desired bookmark list ➜ desired song.

2. Press the OPTION/PWR OFF button to bring up the option menu.

3. Select [Remove from Bookmark].

or,

1. From the Home menu, select ♫ [Music] ➜ [Bookmark] ➜ desired bookmark list.

2. Press the ▲ / ▼ button to select a song.

3. Press the OPTION/PWR OFF button to bring up the option menu.

4. Select [Remove from Bookmark].

Removing all songs from a bookmark list

1. From the Home menu, select ♫ [Music] ➜ [Bookmark].

2. Press the ▲ / ▼ button to select a bookmark list.

3. Press the OPTION/PWR OFF button to bring up the option menu.

4. Select [Clear Bookmark List] ➜ [Yes].

Rearranging songs in a bookmark list

1. From the Home menu, select ♫ [Music] ➜ [Bookmark] ➜ desired bookmark list.

2. Press the OPTION/PWR OFF button to bring up the option menu.

3. Select [Edit Song Order].
   A right arrow appears to the left of a song name.

4. Press the ▲ / ▼ button to select a song, then press the ►II button.
   A double-headed arrow appears to the left of the selected song.

5. Press the ▲ / ▼ button to move the song to the desired location.

6. Press the ►II button to fix the location for the song.

7. Repeat step **4** to **6** to rearrange all songs you want.

8. After completing, press the BACK/HOME button to return to the bookmark list screen.

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Browsing cover arts to select an album (Album Scroll)

On the music playback screen, you can press the ▲ / ▼ button to scroll the cover art up or down and select the album.

Note
- You can use the album scroll function only when [Karaoke/Language Study] is set to [Off] [Details].

1. From the Home menu, select ♫ [Music] ➔ desired item to display the playback screen.

2. Press the ▲ / ▼ button on the music playback screen.
   The album scroll screen appears.

3. Press the ▲ / ▼ button to browse album covers.
   The cover art images are arranged by title in alphabetical order.

   [1]   **Cover art**

4. Select the cover art of the desired album, then press the ▶❙❙ button.
   The music playback screen reappears and playback of the selected album begins.

To cancel browsing
Press the BACK/HOME button.

Hint
- Cover art only appears if cover art information is available. You can set cover art using Windows Media Player, or another transfer capable software for setting cover art. For details on operation, refer to the Help or maker of the software. Cover art may not be displayed, depending on the cover art file format.

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Deleting songs

When you delete songs from the player, use the software you used to transfer the songs, or Windows Explorer.
For details about using the software, see the Help of the software.

Note
- You cannot delete songs without connecting the player to a computer except for voice recordings [Details].

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About the karaoke function

When you set [Karaoke/Language Study] to [Maximum Karaoke Mode] or [Minimum Karaoke Mode], the vocal of the playing song is suppressed and the lyrics of the song are displayed if the song's lyrics file is stored in the player. You can also change the key of a song.
Song lyrics are displayed when there is an LRC file for the song in the player. The LRC file must have the same file name as the song file, with extension ".lrc" (for example, "abc.lrc" for a song file "abc.mp3"). Place the LRC file in the same folder as the song file. The player synchronizes song lyrics with song playback. For how to create LRC files, see [Details].

Related Topics

Activating the karaoke function
Changing the key of a song
Displaying lyrics [Display Lyrics]
How to create LRC files

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Activating the karaoke function

1. From the Home menu, select [Settings] → [Music Settings] → [Karaoke/Language Study] → desired setting type.

Type	Description
[Off]	Disables the karaoke and language study function. (Default setting)
[Language Study]	Activates the language study function [Details].
[Maximum Karaoke Mode]	Activates the karaoke function. The vocal of the song is suppressed as much as possible. The screensaver will not start.
[Minimum Karaoke Mode]	Activates the karaoke function. The vocal of the song is suppressed, though still audible. The screensaver will not start.

Note
- When [Karaoke/Language Study] is set to [Maximum Karaoke Mode] or [Minimum Karaoke Mode], the ▲ / ▼ button works for the karaoke function and you cannot use the album scroll function. Also, the screensaver will not start. For details on the screensaver, see [Details].
- The DPC (Digital Pitch Control) function [Details] is disabled when [Karaoke/Language Study] is set to [Maximum Karaoke Mode] or [Minimum Karaoke Mode].
- The VPT (Surround) function [Details] is disabled when [Karaoke/Language Study] is set to [Maximum Karaoke Mode] or [Minimum Karaoke Mode].
- The effects of vocal suppression differ among songs. Depending on the song, the vocal may hardly be suppressed.

Music playback screen with karaoke activated

[1] Lyrics
[2] Operation guidance
[3] Lyrics icon

Related Topics

About the karaoke function

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Changing the key of a song

You can change the key of a song to make it easier to sing.

1. Use the ▲ / ▼ buttons during playback to raise/lower the key.

Note
- After the song has finished, the key reverts to normal and the next song will be played back in the original key.

Related Topics

About the karaoke function
Activating the karaoke function

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About language study

When you set [Karaoke/Language Study] to [Language Study], you can use the [Quick Replay] function and the A-B repeat function. This section also explains about the playback speed control function.

Hint
- You can adjust the playback speed when [Karaoke/Language Study] is set to [Off] or [Language Study], but cannot adjust when set to [Maximum Karaoke Mode] or [Minimum Karaoke Mode].
- For audio podcasts, set [Podcast Language Study] to [On] to use the [Quick Replay] function and the A-B repeat function in the podcast's audio playback screen [Details]. The [DPC (Speed Control)] setting also affects the playback speed of the audio podcast.

Related Topics
Activating the language study function
Rewinding slightly [Quick Replay]
Playing back a specified section repeatedly (A-B Repeat)
Adjusting the playback speed (DPC)

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Activating the language study function

▼ Activating the language study for music
▼ Activating the language study for audio podcast

Activating the language study for music

1. From the Home menu, select ▄ [Settings] ➜ [Music Settings] ➜ [Karaoke/Language Study] ➜ desired setting type.

Type	Description
[Off]	Disables the karaoke and language study function. (Default setting)
[Language Study]	Activates the language study function, allowing you to use the [Quick Replay] function and the A-B repeat function.
[Maximum Karaoke Mode]	Activates the karaoke function [Details].
[Minimum Karaoke Mode]	Activates the karaoke function [Details].

Note
- When [Karaoke/Language Study] is set to [Language Study], the ▲ / ▼ buttons work for the language study function; you cannot use the album scroll function [Details].

Music playback screen with language study activated

1 Operation guidance
2 Section A-B
3 Point B
4 Point A

Activating the language study for audio podcast

1. From the Home menu, select ![icon] [Settings] ➜ [Podcast Settings] ➜ [Podcast Language Study] ➜ desired setting type.

Type	Description
[On]	Activates the [Podcast Language Study], allowing you to use the [Quick Replay] function and the A-B repeat function.
[Off]	Disables the [Podcast Language Study]. (Default setting)

Audio podcast playback screen with language study activated

1 Operation guidance
2 Section A-B
3 Point B
4 Point A

Related Topics

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Rewinding slightly [Quick Replay]

You can rewind about 3 seconds to listen to audio again.

1. Press the ▲ button during playback on the music playback screen.

Hint
- When point A (starting point of A-B repeat) is set, if you press the ▲ button within 3 seconds of point A, playback returns to point A.

Related Topics

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Playing back a specified section repeatedly (A-B Repeat)

▼ A-B repeat operations

You can play back a specified section of audio repeatedly.

1. Press the ▼ button to specify the starting point of A-B repeat.

   The point A (starting point of A-B repeat) indicator appears. The section from point A to the end of the song is played back repeatedly.

2. Press the ▼ button to specify the ending point of the A-B repeat.

   The point B (ending point of A-B repeat) indicator appears. The section from point A to point B is played back repeatedly.

Note
- Put an interval of more than 1 second between point A and B. If you press the ▼ button within 1 second from point A, you cannot set point B.

A-B repeat operations

During A-B repeat, you can pause, resume playback, fast forward, fast rewind and [Quick Replay] as usual [Details]. In addition to that, you can perform the following operations.

To	Do this
Return to the point A	Press the ◀ button.
Proceed to the point B and exit the A-B repeat	Press the ▶ button.
Exit the A-B repeat	Press the ▼ button.

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Adjusting the playback speed (DPC)

You can adjust the playback speed between half and double normal speed by using the DPC (Digital Pitch Control) function. The audio is played back in natural tones by means of the digital processing function.

Hint
- You can adjust the playback speed when [Karaoke/Language Study] is set to [Off] or [Language Study], but cannot adjust when set to [Maximum Karaoke Mode] or [Minimum Karaoke Mode] [Details].
- The [DPC (Speed Control)] setting also affects the playback speed of an audio podcast [Details].

1. From the Home menu, select [Settings] ➜ [Music Settings] ➜ [DPC (Speed Control)]
   ➜ desired setting type.

Type	Description
[x0.5]	Plays back at half speed.
[x0.75]	Plays back at 0.75 times normal speed.
[x0.9]	Plays back at 0.9 times normal speed.
[Off]	Plays back at normal speed. (Default setting)
[x1.1]	Plays back at 1.1 times normal speed.
[x1.25]	Plays back at 1.25 times normal speed.
[x1.5]	Plays back at 1.5 times normal speed.
[x1.75]	Plays back at 1.75 times normal speed.
[x2.0]	Plays back at double speed.

Related Topics

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Using the music option menu

▼ Option items appearing on the album list screen
▼ Option items appearing on the music playback screen
▼ Option items appearing on the music list screen
▼ Option items appearing on the [Bookmark] screen
▼ Displaying the detailed information screen [Detailed Information]

You can bring up the music option menu by pressing the OPTION/PWR OFF button on the music list or on the music playback screen. For details on how to use the option menu, see [Details]. The option items shown on the option menu vary depending on the screen from which you bring it up. See the reference page for settings and usage.

Option items appearing on the album list screen

Option items	Description/reference page
[Album Display Format]	Selects the album list format [Details].

Option items appearing on the music playback screen

Option items	Description/reference page
[Play Mode]	Sets the play mode [Details].
[Playback Range]	Sets the playback range [Details].
[Karaoke/Language Study]	Sets the karaoke/language study mode [Details].
[DPC (Speed Control)] (*1)	Adjusts the playback speed of songs [Details].
[Display Lyrics] (*1)	Displays the lyrics of the playing song [Details].
[Equalizer]	Customizes the sound quality [Details].
[VPT(Surround)]	Customizes the [VPT(Surround)] settings [Details].
[Add to Wishlist/Remove from Wishlist]	Adds the song to the wish list to purchase it on the service corresponded software./ Removes the song from the wish list.
[Detailed Information]	Displays detailed information of a song, such as playing time, audio format, bit rate, and file name [Details].
[Add to Bookmark]	Adds the playing song to a bookmark list [Details].
[Remove from Bookmark]	Removes the playing song from a bookmark list [Details].
[Set As Alarm Song]	Sets the playing song as the alarm song [Details].
[Delete This Song]	Deletes a recorded voice [Details].

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(*1) These options do not appear when [Karaoke/Language Study] is set to [Maximum Karaoke Mode] or [Minimum Karaoke Mode].

Option items appearing on the music list screen

Option items (*1)	Description/reference page
[Add to Bookmark]	Adds the song to a bookmark list [Details].
[Remove from Bookmark] (*2)	Removes the song from a bookmark list [Details].
[Edit Song Order] (*2)	Rearranges songs in a bookmark list [Details].

(*1) These options do not appear when the recorded voice file list screen is displayed.
(*2) These options appear on the music list of a bookmark list only.

Option items appearing on the [Bookmark] screen

Option items	Description/reference page
[Clear Bookmark List]	Removes all songs in the bookmark list [Details].

Displaying the detailed information screen [Detailed Information]

1. From the music playback screen, press the OPTION/PWR OFF button to bring up the option menu.
2. Select [Detailed Information].

Detailed information screen

[1] Song name

[2] Artist name

[3] Album title

[4] Genre

[5] Release year

[6] Length of Song

[7] Codec
    While playing back copyright protected songs, [Secured] appears.

[8] Bit rate
    While playing back variable bit rate songs, [VBR] is shown.

9 File name

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Top page > Music > Music Settings > Setting the play mode [Play Mode]

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Setting the play mode [Play Mode]

The player offers a variety of play modes, including random play and selected repeat play.

1. From the Home menu, select ▣ [Settings] ➜ [Music Settings] ➜ [Play Mode] ➜ desired play mode type.

Type - icon	Description
[Normal] - No icon	The songs within the playback range are played back in the song list order. (Default setting)
[Repeat] - ⟲	The songs within the playback range are played back in the song list order and then repeated.
[Shuffle] - SHUF (*1)	The songs within the playback range are played back in random order.
[Shuffle&Repeat] - ⟲SHUF (*1)	The songs within the playback range are played back in random order and then repeated.
[Repeat 1 Song] - ⟲1	The current song or the song selected from a song list is played back repeatedly.

(*1) When [Play Mode] is set to [Shuffle] or [Shuffle&Repeat] and [Playback Range] is set to [All Range], the player will not shuffle all songs at once. Instead, the player will select an artist, album, etc. one by one and play their songs in random order. For example, if you select [Album] in the [Music] screen and select a song in an album, the player will play selected album's songs in random order, then select the next album in the album list to play its songs in random order, and continue in such a manner. However, [All Songs] and bookmark lists are exceptions. If you start from [All Songs], the player will shuffle all songs at once. If you start from a bookmark list, the selected bookmark list only will be played back and the others will not be played back.

Note
- Songs to be played back differ depending on the [Playback Range] settings [Details].

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Setting the playback range [Playback Range]

You can set the playback range of songs.

1. From the Home menu, select [Settings] ➜ [Music Settings] ➜ [Playback Range] ➜ desired playback range type.

Type - icon	Description
[All Range] - No icon	Plays back all the songs in all the lists of the selected search method. For example, if you start playback from an album list, all the albums in the player are played back.
[Selected Range] -	Plays back songs only in the lists from which playback starts. (Default settings) For example, if you start playback from an album list, the songs in that album only are played back.

Note

- If you start playback from a bookmark list, the songs in that bookmark list only are played back and songs in other bookmark lists are not played back even if [Playback Range] is set to [All Range].

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Setting the sound quality (CLEAR BASS) [Equalizer]

▼ Setting the sound quality
▼ Customizing sound quality

You can set the sound quality according to the music genre, etc.
Equalizer settings contain the CLEAR BASS setting. Increasing the CLEAR BASS setting value allows the player to reproduce dynamic deep bass without distortion, even at a high volume.

Setting the sound quality

1. From the Home menu, select [Settings] ➔ [Music Settings] ➔ [Equalizer] ➔ desired equalizer type.

Type - icon	Description
[None] - No icon	Sound quality setting is not activated. (Default setting) (*1)
[Heavy] - H	Emphasizes high and low ranges for a powerful sound.
[Pop] - P	Stresses the middle range audio, ideal for vocals.
[Jazz] - J	Emphasizes high and low ranges for a lively sound.
[Unique] - U	Emphasizes high and low ranges, so that even soft sounds can be heard easily.
[Custom 1] - 1	User-customizable sound settings for which you can adjust each frequency range individually. See [Details] for details.
[Custom 2] - 2	

(*1) The default setting of players sold in the Latin America region is [Custom 1], and CLEAR BASS is set to level +3.

Note
- If your personal settings saved as [Custom 1] and [Custom 2] seem to produce a different volume level than other settings, you may have to adjust the volume manually to compensate.
- The [Equalizer] setting is not applied while playing a video, FM radio or video podcast.

Customizing sound quality

You can preset the value of CLEAR BASS (bass) and 5 band Equalizer as [Custom 1] or [Custom 2].

1. From the Home menu, select [Settings] ➔ [Music Settings] ➔ [Equalizer] ➔ [Custom 1] or [Custom 2].

2. Press the ◀ / ▶ button to select CLEAR BASS or the frequency range setting, and press the ▲ / ▼ button to adjust the setting level, and then press the ▶❚❚ button to confirm. The [Music Settings] screen reappears.
   - CLEAR BASS can be set to any of 4 sound levels, and the 5 frequency ranges can be set to any of 7 sound levels.
   - After you have adjusted the setting level, be sure to press the ▶❚❚ button to confirm. If you press the BACK/HOME button before you confirm, the setting will be canceled.

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Customizing the surround sound [VPT(Surround)]

You can customize the surround sound by using the VPT (*1) (Surround) function to enrich the sound reproduction quality of the audio playback. The sense of realism is increasingly enhanced in the order of [Studio] ➜ [Live] ➜ [Club] ➜ [Arena] (most enhanced).

1. From the Home menu, select 🧰 [Settings] ➜ [Music Settings] ➜ [VPT(Surround)] ➜ desired VPT (Surround) type.

Type - icon	Description
[None] - No icon	[VPT(Surround)] setting is not activated. (Default setting)
[Studio] - S	Creates the sound of a recording studio.
[Live] - L	Creates the sound of a concert hall.
[Club] - C	Creates the sound of a club.
[Arena] - A	Creates the sound of an arena.
[Matrix] - M	Reproduces an additional surround effect, and creates a natural, yet richly enhanced sound.

(*1) VPT, which stands for Virtualphones Technology, is a proprietary sound processing technology developed by Sony.

Note
- The [VPT(Surround)] setting is not applied while playing a video, FM radio or video podcast.

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Listening with DSEE (Sound Enhance) [DSEE(Sound Enhance)]

By activating the [DSEE(Sound Enhance)] (*1) feature, you can hear a rich and natural sound almost exactly like the original source.

1. From the Home menu, select [Settings] ➡ [Music Settings] ➡ [DSEE(Sound Enhance)] ➡ desired DSEE (Sound Enhance) type.

Type	Description
[On]	Activates the [DSEE(Sound Enhance)] (*1) function, and plays back naturally extended sound, close to the original sound.
[Off]	Disables the [DSEE(Sound Enhance)] function and plays back sound normally. (Default setting)

(*1) DSEE, which stands for Digital Sound Enhancement Engine, is a technology developed by Sony, to enhance the sound quality of compressed audio files by restoring high-range sound removed by the compression process.

Note
- The [DSEE(Sound Enhance)] setting is not applied while playing a video, FM radio or video podcast.
- The [DSEE(Sound Enhance)] function is not effective for songs of a file format that is not compressed, or songs that are of a high bit rate with no treble loss.
- In the case of songs of very low bit rate, the [DSEE(Sound Enhance)] function will not be effective.

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Listening with Clear Stereo [Clear Stereo]

[Clear Stereo] enables individual left and right digital processing of the sound.

1. From the Home menu, select ▦ [Settings] ➜ [Music Settings] ➜ [Clear Stereo] ➜ desired Clear Stereo type.

Type	Description
[On]	Activates the [Clear Stereo] function when you use the supplied headphones.
[Off]	Disables the [Clear Stereo] function and plays back normal sound. (Default setting)

Note
- The [Clear Stereo] setting is not applied while playing a video, FM radio or video podcast.
- The [Clear Stereo] function is designed to obtain maximum effect with the supplied headphones. The [Clear Stereo] effect may not be obtained with other headphones. When using other headphones, set [Clear Stereo] to [Off].

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Adjusting the volume level [Dynamic Normalizer]

You can reduce the volume level between songs. With this setting, when listening to album songs in the shuffle play mode, the volume level between songs is moderated to minimize differences in their recording levels.

1. From the Home menu, select ▣ [Settings] ➜ [Music Settings] ➜ [Dynamic Normalizer] ➜ desired Dynamic Normalizer type.

Type	Description
[On]	Minimizes the difference in volume level between songs.
[Off]	Plays back songs at their original transferred volume level. (Default setting)

Note
- The [Dynamic Normalizer] setting is not applied while playing a video, FM radio or video podcast.

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Changing the default bookmark list [Default Bookmark List]

You can change the default bookmark list, to which you can add a song when you press and hold the ▶❚❚ button in the music playback screen or song list screen.

1. From the Home menu, select 🧰 [Settings] ➜ [Music Settings] ➜ [Default Bookmark List] ➜ desired bookmark list.

Item	Description
[Bookmark List 1]	Selects [Bookmark List 1] as the default book mark list to which a song will be added when you press and hold the ▶❚❚ button. (Default setting)
[Bookmark List 2]	Selects [Bookmark List 2] as the default book mark list to which a song will be added when you press and hold the ▶❚❚ button.
[Bookmark List 3]	Selects [Bookmark List 3] as the default book mark list to which a song will be added when you press and hold the ▶❚❚ button.
[Bookmark List 4]	Selects [Bookmark List 4] as the default book mark list to which a song will be added when you press and hold the ▶❚❚ button.
[Bookmark List 5]	Selects [Bookmark List 5] as the default book mark list to which a song will be added when you press and hold the ▶❚❚ button.

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Selecting the album display format [Album Display Format]

You can select the album display format.

1. From the Home menu, select ▣ [Settings] ➔ [Music Settings] ➔ [Album Display Format] ➔ desired Album Display Format type.

Type	[Title & Cover Art] (Default setting)	[Cover Art Only]
Screen		

Hint

- Cover art will not appear if there is no cover art information for the album. You can set cover art using Windows Media Player. For details on operation, refer to the Help of Windows Media Player. Note that the player will not display cover art attached to playlists.

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Displaying lyrics [Display Lyrics]

You can display song lyrics when there is an LRC file for the song in the player. The LRC file must have the same file name as the song file, with extension ".lrc" (for example, "abc.lrc" for a song file "abc.mp3"). Place the LRC file in the same folder as the song file. The player synchronizes song lyrics with song playback. For how to create LRC files, see [Details].

> **Note**
> - Some LRC files may not be playable on the player depending on the file format.

1. From the Home menu, select ▦ [Settings] ➜ [Music Settings] ➜ [Display Lyrics] ➜ desired display type.

Type	Description
[On]	Displays lyrics if the playing song has an LRC file. (Default setting)
[On (No Screen Off)]	Displays lyrics if the playing song has an LRC file. The player will not turn off the screen or run the screensaver during song playback regardless of whether an LRC file for the current song exists or not.
[Off]	Does not display lyrics. (*1)

(*1) When [Karaoke/Language Study] is set to [Maximum Karaoke Mode] or [Minimum Karaoke Mode], lyrics will be displayed regardless of this setting [Details].

Music playback screen while displaying lyrics

1 Lyrics
2 Lyrics icon

> **Note**
> - If lyrics are not displayed properly, save the LRC file in the UTF-8 encoding and transfer it again to the player.
> - The player can display up to 1,024 lines of lyrics for each song.
> - Playback and lyrics may become slightly out of sync.
> - You cannot display lyrics on the audio podcast playback screen [Details].
> - When set to [On], the screen turns off or changes to slide show when there is no operation for the time set in [Delay] [Details].

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How to create LRC files

▼ Notes on creating LRC files

1. Prepare an audio file for which you intend to display lyrics during playback.

2. Open Notepad.
   Click [start] ➡ [All programs] ➡ [Accessories] ➡ [Notepad] to open it.

3. Type lyrics text into Notepad.
   - The screen images are of Windows Vista.

```
Let's go
Walk across the bridge
Let's fly in the sky
```

4. Play back the audio file to check the time [minutes:seconds:hundredths of a second] for displaying each text line, then enter the time information to the left of the text line.

```
[00:01:90]Let's go
[00:05:27]Walk across the bridge
[00:13:72]Let's fly in the sky
```

- **Examples:**

[00:01:90]Let's go

1️⃣   2️⃣

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[1] Time information

[mm:ss:xx] where mm means minutes, ss means seconds, and xx means hundredths of a second. Enter mm, ss and xx in two digits. Use a colon to separate values.

[2] Lyric text line

The player recognizes up to 95 characters to display the text line on the screen. If a text line cannot fit in the screen, it will be wrapped (up to 3 lines). Characters beyond 3 lines will not be displayed.

[00:01.90]Let's go

You can separate seconds and hundredths of a second by a period instead of a colon.

[00:02]Let's go

You can omit hundredths of a second.

5. After finishing lyrics text input, save it as a file.

Select [File] ➜ [Save As…] to open the [Save As] screen. Select [All Files] in the [Save as type:] list at the bottom of the screen. Select [UTF-8] in the [Encode:] list. Enter the file name into the [File name:] text box. The file name must be the same as the audio file, with extension ".lrc". Click [Save] to save the LRC file.

[1] **[File name:]**

Enter the same file name as the audio file, with extension ".lrc" (for example, "abc.lrc" for an audio file "abc.mp3").

[2] **[Save as type:]**

Select [All Files] in the [Save as type:] list.

[3] **[Save]**

[4] **[Encoding:]**

Select [UTF-8] in the [Encode:] list.

The maximum size of LRC files is 512 KB.

6. Create a new folder in the [MUSIC] folder of the player, then drag and drop both the audio file and LRC file into the new folder to transfer them.

7. From the Home menu of the player, select 🎵 [Music] ➜ desired search method ➜ transferred song.

8. Press the OPTION/PWR OFF button to bring up the option menu, then select [Display Lyrics] ➜ [On] or [On (No Screen Off)].

The lyrics are displayed on the screen, synchronizing with audio playback.

Lyrics display on the player

Notes on creating LRC files

- The text encoding of LRC files must be UTF-8.
- An LRC file must have the same file name as the audio file, with extension ".lrc". Otherwise, the player cannot recognize the LRC file.
- The maximum size of LRC files is 512 KB.

Notes on lyrics text

- A character string that follows time information at the beginning of the text line is recognized as a lyric text line.
- Space characters (both 1-byte and 2-byte) immediately following time information will be ignored.
- Maximum number of displayable characters for each lyric text line
  - The player recognizes up to 95 characters to display the text line on the screen. Characters beyond this limitation are not displayed.
  - If a text line cannot fit in the screen, it will be wrapped (up to 3 lines). Characters beyond 3 lines will not be displayed.
- The player can display up to 1,024 lines of lyrics for each song.

Notes on new line control characters

- Any CR, CRLF and LF is recognized properly.
- A text line that contains only a new line is skipped.

Notes on LRC file format

- Time information must be at the beginning of a text line. Otherwise, it will be ignored and the number of displayable character may decrease.
- Time information must be entered in chronological order. If a line's time information is chronologically equal or before the previous line, the line will be skipped. In this case, text lines will also be skipped until a text line with time information that follows chronologically the last accepted line.
- A text line that contains time information only is displayed as a blank line (treated as a text that contains no characters).
- The player supports only lyrics display and does not support other information of LRC file format.

Copyright notice

When creating LRC files using copyrighted materials authored by others, created LRC files are limited to private use only. Use of LRC files beyond this limitation requires permission of the copyright holders.

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Optimizing the quality of the sound output from the speakers [SP Output Optimizer]

The player is equipped with the Digital Linear Phase Speaker feature to optimize the quality of sound from the speakers.
The Digital Linear Phase Speaker feature achieves a precise localization of sounds by improving the frequency-amplitude and phase characteristics.

Note
- This function is effective for the supplied speakers only. If your player is not supplied with speakers, set [SP Output Optimizer] to [Off].
- Speaker bundled model is not available in some countries/regions.

1. From the Home menu, select [Settings] ➜ [Music Settings] ➜ [SP Output Optimizer]
➜ desired setting type.

Type	Description
[SRS-NWGT015]	Activates the [SP Output Optimizer] function when sounds output from the speakers. The sound is optimized for SRS-NWGT015.
[Off]	Disables the [SP Output Optimizer] function and outputs normal sound from the speakers.

Note
- [SP Output Optimizer] is not applied to the sound output from the headphones.
- [SP Output Optimizer] is effective for music, audio podcast and "SensMe™ Channels" only. This function is not applied while playing a video, FM radio, or video podcast.

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What is "SensMe™ Channels"?

"SensMe™ Channels" is a function that automatically picks up songs to fit the themes of channels, and plays them back. You can play songs according to your mood, activity, time of the day, etc.
Before playing songs using "SensMe™ Channels," the sound pattern of the songs needs to be analyzed through 12 TONE ANALYSIS, a Sony development. 12 TONE ANALYSIS is loaded with software such as Content Transfer. For details about analysis of the software, refer to the Help of each software. You can also analyze songs using the player [Details].

Related Topics

Playing songs using "SensMe™ Channels"
Analyzing songs on the player
Using the "SensMe™ Channels" option menu

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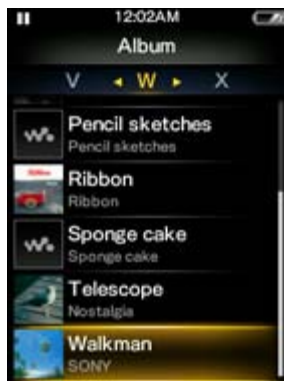- ▸ Important Information
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Playing songs using "SensMe™ Channels"

You can play songs to fit your mood, activity or time of day, etc., by selecting channels.

1. From the Home menu, select 💛 [SensMe™ Channels].
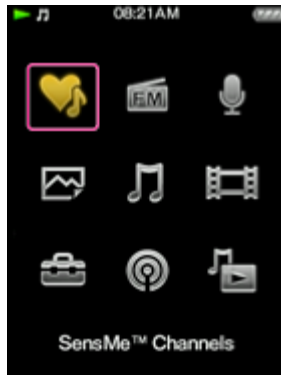
   The playback screen of "SensMe™ Channels" appears and the player starts playing back songs.

2. Press the ▲ / ▼ button to select a desired channel.

   When changing channels, the song starts from the middle of it. You can use the ▶❚❚ button and the ◀ / ▶ button to play/pause, fast forward/rewind, and find the beginning of a song in the same way as music playback [Details].
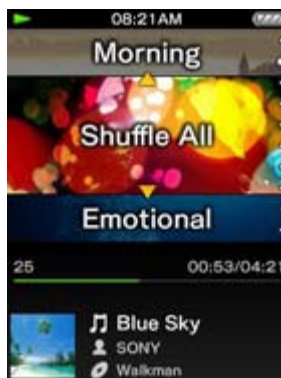
Hint
- Songs are played in random order. Each time you select a channel, the order of playback will vary.
- If you transfer songs using Content Transfer, the songs are played back from the most melodic and rhythmical section.

Note
- Depending on the file format, certain songs cannot be analyzed by 12 TONE ANALYSIS of Content Transfer. For those files, perform [Updating Channels] from the option menu [Details].
- You cannot play back recorded voice files or podcast episodes using "SensMe™

Channels."
- You cannot display lyrics while using "SensMe™ Channels."
- According to the analysis, a song may be selected by several channels or not selected at all. However, all songs can be played back using the [Shuffle All] channel.
- Every time you perform [Updating Channels], the result of analysis may vary.

List of channels

Channel	Description
[Morning]	Plays music for various times of the day.
[Daytime]	
[Evening]	
[Night]	
[Midnight]	
[Shuffle All]	Plays all songs in random order.
[Energetic]	Plays uptempo and high-energy music.
[Relax]	Plays calm and relaxing music.
[Upbeat]	Plays cheerful and uplifting music.
[Mellow]	Plays soft and slow-tempo music.
[Lounge]	Plays jazz and easy listening music.
[Emotional]	Plays ballads.
[Dance]	Plays rhythm, rap and R & B music.
[Extreme]	Plays loud and powerful music.

Note
- Channels that do not contain any songs are not displayed in the list.
- To listen to [Morning], [Daytime], [Evening], [Night] or [Midnight] according to the timetable, [Set Date-Time] [Details] needs to be set. If [Set Date-Time] is not set, [Morning] will be selected.
- While playing back a time-based channel, the channel will not shift to the next time-based channel even if the set time has passed. To listen to the next time-based channel, change to another channel and go back.
- If there are no songs for [Morning], [Daytime], [Evening], [Night] or [Midnight], all songs will be played back in random order in those channels.

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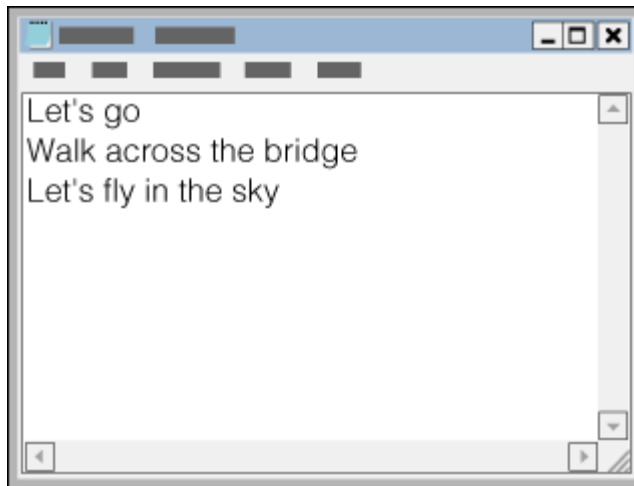- Troubleshooting
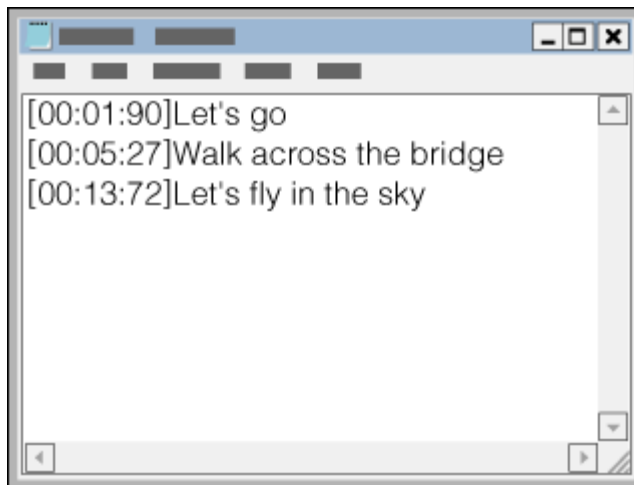- Important Information
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Analyzing songs on the player

If you transferred songs other than by using Content Transfer and want to listen to them using the "SensMe™ Channels," analyze them on the player.

1. From the Home menu, select 🎵 [SensMe™ Channels].

2. Press the OPTION/PWR OFF button to bring up the option menu.
The option menu appears.

3. Select [Updating Channels].
The player starts analyzing songs.
When the analysis is finished, the "SensMe™ Channels" screen appears.

To stop analyzing

Press the BACK/HOME button to stop analyzing. All songs analyzed up to the point where you stopped analyzing will be playable by "SensMe™ Channels."

Note
- If songs without analysis are transferred to the player, [There is an unanalyzed song. Please select Updating Channels from Option menu.] appears.
- The player analyzes all songs at once. You cannot analyze songs individually.
- The results of the analysis may vary between the player, the software, and the other devices.
- If you change channels, analyzed songs using [Updating Channels] are played back from approximately 45 seconds into the songs. And, if a song is less than 90 seconds, playback starts roughly from the middle of the song.
- If the alarm goes off [Details] during the analysis, the analysis process will be stopped. Songs analyzed up to the point where the alarm went off will be playable by "SensMe™ Channels."

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Using the "SensMe™ Channels" option menu

▼ Option items appearing on the "SensMe™ Channels" screen

You can bring up the "SensMe™ Channels" option menu by pressing the OPTION/PWR OFF button on the "SensMe™ Channels" screen. For details on how to use the option menu, see [Details].
The option items shown on the option menu vary depending on the screen from which you bring it up. See the reference page for settings and usage.

Option items appearing on the "SensMe™ Channels" screen

Option items	Description/reference page
[Updating Channels]	Analyzes the songs in the player through 12 TONE ANALYSIS [Details].
[DPC (Speed Control)]	Adjusts the playback speed of songs [Details].
[Equalizer]	Customizes the sound quality [Details].
[VPT(Surround)]	Customizes the [VPT(Surround)] settings [Details].
[Detailed Information]	Displays detailed information of a song, such as playing time, audio format, bit rate, and file name [Details].

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→ Contents list

Watching videos [Videos]

To play a video, select [Videos] on the Home menu to display the [Videos] screen.

1. From the Home menu, select [Videos].
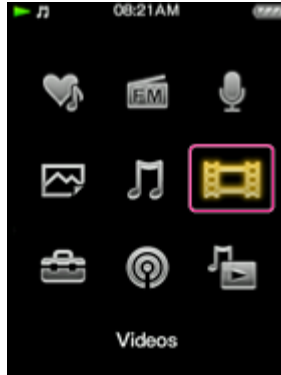
The [Videos] screen appears.
- You can select the desired search method to display the video list screen and search for videos [Details].

2. Select desired item ➜ desired video.

The video playback screen appears and playback of the video begins.
- Select items until a video list appears.
- For details on how to operate the video playback screen, see [Details].

Hint
- When the [On-Hold Display] option is set to [No], you can turn off the screen to enjoy sound only by setting the HOLD switch to on during video playback [Details]. By this operation, you can reduce power consumption for longer battery life.
- You can arrange the video list by transfer date or by video title [Details].
- You can set JPEG files as thumbnails of video files. When you display the video list, you can see the thumbnails (small pictures to display on the list) for the video files on the player. Use a computer to create a thumbnail, observing the following rules:
  - The thumbnail image file must be in JPEG format.
  - The image dimension must be horizontal 160 × vertical 120 dots.
  - The file name must be the same as the video file, with extension ".jpg".
  - The thumbnail and video file must be placed in the same folder of the player.
- The maximum video size playable on the player is 720 × 480. For detailed specifications, see [Details].
- Videos are not played back continuously. They are played back one by one.

Related Topics

Transferring videos/photos/podcasts using Content Transfer
Transferring videos/photos/podcasts using Windows Explorer
Browsing and using the video screen
Searching for videos
Deleting videos

Browsing and using the video screen

▼ Video playback screen
▼ Video list screen

Video playback screen

The player plays back videos in landscape orientation.

[1] Information area
[2] Total time
[3] Progress bar
[4] Elapsed time
These indications disappear after a while.

Operations on the video playback screen

While the player is playing back a video in landscape orientation, the ▲ / ▼ buttons and ◄ / ► buttons swap functions.

To (Screen indication)	Do this
Play (►)/pause (❚❚) (*1)	Press the ►❚❚ button.
Fast forward (►►)/fast rewind (◄◄)	• Press and hold the ◄ / ► button. • Press the ◄ / ► button. (*2)
Fast forward (►►)/fast rewind (◄◄) during pause (*3)	Press and hold the ◄ / ► button during pause.
Move to the previous scene (*4) or chapter (❙◄◄)/move to the next scene or chapter (►►❙)	Press the ▲ (previous)/ ▼ (next) button.
Forward slightly/rewind slightly	Press the ◄ / ► button during pause.
Return to the list screen	Press the BACK/HOME button.

(*1) During pause, if there is no operation for a while, the player automatically enters standby mode.

(*2) Forward speed changes through 3 levels by repeatedly pressing ▶ (▶▶1(×10), ▶▶2 (×30), ▶▶3 (×100)). Also, rewind speed changes through 3 levels by repeatedly pressing ◀ (◀◀1(×10), ◀◀2 (×30), ◀◀3 (×100)). Press the ▶❚❚ button to exit the operation and resume normal playback.

(*3) The speed of fast forward/fast rewind during pause varies depending on the length of the video.

(*4) If there is only one chapter in the video, the playback position moves back/forward in steps of 5 minutes.

Icons which appear by pressing the OPTION/PWR OFF button

Icon	Description
🔍 (Search)	Shows the search menu. You can select the desired search method to display the list screen and search for videos [Details].
(Option Menu)	Shows the option menu. For details on the video option menu, see [Details].
[Scene Scroll]	Shows the scene scroll screen. You can browse scenes or chapters by scrolling the thumbnail (*1) on the screen, to select the desired scene [Details].

(*1) Thumbnail refers to a reduced size image of one scene of a video.

Video list screen

The following is an example of video list screens.
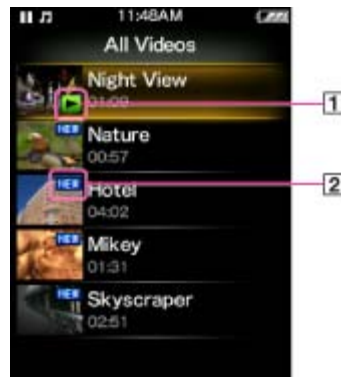
1 Playback icon

2 New icon

Icons of videos

The following icons are displayed in the video field.

Icon	Description
NEW (New icon)	Shows that the video has never been played back.
▶ (Playback icon)	Shows that the video is currently playing.

Operations on the video list screen

To	Do this
Select an item	Press the ▶❚❚ button.

Move the cursor up or down	Press the ▲ / ▼ button. ● Press and hold the ▲ / ▼ button to scroll up or down faster.
Display the previous/next screen of the list	Press the ◀ / ▶ button.
Return to the list screen of the next upper level	Press the BACK/HOME button.

Icons which appear by pressing the OPTION/PWR OFF button

Icon	Description
Q (Search) (*1)	Shows the search menu. You can select the desired search method to display the list screen and search for videos [Details].
⬛ (Option Menu) (*1)	Shows the option menu. For details on the video option menu, see [Details].
⬛ [To Playback Screen]	Returns to the video playback screen.

(*1) These icons may not appear depending on the screen.

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Searching for videos

When you select 🔍 (Search) on the video playback screen or the list screen, the search menu appears. You can select the desired search method on the search menu to search the video list for a desired video.

1. On the video playback screen or the list screen, press the OPTION/PWR OFF button.

2. Select 🔍 (Search) ➜ desired search method ➜ desired video.
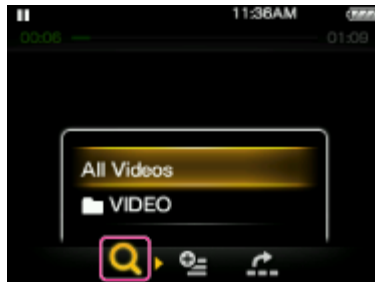
The video playback screen appears and playback of the video begins.
- ● Select items as follows until a video list appears.

Search method

Method	Description
[All Videos]	Select a video from the video list.
[VIDEO]	Select a folder ➜ video.

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Browsing scenes [Scene Scroll]

You can display thumbnails (*1) to select a scene or chapter to play back.

(*1) Thumbnail refers to a reduced size image of one scene of a video.

1. On the video playback screen, press the OPTION/PWR OFF button.

2. Select [Scene Scroll].
   The scene scroll screen appears.

3. Press the ◀ / ▶ button to scroll images.
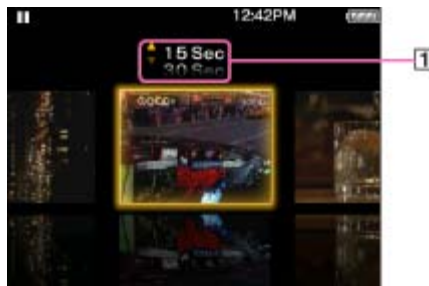
1

Scene interval setting

You can set the interval of scenes displayed as thumbnails.

You can set the interval to [15 Sec], [30 Sec], [1 Min], [2 Min] or [5 Min]. Press the ▲

/ ▼ button to select the desired interval.

4. Select the desired image, then press the ▶❚❚ button to confirm.

The video playback screen reappears and playback begins from the beginning of the scene you selected.

Hint
- Use the scene thumbnails as a guide (because each thumbnail may have a deviation from the exact time interval).

To cancel the browsing

Press the BACK/HOME button.

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Deleting videos

▼ Deleting a currently playing video
▼ Deleting videos by selecting from a list

You can delete videos from the player.

Deleting a currently playing video

1. From the playback screen of the video, press the OPTION/PWR OFF button to bring up the option menu.

2. Select [Delete Video] ➜ [Yes].
   The video is deleted.

Deleting videos by selecting from a list

1. From the video list screen, press the OPTION/PWR OFF button to bring up the option menu.

2. Select [Delete Video].
   The [Delete Video] screen appears.

3. Select a video you intend to delete ➜ [Yes].
   The selected video is deleted.

4. Repeat step **3** to delete other videos, if necessary.

5. Press the BACK/HOME button to return to the video list screen.

Hint
- While selecting a video to be deleted, you can press the BACK/HOME button to cancel deleting and return to the previous list screen.

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Using the video option menu

▼ Option items appearing on the video list screen
▼ Option items appearing on the video playback screen

You can bring up the video option menu by pressing the OPTION/PWR OFF button on the video list or on the video playback screen. For details on how to use the option menu, see [Details]. The option items shown on the option menu vary depending on the screen from which you bring it up. See the reference page for settings and usage.

Option items appearing on the video list screen

Option items	Description/reference page
[Order of Video List]	Arranges the video list by date or by title [Details].
[Delete Video]	Deletes videos [Details].

Option items appearing on the video playback screen

Option items	Description/reference page
[Zoom Settings]	Sets the zoom function [Details].
[Brightness]	Adjusts the brightness of the screen [Details].
[On-Hold Display]	Sets to turn off the video screen while the player is on hold [Details].
[Detailed Information]	Displays file information, such as file size, resolution, video/audio compression format, and file name, etc.
[Delete Video]	Deletes the videos from the player [Details].

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## Setting the zoom function [Zoom Settings]

You can zoom in the currently playing video.

1. From the Home menu, select [Settings] ➜ [Video Settings] ➜ [Zoom Settings] ➜ desired zoom setting type.

Type	Description
[Auto]	The video image is resized to fit the display area, maintaining the original aspect ratio (Default setting). When a 16:9 (wide size) video image is displayed, black bands appear on the top and bottom of the screen. 1⃣　　　　　　　2⃣ 1⃣ 16:9 source 2⃣ 4:3 source
[Full]	The video image is resized to fill the available display area, maintaining the aspect ratio. When a 16:9 (wide size) video image is displayed, the right/left sides of the image are trimmed to fit. 1⃣　　　　　　　2⃣ 1⃣ 16:9 source 　 The dotted line frame represents the original video image size. 2⃣ 4:3 source
[Off]	The video image is not resized, and appears in the original resolution. If video resolution is too high, the left, right, top and bottom of the screen will be cut. If video resolution is too low, black bars will appear on the right, left, top and bottom of the screen.

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Playing only video sound [On-Hold Display]

You can set to turn off the video screen while the player is on hold, allowing you to enjoy video sound only.
Setting this option to [No] saves battery power for longer battery life.

1. From the Home menu, select ▨ [Settings] ➜ [Video Settings] ➜ [On-Hold Display] ➜ desired On-Hold Display setting type.

Type	Description
[Yes]	When the player is on hold, the buttons are deactivated, but videos will be played back normally. (Default setting)
[No]	When the player is on hold, the buttons are deactivated and the screen turns off, but the sound of the current video is played back.

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Arranging the video list [Order of Video List]

Arranges the video list by date or by title.

1. From the Home menu, select ▦ [Settings] ➡ [Video Settings] ➡ [Order of Video List]
   ➡ desired order of video list type.

Type	Description
[Date/Time (Oldest)]	Arranges the video list by transfer/record date in ascending order.
[Date/Time (Newest)]	Arranges the video list by transfer/record date in descending order. (Default setting)
[Title (A>Z)]	Arranges the video list by title in ascending order.
[Title (Z>A)]	Arranges the video list by title in descending order.

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What is a podcast?

A "podcast" is a group of audio or video files that is published on the Internet. The files, called episodes, can be downloaded to a computer automatically by using RSS, to play back. Many news sites, corporations, or individuals publish podcasts by using RSS. You can subscribe to a podcast by using your computer. When the latest episodes are added to the podcast, you can download them to your computer. After downloading, you can transfer them to the player by using Windows Explorer or Content Transfer, and play them back on the player.

Related Topics

Transferring videos/photos/podcasts using Content Transfer
Transferring videos/photos/podcasts using Windows Explorer
Playing podcast [Podcasts]
Browsing and using the podcast screen
Deleting podcasts
Using the podcast option menu

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Playing podcast [Podcasts]

1. From the Home menu, select ⊚ [Podcasts] ➡ desired podcast ➡ desired episode.
   The podcast playback screen appears.
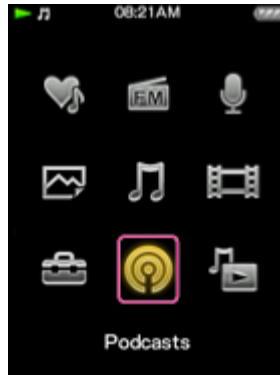
Note
- You cannot play back podcast episodes continuously.

Hint
- When [Podcast Language Study] is set to [On], you can use the [Quick Replay] function and the A-B repeat function in the podcast's audio playback screen [Details]. The [DPC (Speed Control)] setting also affects the playback speed of the audio podcast [Details].

Related Topics

Transferring videos/photos/podcasts using Content Transfer
Transferring videos/photos/podcasts using Windows Explorer
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Browsing and using the podcast screen

▼ Audio podcast playback screen
▼ Video podcast playback screen
▼ Episode list screen
▼ Podcast list screen

Audio podcast playback screen

[1] Information area
[2] Elapsed time (*1)
[3] Total time (*1)
[4] Progress bar (*1)
[5] Episode name
[6] Artist name
[7] Podcast name
(*1) These items disappear after a while.

Operations on the audio podcast playback screen

To (Screen indication)	Do this
Play (▶)/pause (❚❚) (*1)	Press the ▶❚❚ button.
Fast forward (▶▶)/fast rewind (◀◀)	Press and hold the ◀ / ▶ button.
Find the beginning of the episode (*2)	Press the ◀ / ▶ button.
Return to the list screen	Press the BACK/HOME button.

(*1) During pause, if there is no operation for a while, the player automatically enters standby mode.

(*2) Both of the ◀ / ▶ buttons find the beginning of the episode. To play back the next episode, press the BACK/HOME button to display the episode list to select the desired episode.

Video podcast playback screen

[1] Information area
[2] Total time
[3] Progress bar
[4] Elapsed time
These indications disappear after a while.

Operations on the video podcast playback screen

While the player is playing back a video in landscape orientation, ▲ / ▼ buttons and ◀ / ▶ buttons interchange their functions with each other.

To (Screen indication)	Do this
Play (▶)/pause (▋▋) (*1)	Press the ▶▋▋ button.
Fast forward (▶▶)/fast rewind (◀◀) (*2) (*3)	• Press and hold the ◀ / ▶ button. • Press the ◀ / ▶ button. (*4)
Fast forward (▶▶)/fast rewind (◀◀) during pause (*5)	Press and hold the ◀ / ▶ button during pause.
Move to the previous scene (*6) (▋◀◀)/move to the next scene (▶▶▋)	Press the ▲ (previous)/ ▼ (next) button.
Rewind slightly/forward slightly	Press the ◀ / ▶ button during pause.
Return to the list screen	Press the BACK/HOME button.

(*1) During pause, if there is no operation for a while, the player automatically enters standby mode.
(*2) If you fast-forward to the end of the episode, playback pauses. If you fast-rewind to the beginning of an episode during playback, playback restarts automatically. If you fast-rewind to the beginning of an episode during pause, playback remains paused.
(*3) These buttons may not work as described above depending on the episode.
(*4) Forward speed changes through 3 levels by repeatedly pressing ▶ (▶▶1 (×10), ▶▶2 (×30), ▶▶3 (×100)). Also, rewind speed changes through 3 levels by repeatedly pressing ◀ (◀◀1 (×10), ◀◀2 (×30), ◀◀3 (×100)). Press the ▶▋▋ button to exit the operation and resume normal playback.
(*5) The speed of fast forward/fast rewind during pause varies depending on the length of the video.
(*6) If there is only one chapter in the video, the playback position moves with an interval of 5 minutes.

Icons which appear by pressing the OPTION/PWR OFF button

Icon	Description
⚏ (Option Menu)	Shows the option menu. For details on the podcast option menu, see [Details].

🎞 [Scene Scroll] (*1)	Shows the scene scroll screen. You can browse scenes or chapters by scrolling thumbnails (*2) on the screen, to select a desired scene [Details].

(*1) Scene Scroll icon appears on the video playback screen only.
(*2) Thumbnail refers to a reduced size image of one scene of a video.

Episode list screen

Episodes are displayed in the episode list screen in name order.

1 Podcast name
2 Playback icon
3 Audio icon
4 New icon
5 Video icon

Icons of episodes

The following icons are displayed in the episode field.

Icon	Description
🎵 (Audio icon)	Shows that the episode is an audio episode.
🎞 (Video icon)	Shows that the episode is a video episode.
NEW (New icon)	Shows that the episode has never been played back.
▶ (Playback icon)	Shows that the episode is currently playing.

Operations on the episode list screen

To (Screen indication)	Do this
Select an item	Press the ▶❙❙ button.
Move the cursor up or down	Press the ▲ / ▼ button. • Press and hold the ▲ / ▼ button to scroll up or down faster.
Display the previous/next screen of the list	Press the ◀ / ▶ button.
Return to the [Podcast List] screen	Press the BACK/HOME button.

Icons which appear by pressing the OPTION/PWR OFF button

Icon	Description
🔆 (Option Menu)	Shows the option menu. For details on the podcast option menu, see [Details].
📁 [To Playback Screen]	Returns to the podcast playback screen.

Podcast list screen

Podcasts are displayed in the [Podcast List] screen in name order.
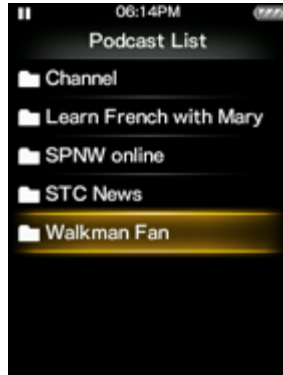
Operations on the [Podcast List] screen

To (Screen indication)	Do this
Select an item	Press the ▶❚❚ button.
Move the cursor up or down	Press the ▲ / ▼ button. • Press and hold the ▲ / ▼ button to scroll up or down faster.
Display the previous/next screen of the list	Press the ◀ / ▶ button.

Icons which appear by pressing the OPTION/PWR OFF button

Icon	Description
🔆 (Option Menu)	Shows the option menu. For details on the podcast option menu, see [Details].
📁 [To Playback Screen]	Returns to the podcast playback screen.

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Deleting podcasts

▼ Deleting the currently playing episode
▼ Deleting an episode in the episode list
▼ Deleting a podcast
▼ Deleting all podcasts

You can delete an episode, a podcast, or all transferred podcasts.

Deleting the currently playing episode

1. From the playback screen of the episode you intend to delete, press the OPTION/PWR OFF button to bring up the option menu.
2. Select [Delete This Episode] ➡ [Yes].

Deleting an episode in the episode list

1. From the episode list, press the OPTION/PWR OFF button to bring up the option menu.
2. Select [Delete Episode].
   The [Delete Episode] screen appears.
3. Select an episode you intend to delete ➡ [Yes].
   The selected episode is deleted.
4. Repeat step **3** to delete other episodes, if necessary.
5. Press the BACK/HOME button to return to the episode list screen.

Deleting a podcast

The following operations delete all episodes of a podcast and delete the podcast itself.

1. From the [Podcast List] screen, press the OPTION/PWR OFF button to bring up the option menu.
2. Select [Delete Podcast].
   The [Delete Podcast] screen appears.
3. Select a podcast you intend to delete ➡ [Yes].
   The selected podcast is deleted.
4. Repeat step **3** to delete other podcasts, if necessary.
5. Press the BACK/HOME button to return to the [Podcast List] screen.
or,
1. From the episode list of the podcast you intend to delete, press the OPTION/PWR OFF button to bring up the option menu.
2. Select [Delete This Podcast] ➡ [Yes].

Deleting all podcasts

This operation deletes all episodes and podcasts.

1. From the [Podcast List] screen, press the OPTION/PWR OFF button to bring up the option menu.

2. Select [Delete All Podcasts] ➜ [Yes].

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Using the podcast option menu

▼ Option items appearing on the podcast playback screen
▼ Option items appearing on the episode list screen
▼ Option items appearing on the [Podcast List] screen

You can bring up the podcast option menu by pressing the OPTION/PWR OFF button on the podcast playback screen or on the list screen. For details on how to use the option menu, see [Details].
The option items shown on the option menu vary depending on the screen from which you bring it up. See the reference page for settings and usage.

Option items appearing on the podcast playback screen

Option items	Description/reference page
[Podcast Language Study] (audio only)	Allows you to use the [Quick Replay] function and the A-B repeat function [Details].
[DPC (Speed Control)] (audio only)	Adjusts the playback speed of songs [Details].
[Equalizer] (audio only)	Customizes the sound quality [Details].
[VPT(Surround)] (audio only)	Customizes the [VPT(Surround)] settings [Details].
[Zoom Settings] (video only)	Sets the zoom function [Details].
[Brightness] (video only)	Adjusts the brightness of the screen [Details].
[On-Hold Display] (video only)	Sets to turn off the video screen while the player is on hold [Details].
[Detailed Information]	Displays detailed information of an episode.
[Delete This Episode]	Deletes the current episode [Details].

Option items appearing on the episode list screen

Option items	Description/reference page
[Delete Episode]	Displays the delete episode screen to select an episode to delete [Details].
[Delete This Podcast]	Deletes the current podcast [Details].

Option items appearing on the [Podcast List] screen

Option items	Description/reference page
[Delete Podcast]	Displays the [Delete Podcast] screen to select a podcast to delete [Details].
[Delete All Podcasts]	Deletes all podcasts and episodes [Details].

Option items	Description/reference page
[Delete Podcast]	Displays the [Delete Podcast] screen to select a podcast to delete

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Viewing photos [Photos]

To view photos, select ⌧ [Photos] on the Home menu to display the [Photos] screen.

1. From the Home menu, select ⌧ [Photos].
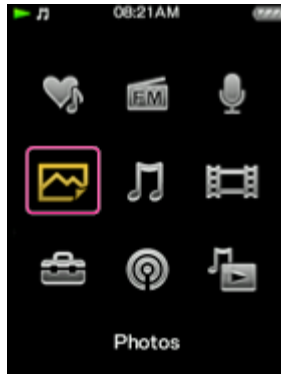
The [Photos] screen appears.

2. Select desired item ➡ desired photo.
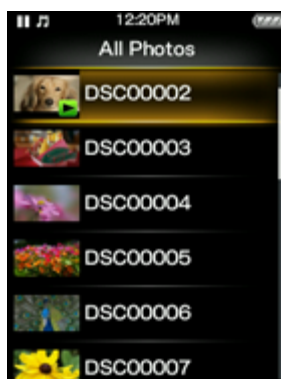
The photo display screen appears.
- Press the ◀ / ▶ button to display the previous or next photo.
- For details on how to operate the photo display screen, see [Details].

Hint
- Playback of songs continues even while you are searching for photos in the photo folder lists or photo lists, or when the photo display screen is displayed.
- You can arrange photos transferred to the player by folder. Select the player (as [WALKMAN]) using Windows Explorer, and drag and drop a new folder just under the [DCIM], [PICTURE] or [PICTURES] folder. For details on data hierarchy, see [Details].
- You can transfer photos to the [SCREENSAVER] folder in the [PICTURE] folder to specify photos to display in a slide show as a screensaver [Details].
- Photo files are displayed in alphabetical order. The files under the [PICTURE], [PICTURES] and [DCIM] folders are displayed in the [PICTURE], [PICTURES] and [DCIM] folders respectively.

Note

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- If the size of a photo is too large, or the photo file is damaged, appears, and the photo cannot be displayed.

Related topics

Transferring videos/photos/podcasts using Content Transfer
Transferring videos/photos/podcasts using Windows Explorer
Browsing and using the photo screen
Deleting photos
Using the photo option menu

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Browsing and using the photo screen

▼ Photo display screen
▼ Photo list screen

Photo display screen

When a photo appears on the screen, information such as the photo's file name is displayed for a few seconds.

[1] Information area

Operations on the photo display screen

While the player is playing back a photo in landscape orientation, the ▲ / ▼ and ◀ / ▶ buttons interchange their functions with each other.

To (Screen indication)	Do this
Display the next/previous photo	Press the ◀ (previous)/ ▶ (next) button.
Display the following/previous photos consecutively	Press and hold the ◀ (previous)/ ▶ (next) button.
Return to the list screen	Press the BACK/HOME button.

Icons which appear by pressing the OPTION/PWR OFF button

Icon	Description
Q (Search)	Shows the search menu. You can select the desired search method to display the list screen and search for photos.
(Option Menu)	Shows the option menu. For details on the photo option menu, see [Details].

Photo list screen

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The following are examples of photo list screens.

[Thumbnail Only]

1 Playback icon

[Thumbnail + Title]
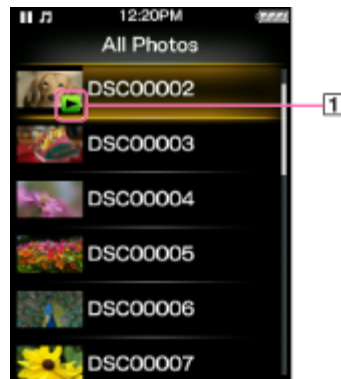
1 Playback icon

Icon of photos

The following icon is displayed in the photo field.

Icon	Description
(Playback icon)	Shows that the photo is currently displayed.

Operations on the photo list screen

To (Screen indication)	Do this
Select an item	Press the ▶❚❚ button.
Move the cursor up or down	Press the ▲ / ▼ button. ● Press and hold the ▲ / ▼ button to scroll up or down faster.
Display the previous/next screen of the list ([Thumbnail + Title])	Press the ◀ / ▶ button.
Move the cursor right or left ([Thumbnail Only])	Press the ◀ / ▶ button.
Return to the list screen of the next upper level	Press the BACK/HOME button.

Icons which appear by pressing the OPTION/PWR OFF button

Icon	Description
Q (Search) (*1)	Shows the search menu. You can select the desired search method to display the list screen and search for photos.
🖭 (Option Menu) (*1)	Shows the option menu. For details on the photo option menu, see [Details].
▣ [To Playback Screen]	Returns to the photo display screen.

(*1) These icons may not appear depending on the screen.

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Deleting photos

When you delete photos from the player, use the software you used to transfer the photos, or Windows Explorer.
For details about using the software, see the Help of the software.

Note
- The player itself cannot delete photos without connecting to a computer.

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Using the photo option menu

▼ Option item appearing on the photo folder/photo list screen
▼ Option items appearing on the photo display screen

You can bring up the photo option menu by pressing the OPTION/PWR OFF button on the photo folder list or photo list, or on the photo display screen. For details on how to use the option menu, see [Details].
The option items shown on the option menu vary depending on the screen from which you bring it up. See the reference page for settings and usage.

Option item appearing on the photo folder/photo list screen

Option items	Description/reference page
[Photo List Format]	Sets the photo list display format [Details].

Option items appearing on the photo display screen

Option items	Description/reference page
[Brightness]	Adjusts the brightness of the screen [Details].
[Detailed Information]	Displays file information, such as file size, resolution, and file name, etc.
[Set as Wallpaper]	Sets the currently displayed photo as the wallpaper [Details].

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Setting the photo list display format [Photo List Format]

The player offers 2 display formats: [Thumbnail + Title] (*1) or [Thumbnail Only].

1. From the Home menu, select ▇ [Settings] ➡ [Photo Settings] ➡ [Photo List Format] ➡ desired photo list format type.

Type	Description
[Thumbnail + Title]	Displays a photo title with a thumbnail image in the photo list.
[Thumbnail Only]	Displays only thumbnails in the photo list. (Default setting)

(*1) Thumbnail refers to a reduced size image of a photo.

Note
- Thumbnails may not be displayed, depending on the file format.

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Listening to FM radio [FM Radio]

1. From the Home menu, select ▦ [FM Radio].
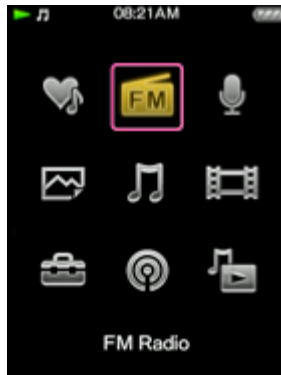
   The [FM Radio] screen appears.

2. Press the ▲ / ▼ button to select the desired frequency, or press the ◀ / ▶ button to select the desired preset number.
   The FM radio broadcasting of the selected frequency or preset number is received.
   - For details on how to operate the FM Radio screen, see [Details].

Note
- You cannot select a preset number if no preset station is stored. Preset receivable stations using [Auto Preset] [Details], or preset the receivable stations manually [Details].
- The headphone cord serves as an antenna, so extend it as far as possible.

Related Topics
Browsing and using the FM radio screen
Presetting broadcast stations automatically [Auto Preset]
Presetting broadcast stations manually [Save to Preset]
Deleting preset broadcast stations [Delete from Preset]
Using the FM radio option menu

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Browsing and using the FM radio screen

▼ Operations on the [FM Radio] screen
▼ Icon which appears by pressing the OPTION/PWR OFF button

1 Frequency
2 Preset number

Note
- Depending on the country/region in which you have purchased the player, the screen appearance may differ.

Operations on the [FM Radio] screen

To	Do this
Select the previous/next frequency	Press the ▲ / ▼ button.
Select the previous/next receivable station (*1)	Press and hold the ▲ / ▼ button.
Select the previous/next preset number (*2)	Press the ◄ / ► button.

(*1) If sensitivity is too high, change the [Scan Sensitivity] setting [Details] to [Low].

(*2) You cannot select a Preset number if no preset station is stored. Preset receivable stations using [Auto Preset] [Details].

Icon which appears by pressing the OPTION/PWR OFF button

Icon	Description
🗏 (Option Menu)	Shows the option menu. For details on the FM radio option menu, see [Details].

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Presetting broadcast stations automatically [Auto Preset]

You can preset (up to 30) receivable broadcast stations in your area automatically by selecting [Auto Preset]. When you use the FM radio for the first time, or when you move to a new area, we recommend you preset receivable broadcast stations by selecting [Auto Preset].

1. On the [FM Radio] screen, press the OPTION/PWR OFF button.
   The option menu appears.

2. Select [Auto Preset] ➡ [Yes].

   Receivable broadcast stations will be preset in order of frequency (low to high).
   [Auto Preset completed.] appears when presetting is completed, and the first preset station is received.
   - Select [No] to cancel automatic presetting.

Hint
- If high sensitivity causes the player to receive many unwanted broadcast stations, change the [Scan Sensitivity] setting [Details] to [Low].

Note
- The [Auto Preset] operation will delete already preset broadcast stations.
- If the alarm goes off during the [Auto Preset] operation, the operation will be canceled.

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Presetting broadcast stations manually [Save to Preset]

You can manually preset broadcast stations that [Auto Preset] cannot detect [Details].

1. On the [FM Radio] screen, select the desired frequency.

2. Press the OPTION/PWR OFF button to bring up the option menu.

3. Select [Save to Preset].
   The frequency you select in step **1** is preset and the assigned preset number appears below the frequency.

Hint
- You can preset up to 30 stations.

Note
- The preset numbers are stored in order, from low to high frequency.

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Deleting preset broadcast stations [Delete from Preset]

1. On the [FM Radio] screen, select the preset number you intend to delete.

2. Press the OPTION/PWR OFF button to bring up the option menu.

3. Select [Delete from Preset].
   The preset broadcast station is deleted.

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Using the FM radio option menu

You can bring up the FM radio option menu by pressing the OPTION/PWR OFF button on the [FM Radio] screen. For details on how to use the option menu, see [Details].
The option items shown on the option menu vary depending on the screen from which you bring it up. See the reference page for settings and usage.

Option items	Description/reference page
[Save to Preset]	Presets the currently tuned-in broadcast station [Details].
[Delete from Preset]	Deletes a broadcast station from a preset station [Details].
[Auto Preset]	Presets a broadcast stations automatically [Details].
[Scan Sensitivity]	Adjusts the sensitivity of radio reception [Details].
[Mono/Auto]	Changes to either monaural or stereo [Details].

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Setting the reception [Scan Sensitivity]

When you select stations using the [Auto Preset] function [Details] or the ▲ / ▼ button, the FM receiver may receive unwanted broadcast stations as a result of sensitivity being too high. In this case, set the reception to [Low]. [High] is set by default.

1. From the Home menu, select ▦ [Settings] ➜ [FM Radio Settings] ➜ [Scan Sensitivity] ➜ [Low].

  - To set the reception sensitivity back to the default, select [High].

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Setting monaural/stereo [Mono/Auto]

If noise occurs during FM reception, set the receiver to [Mono] for monaural. If you set it to [Auto], monaural/stereo reception is selected automatically, depending on reception conditions. [Auto] is set by default.

1. From the Home menu, select ▦ [Settings] ➜ [FM Radio Settings] ➜ [Mono/Auto] ➜ [Mono].
   - To return to automatic setting, select [Auto].

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Making voice recordings

You can record voice using the player's built-in microphone and play back the recorded voice files. Files are recorded in MP3 format.
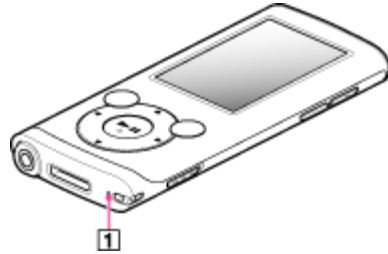
1️⃣   **Microphone**

Note
- If the [Set Date-Time] setting is not accurate, the date folder may not be named correctly. Set the current date and time before recording [Details].
- During recording, you cannot listen to sound from the headphones.

1. From the Home menu, select 🎤 [Voice Recording].
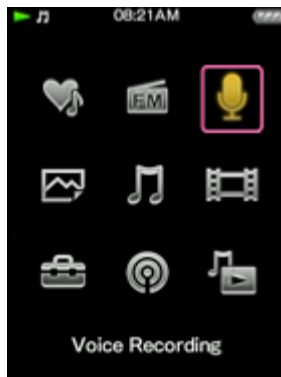
The [Voice Recording] screen appears and the player goes into record standby.

2. Press the ▶❚❚ button.

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Recording starts.

3. Press the ▶❚❚ button once more to stop recording.

- The recording is saved as a file "VR- nnn-hhmm" (*1) in the [RECORD] – [VOICE] – [yyyy-mm-dd] (*2) folder.

(*1) File names are automatically assigned to "VR -nnn-hhmm" (VR – serial number – hour and minutes).

(*2) Folder names are automatically assigned to "yyyy-mm-dd" (year – month – day). In the case of subsequent folders created on the same day, an attached folder number (2 to 999) is added after "dd" of the folder name.

[Voice Recording] screen
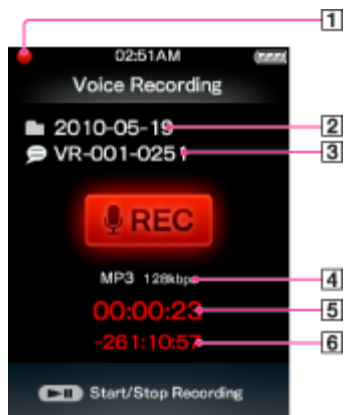
1 ● (during recording), ❚❚ (during record pause)

2 Folder name

3 File name

4 Codec/bit rate

5 Elapsed time

6 Available remained time
The available remained time does not appear if it is more than 1,000 hours.

Hint
- You can select the recording quality (bit rate) [Details].
- To record to a new folder, press the OPTION/PWR OFF button on the [Voice Recording] screen while recording is stopped, and then select [New Folder] from the option menu. The next recording is sent to the new folder.

Note
- If you rename files in the [RECORD] and [VOICE] folders on your computer, or put files which have been imported to your computer back into the [RECORD] and [VOICE] folders, they may become unplayable on the player.
- Up to 4,000 files of recorded voice can be recorded.
- For the maximum recordable number of voice recording files and folders, see[Details].

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Playing voice recordings

To play back recorded voice files, select 🎵 [Music] to display the [Music] screen [Details]. You can display the folder list in the [VOICE] folder.

1. From the Home menu, select 🎵 [Music] ➜ [Voice Recording] ➜ desired folder ➜ desired recorded voice file.
   The music playback screen appears and playback of the recorded voice file begins.
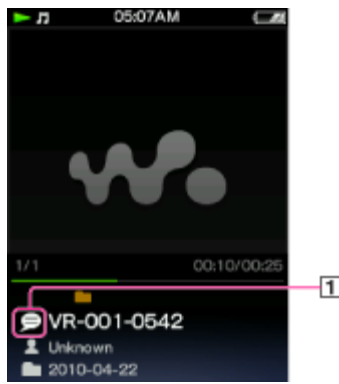
   1   **Recorded voice icon**

   - For details on how to operate the music playback screen, see [Details].

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Deleting recorded voice files

▼ Deleting a recorded voice file
▼ Deleting a recorded voice folder
▼ Deleting all recorded voice folders

You can delete recorded voice files on the player.

Deleting a recorded voice file

1. From the Home menu, select 🎵 [Music] ➜ [Voice Recording] ➜ desired folder ➜ desired voice file.

2. Press the OPTION/PWR OFF button to bring up the option menu.

3. Select [Delete This Song] ➜ [Yes].
   The selected voice file is deleted.
   ● Select [No] to cancel deletion.

or,

1. From the Home menu, select 🎵 [Music] ➜ [Voice Recording] ➜ desired folder.

2. Press the OPTION/PWR OFF button to bring up the option menu.

3. Select [Select a Song to Delete].

4. Press the ▲ / ▼ button to select the recorded voice you intend to delete, and then press the ▶II button.

5. Select [Yes].
   The selected voice file is deleted.
   ● Select [No] to cancel deletion.

Deleting a recorded voice folder

1. From the Home menu, select 🎵 [Music] ➜ [Voice Recording].

2. Press the OPTION/PWR OFF button to bring up the option menu.

3. Select [Select a Folder to Delete].

4. Press the ▲ / ▼ button to select the folder you intend to delete, and then press the ▶II button.

5. Select [Yes].
   The selected folder is deleted.
   ● Select [No] to cancel deletion.

Deleting all recorded voice folders

1. From the Home menu, select 🎵 [Music] ➜ [Voice Recording].

2. Press the OPTION/PWR OFF button to bring up the option menu.

3. Select [Delete All Folders] ➜ [Yes].

All the folders are deleted.

- Select [No] to cancel deletion.

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Using the voice recording option menu

▼ Option items appearing on the [Voice Recording] screen
▼ Option items appearing on the file list screen of recorded voice files
▼ Option items appearing on the folder list screen of recorded voice files
▼ Option items appearing on the music playback screen of recorded voice files

You can bring up the voice recording option menu by pressing the OPTION/PWR OFF button on the Voice Recording screen. You can also bring up the voice recording option menu from the folder/file list of recorded voices or the music playback screen of recorded voices. For how to use the option menu, see [Details].
The option items shown on the option menu vary depending on the screen from which you bring them up. See the reference page for settings and usage.

Option items appearing on the [Voice Recording] screen

Option items	Description/reference page
[New Folder]	Adds a new folder to the [VOICE] folder of the [RECORD] folder [Details].
[Bit Rate Settings]	Sets recording quality [Details].

Option items appearing on the file list screen of recorded voice files

Option items	Description/reference page
[Select a Song to Delete]	Selects a recorded voice file and deletes it [Details].

Option items appearing on the folder list screen of recorded voice files

Option items	Description/reference page
[Select a Folder to Delete]	Selects a folder of recorded voice files and deletes it [Details].
[Delete All Folders]	Deletes all folders of recorded voice files [Details].

Option items appearing on the music playback screen of recorded voice files

Option items	Description/reference page
[Play Mode]	Sets the play mode [Details].
[Playback Range]	Sets the playback range [Details].
[Karaoke/Language Study]	Sets the karaoke/language study mode [Details].
[DPC (Speed Control)]	Adjusts the playback speed of songs [Details].
[Display Lyrics]	Displays the lyrics of the playing song [Details].
[Equalizer]	Customizes the sound quality [Details].
[VPT(Surround)]	Customizes the [VPT(Surround)] settings [Details].
[Detailed Information]	Displays detailed information of a recorded voice file, such as playing time, audio format, bit rate, and file name.
[Set As Alarm Song]	Sets the playing song as the alarm song [Details].
[Delete This Song]	Deletes a recorded voice [Details].

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Selecting a level of recording quality [Bit Rate Settings]

You can select the bit rate for voice recording. High bit rate offers better sound quality, though requires more memory.

1. From the Home menu, select ▣ [Settings] ➡ [Recording Settings] ➡ [Bit Rate Settings] ➡ desired setting type.

Type	Description
[MP3 256kbps]	Records at the bit rate of 256 kbps.
[MP3 128kbps]	Records at the bit rate of 128 kbps. (Default setting)
[MP3 64kbps]	Records at the bit rate of 64 kbps.

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About the timer

▼ Using the alarm timer
▼ Using the sleep timer

You can set the timer to play back songs at a specified time (Alarm). You can also set the period of time after which the player automatically enters standby mode and the screen turns off (Sleep Timer).

Note
- If the [Set Date-Time] setting is not accurate, timer settings cannot be set correctly. Set the current date and time before setting the timer [Details].

Using the alarm timer

You can set the alarm timer to play back a selected song at a specified time as an alarm. To use the alarm timer, follow the instructions below. Click [Details] to see the detailed instructions for each operation.

1. Select a song as the alarm sound [Details].

2. Set the alarm time [Details].

3. If necessary, set the repeat setting [Details].

4. Set the alarm to on [Details].

5. When the alarm sounds, press the ▶❚❚ button to stop it.
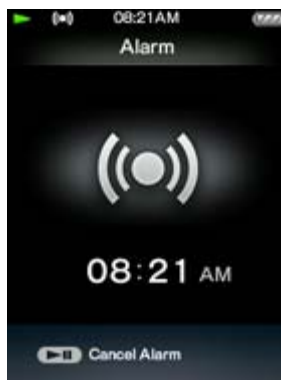
Note
- The alarm will automatically stop after 60 minutes.
- To prevent damage to the ears, the alarm volume of headphones is limited by the AVLS function regardless of whether [AVLS (Volume Limit)] is set to [On] or [Off] [Details]. The alarm volume of speakers is not limited.
- Do not fall asleep while wearing headphones. If you sleep wearing headphones, the headphone cord may wind around your neck, which may cause suffocation.
- In the following situations, the alarm will be postponed until the process is finished.
    - Deleting data.
    - Formatting memory.
- The alarm will not sound in the following situations.
    -

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- Recording voice (though the alarm icon flashes in the information area).
- Connected to a computer.

Using the sleep timer

You can also set the sleep timer to turn off the player automatically after a preset duration. For how to set the sleep timer, see [Details].

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Setting the alarm to on/off [Alarm On/Off]

1. From the Home menu, select [Settings] ➜ [Alarm/Sleep Timer] ➜ [Alarm Settings] ➜ [Alarm On/Off] ➜ desired setting type.

Type	Description
[On]	Set the alarm to on.
[Off]	Set the alarm to off. (Default setting)

Note
- When the alarm is set to on, appears in the information area.

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Setting the alarm time [Alarm Time]

1. From the Home menu, select 🧰 [Settings] ➡ [Alarm/Sleep Timer] ➡ [Alarm Settings] ➡ [Alarm Time]

2. Press the ◀ / ▶ button to select the hour, and then press the ▲ / ▼ button to change the value.

3. As in step **2**, adjust the minute setting.

4. Press the ▶ǁ button to confirm.

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Setting the repeat setting [Repeat]

You can set the alarm to sound only one time, everyday, from Monday to Friday, or from Monday to Saturday.

1. From the Home menu, select ▣ [Settings] ➡ [Alarm/Sleep Timer] ➡ [Alarm Settings] ➡ [Repeat] ➡ desired setting type.

Type	Description
[Off]	Sounds the alarm only one time. (Default setting)
[Every Day]	Sounds the alarm at the specified time every day.
[Mon - Fri]	Sounds the alarm at the specified time from Monday to Friday.
[Mon - Sat]	Sounds the alarm at the specified time from Monday to Saturday.

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Selecting the alarm sound [Alarm Sound Settings]

You can select a song as the alarm sound. When the alarm goes off, the selected song is repeatedly played back until you stop it.

1. From the Home menu, select ▦ [Settings] ➜ [Alarm/Sleep Timer] ➜ [Alarm Settings] ➜ [Alarm Sound Settings] ➜ desired setting type.

Type	Description
[Default Alarm Sound]	Produces a preset alarm sound when the alarm goes off. (Default setting)
[Alarm Song]	Plays back the selected song when the alarm goes off. For how to select the alarm song, see the following instructions.

Selecting the alarm song

1. From the Home menu, select 🎵 [Music] ➜ desired search method ➜ desired song.
2. Press the OPTION/PWR OFF button to bring up the option menu.
3. Select [Set As Alarm Song].

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Setting the sleep timer [Sleep Timer Settings]

You can set the period of time after which the player automatically enters standby mode and the screen turns off (Sleep Timer).

1. From the Home menu, select ▦ [Settings] ➜ [Alarm/Sleep Timer] ➜ [Sleep Timer Settings] ➜ desired setting type.

Type	Description
[Off]	Disables the sleep timer. (Default setting)
[After 30 Min]	Turns off the player after 30 minutes.
[After 60 Min]	Turns off the player after 60 minutes.
[After 90 Min]	Turns off the player after 90 minutes.
[After 120 Min]	Turns off the player after 120 minutes.

Hint
- After setting the sleep timer, ⏻ appears in the information area.

Note
- In the following situations, the sleep timer will be postponed until the process is finished.
  - Deleting data.
  - Formatting memory.
- The sleep timer will not activate in the following situations.
  - Recording voice.
  - Connected to a computer.
  - Using [Auto Preset] function of the FM radio.
  - Analyzing songs for "SensMe™ Channels."
  - Sounding the alarm.
- The sleep timer will be canceled in the following situations.
  - Entering standby mode.
  - Connecting the player to a computer.

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Displaying the player information [Unit Information]

Information such as model name, firmware version, etc., is displayed.

1. From the Home menu, select ▦ [Settings] ➡ [Common Settings] ➡ [Unit Information].

Item	Description
[Model:]	Displays the model name of the player.
[Firmware:]	Displays version information of the player's firmware.
[Free/Total Memory Space:]	Displays the available free space size/total capacity of the player.
[Total Songs:]	Displays the total number of songs (including audio podcasts and voice recordings) stored on the player.
[Total Videos:]	Displays the total number of videos (including video podcasts) stored on the player.
[Total Photos:]	Displays the total number of photos stored on the player.
[WM-PORT:]	Displays the version information for WM-PORT.

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Limiting the volume [AVLS (Volume Limit)]

You can set [AVLS (Volume Limit)] (Automatic Volume Limiter System) to limit the maximum volume to prevent auditory issues or distraction. With [AVLS (Volume Limit)], you can listen to music at a comfortable volume level.

1. From the Home menu, select [Settings] ➜ [Common Settings] ➜ [AVLS (Volume Limit)] ➜ desired setting type.

Type	Description
[On]	Maintains a moderate volume level.
[Off]	Plays back audio at the original volume. (Default setting)

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Turning off the beep sound [Beep Settings]

You can turn on or off the operation sounds of the player.

1. From the Home menu, select ▦ [Settings] ➜ [Common Settings] ➜ [Beep Settings] ➜ desired setting type.

Type	Description
[On]	Produces beep sounds. (Default setting)
[Off]	Does not produce beep sounds.

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Setting the screensaver [Screensaver Settings]

▼ Setting the screensaver to on/off
▼ Setting the screensaver type
▼ Setting the screensaver waiting time

When there is no operation for a while, the player starts the screensaver. You can set the screensaver either to simply blank the screen or to display the slide show of photos in the player. You can also set the waiting time for starting the screensaver.

Setting the screensaver to on/off

1. From the Home menu, select [Settings] ➔ [Common Settings] ➔ [Screensaver] ➔ [On/Off] ➔ desired setting type.

Type	Description
[On]	Runs the screensaver when there is no operation for specific period of time. (Default setting)
[Off]	Does not run the screensaver.

Setting the screensaver type

1. From the Home menu, select [Settings] ➔ [Common Settings] ➔ [Screensaver] ➔ [Type] ➔ desired setting type.

Type	Description
[Blank]	Blanks the screen. (Default setting)
[Slide Show]	Displays the slide show when the player is connected to the AC outlet. Set the slide show setting as follow. (*1)

(*1) The slide show is displayed only when the player is connected to an AC outlet and there are photos to be displayed for the slide show. If the player is working from the battery, the screensaver blanks the screen regardless of the setting. When fully charged, if no songs are playing back, the slide show will stop. If there are no photos to be displayed for the slide show, the screensaver dims the screen.

Setting the slide show setting

When you select [Slide Show], the [Slide Show] screen appears to set the slide show setting. Select the desired setting type.

Type	Description
[All Photos (VERT)]	Displays a slide show of all pictures in the player, in portrait orientation.
[All Photos	

(HORZ)]	Displays a slide show of all pictures in the player, in landscape orientation.
[Folder (VERT)]	Displays a slide show of pictures in the [SCREENSAVER] folder in the [PICTURE] folder, in portrait orientation. (Default setting)
[Folder (HORZ)]	Displays a slide show of pictures in the [SCREENSAVER] folder in the [PICTURE] folder, in landscape orientation.

Setting the screensaver waiting time

1. From the Home menu, select 🗄 [Settings] ➜ [Common Settings] ➜ [Screensaver] ➜ [Delay] ➜ desired setting type.

Type	Description
[15 Sec]	Displays the screensaver when there is no operation for 15 seconds.
[30 Sec]	Displays the screensaver when there is no operation for 30 seconds. (Default setting)
[1 Min]	Displays the screensaver when there is no operation for 1 minute.
[3 Min]	Displays the screensaver when there is no operation for 3 minutes.
[5 Min]	Displays the screensaver when there is no operation for 5 minutes.
[30 Min]	Displays the screensaver when there is no operation for 30 minutes.

Note
- The player does not display the screensaver during the following situations.
  - Playing back a video.
  - Playing back a video podcast.
  - Playing back a song with [Display Lyrics] set to [On (No Screen Off)].
  - Playing back a song with [Karaoke/Language Study] set to either [Maximum Karaoke Mode] or [Minimum Karaoke Mode].
  - Displaying the [Voice Recording] screen. (The screen will dim regardless of the screensaver settings.)
  - Searching for a receivable FM radio station and using the [Auto Preset] function of the FM radio.
  - Connected to a computer. (The screen will dim instead of run the screensaver. After fully charged, the screen will be turned off after a while regardless of the screensaver settings.)
  - Building or recovering the database.
  - Analyzing songs for "SensMe™ Channels." (The screen will dim instead of run the screensaver.)
  - Sounding the alarm.
  - Charging the battery with [Type] set to [Blank]. (The screen will dim instead of run the screensaver.)

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Adjusting the brightness of the screen [Brightness]

You can set the display brightness to one of 5 levels.

1. From the Home menu, select ⬛ [Settings] ➥ [Common Settings] ➥ [Brightness].

2. Press the ◀ / ▶ button to select the desired setting, and then press the ▶❙❙ button to confirm.
   You can adjust to any of 5 levels. The larger the number, the brighter the screen. [3] is set by default.

Note
- After selecting a setting value, be sure to press the ▶❙❙ button to confirm. If you press the BACK/HOME button before confirming, the setting will be canceled.

Hint
- If you set the brightness of the screen to a lower level, the battery will last longer [Details].
- While the player is connected via the USB cable, the brightness of the screen may be set to a lower level regardless of the setting.

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Setting up wallpaper [Wallpaper Settings]

▼ To set a desired photo as the wallpaper

You can set the wallpaper of the screen.

1. From the Home menu, select 🧰 [Settings] ➜ [Common Settings] ➜ [Wallpaper Settings] ➜ desired wallpaper type.

Type	Description
[No Wallpaper]	Displays the default wallpaper. (Default setting)
[User's Wallpaper]	Displays the photo set as the wallpaper. (See the following instructions.)
[User's W.p.(dark)]	Displays the photo set as the wallpaper. (See the following instructions.) This option reduces the brightness of the photo so that you can easily recognize menu items or icons.

To set a desired photo as the wallpaper

You need to designate a photo on the player before selecting [User's Wallpaper] or [User's W.p.(dark)] to set the photo as the wallpaper.

1. From the Home menu, select 🖼 [Photos] ➜ desired search method ➜ desired photo.

2. Press the OPTION/PWR OFF button to bring up the option menu.

3. Select [Set as Wallpaper].

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Setting the current time [Set Date-Time]

You can set the date and time.

1. From the Home menu, select [Settings] ➜ [Common Settings] ➜ [Clock Settings] ➜ [Set Date-Time].

2. Press the ◀ / ▶ button to select the year, and then press the ▲ / ▼ button to change the value.

3. As in step **2**, adjust the settings for month, date, hour, and minutes, and then press the ▶II button to confirm.

Hint
- You can select the date format from [YYYY/MM/DD], [MM/DD/YYYY], or [DD/MM/YYYY] [Details]. Furthermore, you can select the time format from either [12-hour] or [24-hour] [Details].

Note
- If battery power is used up because, for example, the player has not been used for a long time, your settings for date and time may be lost, and "-" will be displayed instead of the current date and time.
- The clock may gain or lose up to 60 seconds per month. In this case, set the clock again.

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Setting the date format [Date Display Format]

You can set the date format displayed for the current date [Details] as [YYYY/MM/DD], [MM/DD/YYYY], or [DD/MM/YYYY].

1. From the Home menu, select 🧰 [Settings] ➔ [Common Settings] ➔ [Clock Settings] ➔ [Date Display Format] ➔ desired format type.

Type	Description
[YYYY/MM/DD]	Displays the date as year/month/day.
[MM/DD/YYYY]	Displays the date as month/day/year.
[DD/MM/YYYY]	Displays the date as day/month/year.

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Setting the time format [Time Display Format]

You can select the format to display the current time [Details] from either a [12-hour] or [24-hour] display.

1. From the Home menu, select 🧰 [Settings] ➜ [Common Settings] ➜ [Clock Settings] ➜ [Time Display Format] ➜ desired format type.

Type	Description
[12-hour]	Displays the current time in the 12-hour format.
[24-hour]	Displays the current time in the 24-hour format.

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Limiting the charge amount [Battery Care]

Charge and discharge cycles cause the capacity of the lithium-ion battery to decrease, resulting in shortening the battery life. You can use the [Battery Care] mode to reduce the capacity decrement caused by charge and discharge cycles, i.e., prevent shortening the battery life.

1. From the Home menu, select [Settings] ➜ [Common Settings] ➜ [Battery Care] ➜ desired setting type.

Type	Description
[On]	Uses the [Battery Care] mode.
[Off]	Uses the normal recharge mode. (Default setting)

Note
- When [Battery Care] is set to [On], the maximum recharge capacity is limited to 90%. As a result, the battery life between charges is shortened by about 10%.
- In the [Battery Care] mode, the first bar of the battery indicator will disappear somewhat quicker than normal. This is a result of stopping recharging the battery before becoming fully charged (in order to extend the battery lifespan) and is not a malfunction.

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Returning to the factory settings [Reset All Settings]

You can reset the player to the default settings. Resetting the player will not delete data such as music, video, and photos.

> **Note**
> - If you select this function during playback, the player will pause playback before performing the reset process.

1. From the Home menu, select [Settings] ➡ [Common Settings] ➡ [Reset/Format] ➡ [Reset All Settings] ➡ [Yes].
   [Restored factory settings.] appears.
   - To cancel the operation, select [No] on the confirmation screen.

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Formatting memory [Format]

You can format the built-in flash memory of the player.

Note
- If the memory is formatted, all data (songs, videos, photos, etc., including sample data installed at the factory, bundled software installer, and the User Guide) will be erased. Be sure to verify the data stored in memory prior to formatting, and export any important data to the hard disk of your computer.
- Be sure not to initialize (format) the built-in flash memory of the player using Windows Explorer. If you have formatted with Windows Explorer, format again using the player.

1. From the Home menu, select 🧰 [Settings] ➔ [Common Settings] ➔ [Reset/Format] ➔ [Format].
   [All data including songs will be deleted. Proceed?] appears.

2. Select [Yes].
   [All data will be deleted. Proceed?] appears.
   - To cancel the operation, select [No].

3. Select [Yes].
   When initialization finishes, [Memory formatted.] appears.
   - To cancel the operation, select [No].

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Using USB connection mode [USB Connection Mode]

When connecting to a computer by the USB cable, some computers may fail to establish USB connection with the player, causing the player to not display [Connecting].
In such a case, before connecting, display the USB connection standby screen to allow the player to focus on establishing USB connection with more reliability.

1. From the Home menu, select 🧰 [Settings] ➜ [Common Settings] ➜ [USB Connection Mode].
   [Use when USB connection cannot be established. Use this mode?] appears.

2. Select [Yes].
   The player enters USB connection standby mode, displaying the USB connection standby screen. After connecting to a computer with the USB cable, [Connecting] appears.

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Selecting the display language [Language Settings]

You can select from a variety of languages for menus and messages.

1. From the Home menu, select 🧰 [Settings] ➡ [Language Settings] ➡ desired language setting.

Language	Messages and menus are displayed in
[Deutsch]	German
[English]	English
[Español]	Spanish
[Français]	French
[Italiano]	Italian
[Polski]	Polish
[Português]	Portuguese
[Русский]	Russian
[Türkçe]	Turkish
[日本語]	Japanese
[한국어]	Korean
[简体中文]	Simplified Chinese
[繁體中文]	Traditional Chinese

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Setting the play mode [Play Mode]

The player offers a variety of play modes, including random play and selected repeat play.

1. From the Home menu, select [Settings] ➡ [Music Settings] ➡ [Play Mode] ➡ desired play mode type.

Type - icon	Description
[Normal] - No icon	The songs within the playback range are played back in the song list order. (Default setting)
[Repeat] -	The songs within the playback range are played back in the song list order and then repeated.
[Shuffle] - SHUF (*1)	The songs within the playback range are played back in random order.
[Shuffle&Repeat] - SHUF (*1)	The songs within the playback range are played back in random order and then repeated.
[Repeat 1 Song] - 1	The current song or the song selected from a song list is played back repeatedly.

(*1) When [Play Mode] is set to [Shuffle] or [Shuffle&Repeat] and [Playback Range] is set to [All Range], the player will not shuffle all songs at once. Instead, the player will select an artist, album, etc. one by one and play their songs in random order. For example, if you select [Album] in the [Music] screen and select a song in an album, the player will play selected album's songs in random order, then select the next album in the album list to play its songs in random order, and continue in such a manner. However, [All Songs] and bookmark lists are exceptions. If you start from [All Songs], the player will shuffle all songs at once. If you start from a bookmark list, the selected bookmark list only will be played back and the others will not be played back.

Note
- Songs to be played back differ depending on the [Playback Range] settings [Details].

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Setting the playback range [Playback Range]

You can set the playback range of songs.

1. From the Home menu, select [Settings] ➜ [Music Settings] ➜ [Playback Range] ➜ desired playback range type.

Type - icon	Description
[All Range] - No icon	Plays back all the songs in all the lists of the selected search method. For example, if you start playback from an album list, all the albums in the player are played back.
[Selected Range] - ■	Plays back songs only in the lists from which playback starts. (Default settings) For example, if you start playback from an album list, the songs in that album only are played back.

Note

- If you start playback from a bookmark list, the songs in that bookmark list only are played back and songs in other bookmark lists are not played back even if [Playback Range] is set to [All Range].

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Setting the sound quality (CLEAR BASS) [Equalizer]

▼ Setting the sound quality
▼ Customizing sound quality

You can set the sound quality according to the music genre, etc.
Equalizer settings contain the CLEAR BASS setting. Increasing the CLEAR BASS setting value allows the player to reproduce dynamic deep bass without distortion, even at a high volume.

Setting the sound quality

1. From the Home menu, select 🧰 [Settings] ➜ [Music Settings] ➜ [Equalizer] ➜ desired equalizer type.

Type - icon	Description
[None] - No icon	Sound quality setting is not activated. (Default setting) (*1)
[Heavy] - ᴴ	Emphasizes high and low ranges for a powerful sound.
[Pop] - ᴾ	Stresses the middle range audio, ideal for vocals.
[Jazz] - ᴶ	Emphasizes high and low ranges for a lively sound.
[Unique] - ᵁ	Emphasizes high and low ranges, so that even soft sounds can be heard easily.
[Custom 1] - 1	User-customizable sound settings for which you can adjust each frequency range individually. See [Details] for details.
[Custom 2] - 2	

(*1) The default setting of players sold in the Latin America region is [Custom 1], and CLEAR BASS is set to level +3.

Note
- If your personal settings saved as [Custom 1] and [Custom 2] seem to produce a different volume level than other settings, you may have to adjust the volume manually to compensate.
- The [Equalizer] setting is not applied while playing a video, FM radio or video podcast.

Customizing sound quality

You can preset the value of CLEAR BASS (bass) and 5 band Equalizer as [Custom 1] or [Custom 2].

1. From the Home menu, select 🧰 [Settings] ➜ [Music Settings] ➜ [Equalizer] ➜ [Custom 1] or [Custom 2].

2. Press the ◀ / ▶ button to select CLEAR BASS or the frequency range setting, and press the ▲ / ▼ button to adjust the setting level, and then press the ▶❚❚ button to confirm. The [Music Settings] screen reappears.

- CLEAR BASS can be set to any of 4 sound levels, and the 5 frequency ranges can be set to any of 7 sound levels.
- After you have adjusted the setting level, be sure to press the ▶❚❚ button to confirm. If you press the BACK/HOME button before you confirm, the setting will be canceled.

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Customizing the surround sound [VPT(Surround)]

You can customize the surround sound by using the VPT (*1) (Surround) function to enrich the sound reproduction quality of the audio playback. The sense of realism is increasingly enhanced in the order of [Studio] ➜ [Live] ➜ [Club] ➜ [Arena] (most enhanced).

1. From the Home menu, select [Settings] ➜ [Music Settings] ➜ [VPT(Surround)] ➜ desired VPT (Surround) type.

Type - icon	Description
[None] - No icon	[VPT(Surround)] setting is not activated. (Default setting)
[Studio] - S	Creates the sound of a recording studio.
[Live] - L	Creates the sound of a concert hall.
[Club] - C	Creates the sound of a club.
[Arena] - A	Creates the sound of an arena.
[Matrix] - M	Reproduces an additional surround effect, and creates a natural, yet richly enhanced sound.

(*1) VPT, which stands for Virtualphones Technology, is a proprietary sound processing technology developed by Sony.

Note
- The [VPT(Surround)] setting is not applied while playing a video, FM radio or video podcast.

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Listening with DSEE (Sound Enhance) [DSEE(Sound Enhance)]

By activating the [DSEE(Sound Enhance)] (*1) feature, you can hear a rich and natural sound almost exactly like the original source.

1. From the Home menu, select ⬚ [Settings] ➔ [Music Settings] ➔ [DSEE(Sound Enhance)] ➔ desired DSEE (Sound Enhance) type.

Type	Description
[On]	Activates the [DSEE(Sound Enhance)] (*1) function, and plays back naturally extended sound, close to the original sound.
[Off]	Disables the [DSEE(Sound Enhance)] function and plays back sound normally. (Default setting)

(*1) DSEE, which stands for Digital Sound Enhancement Engine, is a technology developed by Sony, to enhance the sound quality of compressed audio files by restoring high-range sound removed by the compression process.

Note
- The [DSEE(Sound Enhance)] setting is not applied while playing a video, FM radio or video podcast.
- The [DSEE(Sound Enhance)] function is not effective for songs of a file format that is not compressed, or songs that are of a high bit rate with no treble loss.
- In the case of songs of very low bit rate, the [DSEE(Sound Enhance)] function will not be effective.

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Listening with Clear Stereo [Clear Stereo]

[Clear Stereo] enables individual left and right digital processing of the sound.

1. From the Home menu, select 🧰 [Settings] ➡ [Music Settings] ➡ [Clear Stereo] ➡ desired Clear Stereo type.

Type	Description
[On]	Activates the [Clear Stereo] function when you use the supplied headphones.
[Off]	Disables the [Clear Stereo] function and plays back normal sound. (Default setting)

Note
- The [Clear Stereo] setting is not applied while playing a video, FM radio or video podcast.
- The [Clear Stereo] function is designed to obtain maximum effect with the supplied headphones. The [Clear Stereo] effect may not be obtained with other headphones. When using other headphones, set [Clear Stereo] to [Off].

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Adjusting the volume level [Dynamic Normalizer]

You can reduce the volume level between songs. With this setting, when listening to album songs in the shuffle play mode, the volume level between songs is moderated to minimize differences in their recording levels.

1. From the Home menu, select ▦ [Settings] ➜ [Music Settings] ➜ [Dynamic Normalizer]
   ➜ desired Dynamic Normalizer type.

Type	Description
[On]	Minimizes the difference in volume level between songs.
[Off]	Plays back songs at their original transferred volume level. (Default setting)

Note
- The [Dynamic Normalizer] setting is not applied while playing a video, FM radio or video podcast.

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Changing the default bookmark list [Default Bookmark List]

You can change the default bookmark list, to which you can add a song when you press and hold the ▶❚❚ button in the music playback screen or song list screen.

1. From the Home menu, select ▦ [Settings] ➜ [Music Settings] ➜ [Default Bookmark List] ➜ desired bookmark list.

Item	Description
[Bookmark List 1]	Selects [Bookmark List 1] as the default book mark list to which a song will be added when you press and hold the ▶❚❚ button. (Default setting)
[Bookmark List 2]	Selects [Bookmark List 2] as the default book mark list to which a song will be added when you press and hold the ▶❚❚ button.
[Bookmark List 3]	Selects [Bookmark List 3] as the default book mark list to which a song will be added when you press and hold the ▶❚❚ button.
[Bookmark List 4]	Selects [Bookmark List 4] as the default book mark list to which a song will be added when you press and hold the ▶❚❚ button.
[Bookmark List 5]	Selects [Bookmark List 5] as the default book mark list to which a song will be added when you press and hold the ▶❚❚ button.

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Selecting the album display format [Album Display Format]

You can select the album display format.

1. From the Home menu, select 🧰 [Settings] ➜ [Music Settings] ➜ [Album Display Format] ➜ desired Album Display Format type.

Type	[Title & Cover Art] (Default setting)	[Cover Art Only]
Screen		

Hint

- Cover art will not appear if there is no cover art information for the album. You can set cover art using Windows Media Player. For details on operation, refer to the Help of Windows Media Player. Note that the player will not display cover art attached to playlists.

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Displaying lyrics [Display Lyrics]

You can display song lyrics when there is an LRC file for the song in the player. The LRC file must have the same file name as the song file, with extension ".lrc" (for example, "abc.lrc" for a song file "abc.mp3"). Place the LRC file in the same folder as the song file. The player synchronizes song lyrics with song playback. For how to create LRC files, see [Details].

Note
- Some LRC files may not be playable on the player depending on the file format.

1. From the Home menu, select [Settings] ➜ [Music Settings] ➜ [Display Lyrics] ➜ desired display type.

Type	Description
[On]	Displays lyrics if the playing song has an LRC file. (Default setting)
[On (No Screen Off)]	Displays lyrics if the playing song has an LRC file. The player will not turn off the screen or run the screensaver during song playback regardless of whether an LRC file for the current song exists or not.
[Off]	Does not display lyrics. (*1)

(*1) When [Karaoke/Language Study] is set to [Maximum Karaoke Mode] or [Minimum Karaoke Mode], lyrics will be displayed regardless of this setting [Details].

Music playback screen while displaying lyrics

1 Lyrics
2 Lyrics icon

Note
- If lyrics are not displayed properly, save the LRC file in the UTF-8 encoding and transfer it again to the player.
- The player can display up to 1,024 lines of lyrics for each song.
- Playback and lyrics may become slightly out of sync.
- You cannot display lyrics on the audio podcast playback screen [Details].
- When set to [On], the screen turns off or changes to slide show when there is no operation for the time set in [Delay] [Details].

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How to create LRC files

▼ Notes on creating LRC files

1. Prepare an audio file for which you intend to display lyrics during playback.

2. Open Notepad.
Click [start] ➜ [All programs] ➜ [Accessories] ➜ [Notepad] to open it.

3. Type lyrics text into Notepad.
  ● The screen images are of Windows Vista.

4. Play back the audio file to check the time [minutes:seconds:hundredths of a second] for displaying each text line, then enter the time information to the left of the text line.

  ● **Examples:**

[1] Time information

[mm:ss:xx] where mm means minutes, ss means seconds, and xx means hundredths of a second. Enter mm, ss and xx in two digits. Use a colon to separate values.

[2] Lyric text line

The player recognizes up to 95 characters to display the text line on the screen. If a text line cannot fit in the screen, it will be wrapped (up to 3 lines). Characters beyond 3 lines will not be displayed.

[00:01.90]Let's go

You can separate seconds and hundredths of a second by a period instead of a colon.

[00:02]Let's go

You can omit hundredths of a second.

5. After finishing lyrics text input, save it as a file.

   Select [File] → [Save As…] to open the [Save As] screen. Select [All Files] in the [Save as type:] list at the bottom of the screen. Select [UTF-8] in the [Encode:] list. Enter the file name into the [File name:] text box. The file name must be the same as the audio file, with extension ".lrc". Click [Save] to save the LRC file.

[1] **[File name:]**

Enter the same file name as the audio file, with extension ".lrc" (for example, "abc.lrc" for an audio file "abc.mp3").

[2] **[Save as type:]**

Select [All Files] in the [Save as type:] list.

[3] **[Save]**

[4] **[Encoding:]**

Select [UTF-8] in the [Encode:] list.

The maximum size of LRC files is 512 KB.

6. Create a new folder in the [MUSIC] folder of the player, then drag and drop both the audio file and LRC file into the new folder to transfer them.

7. From the Home menu of the player, select ♫ [Music] → desired search method → transferred song.

8. Press the OPTION/PWR OFF button to bring up the option menu, then select [Display Lyrics] → [On] or [On (No Screen Off)].

   The lyrics are displayed on the screen, synchronizing with audio playback.

Lyrics display on the player

Notes on creating LRC files

- The text encoding of LRC files must be UTF-8.
- An LRC file must have the same file name as the audio file, with extension ".lrc". Otherwise, the player cannot recognize the LRC file.
- The maximum size of LRC files is 512 KB.

Notes on lyrics text

- A character string that follows time information at the beginning of the text line is recognized as a lyric text line.
- Space characters (both 1-byte and 2-byte) immediately following time information will be ignored.
- Maximum number of displayable characters for each lyric text line
  - The player recognizes up to 95 characters to display the text line on the screen. Characters beyond this limitation are not displayed.
  - If a text line cannot fit in the screen, it will be wrapped (up to 3 lines). Characters beyond 3 lines will not be displayed.
- The player can display up to 1,024 lines of lyrics for each song.

Notes on new line control characters

- Any CR, CRLF and LF is recognized properly.
- A text line that contains only a new line is skipped.

Notes on LRC file format

- Time information must be at the beginning of a text line. Otherwise, it will be ignored and the number of displayable character may decrease.
- Time information must be entered in chronological order. If a line's time information is chronologically equal or before the previous line, the line will be skipped. In this case, text lines will also be skipped until a text line with time information that follows chronologically the last accepted line.
- A text line that contains time information only is displayed as a blank line (treated as a text that contains no characters).
- The player supports only lyrics display and does not support other information of LRC file format.

Copyright notice

When creating LRC files using copyrighted materials authored by others, created LRC files are limited to private use only. Use of LRC files beyond this limitation requires permission of the copyright holders.

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Optimizing the quality of the sound output from the speakers [SP Output Optimizer]

The player is equipped with the Digital Linear Phase Speaker feature to optimize the quality of sound from the speakers.
The Digital Linear Phase Speaker feature achieves a precise localization of sounds by improving the frequency-amplitude and phase characteristics.

Note
- This function is effective for the supplied speakers only. If your player is not supplied with speakers, set [SP Output Optimizer] to [Off].
- Speaker bundled model is not available in some countries/regions.

1. From the Home menu, select [Settings] ➔ [Music Settings] ➔ [SP Output Optimizer] ➔ desired setting type.

Type	Description
[SRS-NWGT015]	Activates the [SP Output Optimizer] function when sounds output from the speakers. The sound is optimized for SRS-NWGT015.
[Off]	Disables the [SP Output Optimizer] function and outputs normal sound from the speakers.

Note
- [SP Output Optimizer] is not applied to the sound output from the headphones.
- [SP Output Optimizer] is effective for music, audio podcast and "SensMe™ Channels" only. This function is not applied while playing a video, FM radio, or video podcast.

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Setting the zoom function [Zoom Settings]

You can zoom in the currently playing video.

1. From the Home menu, select [Settings] ➜ [Video Settings] ➜ [Zoom Settings] ➜ desired zoom setting type.

Type	Description
[Auto]	The video image is resized to fit the display area, maintaining the original aspect ratio (Default setting). When a 16:9 (wide size) video image is displayed, black bands appear on the top and bottom of the screen. [1] 16:9 source [2] 4:3 source
[Full]	The video image is resized to fill the available display area, maintaining the aspect ratio. When a 16:9 (wide size) video image is displayed, the right/left sides of the image are trimmed to fit. [1] 16:9 source The dotted line frame represents the original video image size. [2] 4:3 source
[Off]	The video image is not resized, and appears in the original resolution. If video resolution is too high, the left, right, top and bottom of the screen will be cut. If video resolution is too low, black bars will appear on the right, left, top and bottom of the screen.

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Playing only video sound [On-Hold Display]

You can set to turn off the video screen while the player is on hold, allowing you to enjoy video sound only.
Setting this option to [No] saves battery power for longer battery life.

1. From the Home menu, select ▦ [Settings] ➜ [Video Settings] ➜ [On-Hold Display] ➜ desired On-Hold Display setting type.

Type	Description
[Yes]	When the player is on hold, the buttons are deactivated, but videos will be played back normally. (Default setting)
[No]	When the player is on hold, the buttons are deactivated and the screen turns off, but the sound of the current video is played back.

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Arranging the video list [Order of Video List]

Arranges the video list by date or by title.

1. From the Home menu, select ▤ [Settings] ➡ [Video Settings] ➡ [Order of Video List]
   ➡ desired order of video list type.

Type	Description
[Date/Time (Oldest)]	Arranges the video list by transfer/record date in ascending order.
[Date/Time (Newest)]	Arranges the video list by transfer/record date in descending order. (Default setting)
[Title (A>Z)]	Arranges the video list by title in ascending order.
[Title (Z>A)]	Arranges the video list by title in descending order.

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Setting the photo list display format [Photo List Format]

The player offers 2 display formats: [Thumbnail + Title] (*1) or [Thumbnail Only].

1. From the Home menu, select [Settings] ➡ [Photo Settings] ➡ [Photo List Format] ➡ desired photo list format type.

Type	Description
[Thumbnail + Title]	Displays a photo title with a thumbnail image in the photo list.
[Thumbnail Only]	Displays only thumbnails in the photo list. (Default setting)

(*1) Thumbnail refers to a reduced size image of a photo.

Note
- Thumbnails may not be displayed, depending on the file format.

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Setting the reception [Scan Sensitivity]

When you select stations using the [Auto Preset] function [Details] or the ▲ / ▼ button, the FM receiver may receive unwanted broadcast stations as a result of sensitivity being too high. In this case, set the reception to [Low]. [High] is set by default.

1. From the Home menu, select ▤ [Settings] ➜ [FM Radio Settings] ➜ [Scan Sensitivity] ➜ [Low].

   - To set the reception sensitivity back to the default, select [High].

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Setting monaural/stereo [Mono/Auto]

If noise occurs during FM reception, set the receiver to [Mono] for monaural. If you set it to [Auto], monaural/stereo reception is selected automatically, depending on reception conditions. [Auto] is set by default.

1. From the Home menu, select ▩ [Settings] ➜ [FM Radio Settings] ➜ [Mono/Auto] ➜ [Mono].
   - To return to automatic setting, select [Auto].

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Selecting a level of recording quality [Bit Rate Settings]

You can select the bit rate for voice recording. High bit rate offers better sound quality, though requires more memory.

1. From the Home menu, select [Settings] ➔ [Recording Settings] ➔ [Bit Rate Settings] ➔ desired setting type.

Type	Description
[MP3 256kbps]	Records at the bit rate of 256 kbps.
[MP3 128kbps]	Records at the bit rate of 128 kbps. (Default setting)
[MP3 64kbps]	Records at the bit rate of 64 kbps.

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What can I do to solve a problem?

If the player does not function as expected, try the following steps to resolve the issue.

1. Find the symptoms of the issue in this manual, and try any corrective actions listed.

2. Connect the player to your computer to charge the battery.
   You may be able to resolve some issues by charging the battery [Details].

3. Press the RESET button with a small pin, etc.
   If you press the RESET button while operating the player, stored data and player settings may be lost.

4. Check information on the issue in the Help of each software.

5. Look up information on the issue on one of the customer support Web sites [Details].

6. If the approaches listed above fail to resolve the issue, consult your nearest Sony dealer.

Note
- No data will be deleted and no settings will be changed by resetting the player.

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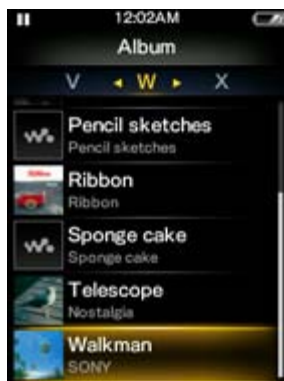- ‣ Important Information
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Customer support Web site

If you have any questions or issues with this product, or would like information on compatible items with this product, visit the following Web sites.

For customers in the USA:
http://www.sony.com/walkmansupport

For customers in Canada:
http://www.sony.ca/ElectronicsSupport/

For customers in Europe:
http://support.sony-europe.com/DNA

For customers in Latin America:
http://www.sony-latin.com/index.crp

For customers in other countries/regions:
http://www.sony-asia.com/support

For customers who purchased the overseas models:
http://www.sony.co.jp/overseas/support/

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Table of contents for symptoms and possible causes

The following topics show possible causes and remedies for symptoms. See an appropriate topic according to your problem.

- Operation
- Display
- Power
- Connection to a computer
- "SensMe™ Channels"
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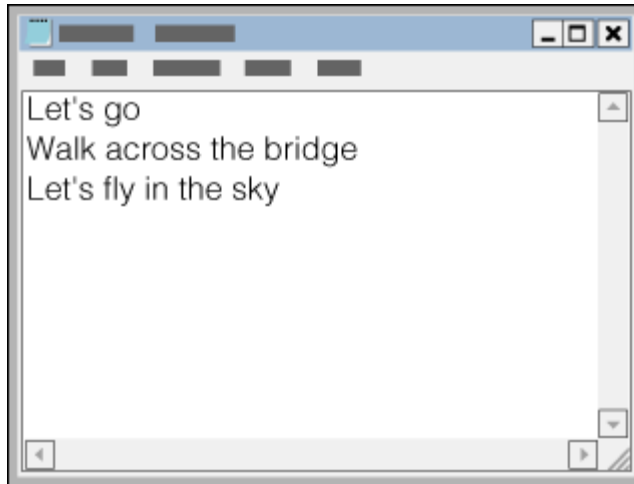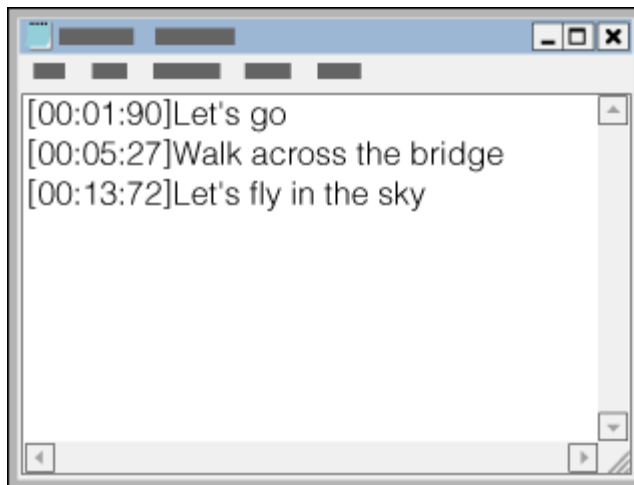- ▸ Important Information
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Operation

There is no sound.

- The volume level is set to zero.
  - → Turn the volume up.

- The headphone plug is not connected properly.
  - → If the headphones are connected improperly, the sound from the headphones will be impaired. Insert the headphone plug until it clicks into place [Details].

- The headphone plug is dirty.
  - → Clean the headphone plug with a soft dry cloth.

- After prescribing the remedies above, if the problem still persists, press the RESET button of the player [Details].

Data cannot be played.

- The battery is consumed.
  - → Charge the battery fully [Details].
  - → If the player does not react, even after charging the battery, press the RESET button to reset the player [Details].

- After transferring by drag-and-drop in Windows Explorer, data hierarchy levels do not correspond to the player.
  - → Place the data in the correct place by drag-and-drop [Details].

- Transferred files are not in a playable format.
  - → For information on the playable formats, see [Details]. Some files may not be played back, depending on certain file specifications.

- You are placing audio MP4 files in a video folder by drag-and-drop.
  - → Place them in the [MUSIC] folder by drag-and-drop.

- The playback limitation period of the song has expired due to subscription conditions, etc.
  - → Songs with an expired playback limitation period cannot be played back. Update them using the software used for transferring.

Songs or photos cannot be deleted on the player.

- You cannot delete songs or photos on the player.
  - → Delete them using the software you used to transfer the data, or Windows Explorer.

Transferred data is not displayed in its list.

- Videos and photos in unsupported format may not be recognized by the player and may not appear in a list [Details].

- If you rename a video file that is transferred from a computer to the player, or move it to another folder, it may not be recognized by the player and may not appear in a video list.

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- Data was placed in the wrong location by drag-and-drop.
  - → Place the data in the correct place by drag-and-drop [Details].
- The built-in flash memory of the player was formatted using Windows Explorer.
  - → Format the built-in flash memory on the player [Details].
- The USB cable (supplied) was disconnected from the player while data was being transferred.
  - → Transfer usable files back to your computer and format the built-in flash memory on the player [Details].

When [All Songs] or [Album] is selected, all the songs will appear, but some songs do not appear when [Folder] is selected.

- The audio files are not in folders under the [MUSIC] folder.
  - → Place them in folders under the [MUSIC] folder by drag-and-drop.

Songs are played back within a limited playback range only, such as within one album.

- [Playback Range] [Details] is set to [Selected Range].
  - → Change the playback range setting.

Noise is generated.

- A device emitting radio signals, such as a mobile phone is being used near the player.
  - → When using devices such as mobile phones, keep them away from the player.
- Music data imported from CDs, etc., is damaged.
  - → Delete the data, then import and transfer it again. When importing data to your computer, close any other applications to avoid data damage.
- Transferred files are not in a playable format. For details, see [Details].
  - → Some songs may not be played back, depending on certain file specifications.
- The headphone plug is dirty.
  - → Clean the headphone plug with a soft dry cloth.

[VPT(Surround)] setting or [Clear Stereo] function is not effective.

- When outputting to external audio speakers using the cradle (not supplied), [VPT(Surround)] settings and the [Clear Stereo] function may not be effective because the player is designed for compatible headphones only. This is not a malfunction.

The player does not respond to any button operations.

- The HOLD switch is set to the HOLD position.
  - → Slide the HOLD switch on the right side to the opposite position [Details].
- The player contains moisture condensation.
  - → Wait a few hours to let the player dry out.
- The remaining battery power is low or insufficient.
  - → Charge the battery by connecting the player to a running computer [Details].
  - → If you charge the battery and nothing changes, press the RESET button to reset the player [Details].
- The player is connected to the computer via USB connection.
  - → Disconnect the USB connection, then operate the player.

Playback does not stop.

- With this player, there is no difference between stopping and pausing. When you press the ▶❙❙ button, ❙❙ appears and playback pauses/stops.

There is insufficient volume.

- [AVLS (Volume Limit)] is enabled.
  → Disable [AVLS (Volume Limit)] [Details].

There is no sound from the right channel of the headphones. Or the right channel sound is heard from both sides of the headphones.

- The headphone plug is not fully inserted.
  → If the headphones are not connected correctly, sound will not be output properly. Insert the headphone plug into the jack until it clicks [Details].

Playback has stopped suddenly.

- The remaining battery power is insufficient.
  → Charge the battery by connecting the player to a running computer [Details].

- The songs or video files that cannot be played are played.
  → Play back another song or video file.

Lyrics are not displayed.

- There is no lyrics data for the song [Details].
  → Create an LRC file for the song to display lyrics.

- The file name or file format is incorrect.
  → See [Details] for information on the file naming rule and file format.

Thumbnails (such as cover art) are not displayed.

- Songs of a file format supported by the player do not have cover art information. Thumbnails are displayed only when songs have cover art information and whose file format is supported by the player.
  → Transfer again using Windows Media Player 11, or another transfer capable software.

- Thumbnail name does not match its video, or the video is not in the correct location.
  → Place a JPEG file of the same name as the video into the folder under the [VIDEO] folder.

- If photos do not have thumbnails that comply with Exif file format, the thumbnails cannot be displayed.

- If you have transferred a song without cover art to the player, you cannot attach cover art to the song even if you transfer it once more along with its cover art.
  → Delete the song from the player, then transfer it to the player again along with its cover art.

The player's power turned off, and then on again.

- If a malfunction occurs, the player turns off, and then on again automatically.

The player does not work properly.

- The computer was started or restarted with the player connected to it.
  → Reset the player by pressing the RESET button of the player [Details]. Disconnect the

player when you start or restart the computer.

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Display

" □ " appears for a title or song lyrics.

- Characters that cannot be displayed on the player are included in the title or song lyrics.

[Unknown] is displayed for an album or artist name, etc.

- Information such as album or artist name, etc., is not contained in the data.

Garbled characters are displayed.

- The wrong language is selected.
  - → Select the correct language from [Language Settings] [Details], and then transfer data to the player again.

The screen darkens while displaying a photo.

- The screensaver is running [Details].
  - → Press any button.

The screen turns off.

- The screensaver is running [Details].
  - → Press any button.
- [On-Hold Display] is set to [No].
  - → Set [On-Hold Display] to [Yes] [Details].

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Power

Battery life is short.

- The operating temperature is below 5 °C (41 °F).
  - → Battery life becomes shorter as a result of the battery characteristics. This is not a malfunction.

- Battery charging time is not sufficient.
  - → Charge the battery until 【Full】 appears.

- By adjusting the settings or managing the power supply properly, it is possible to save the battery power and use the player for a longer time [Details].

- You have not used the player for more than a year.
  - → Depending on the conditions under which your player is used, the battery may have been deteriorated. Consult your nearest Sony dealer.

- [Battery Care] is set to [On].
  - → If [Battery Care] is set to [On], the maximum recharge capacity is limited to about 90%, resulting in the first bar of the battery indication disappearing quickly [Details].

- When usable battery life becomes half the usual time, even after charging the battery fully, the battery should be replaced.
  - → Consult your nearest Sony dealer.

The player cannot charge the battery.

- The USB cable is not connected to a USB connector on your computer properly.
  - → Disconnect the USB cable, and then reconnect it.
  - → Use the supplied USB cable.

- The battery is charged in an ambient temperature out of the range of 5 °C (41 °F) to 35 °C (95 °F).
  - → You cannot charge the battery when 【❗】 icon appears. Charge the battery in an ambient temperature of 5 °C (41 °F) to 35 °C (95 °F).

- The computer is not on.
  - → Turn on the computer.

- Your computer has entered Sleep or Hibernation status.
  - → Release the computer from Sleep or Hibernation status.

- A USB hub is being used.
  - → Connecting the player via a USB hub may not work. Connect the player to your computer using the USB cable (supplied).

- The operating system installed on the computer is not supported by the player.
  - → To charge the player, connect the player to a computer with the operating system that is supported by the player [Details].

- You have not used the player for more than a year.
  - → Depending on the conditions under which your player is used, the battery may have been deteriorated. Consult your nearest Sony dealer.

- After prescribing the remedies above, if the problem still persists, press the RESET button of the player [Details] and reconnect it to the computer by using the USB cable (supplied).

The player turns off automatically.

- To avoid unnecessary battery consumption, the player automatically turns off.
    - → Press any button to turn the player on.

Charging completes very quickly.

- If the battery is already almost fully charged when charging begins, little time is needed to reach full charge.

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Connection to a computer

Cannot install the software.

- Your computer is installed with an operating system that is not supported by the player.
  → Check the operating system of your computer [Details].

- Other software is running on Windows.
  → If another software is running, it may interfere with installation. Particularly, be sure to stop security software as it can put a heavy load on the computer.

- There is not enough free space for the hard drive.
  → Check the required hard drive space for installing the application, and delete unnecessary files.

- Your account has no administrator privileges, or you have not logged in as the computer's administrator.
  → To install the software, log in with an account with administrator privileges or log in as the computer's administrator.

- A message dialog is covered from your site by the install screen.
  → Press and hold the [Alt] key and press the [Tab] key several times until the message dialog appears. Then follow the message.

The progress bar on the install screen does not proceed. Or, the access lamp of the hard drive does not light for several minutes.

- Wait until the installation is completed, because it is progressing properly. The installation may take 30 minutes or more depending on the computer.

[Connected USB. The player cannot be operated.] or [Connected USB (MTP). The player cannot be operated.] does not appear when connected to the computer with the USB cable (supplied) (The computer does not recognize the player).

- The USB cable is not connected to a USB connector on your computer properly.
  → Disconnect the USB cable, and then reconnect it.
  → Use the supplied USB cable.

- A USB hub is being used.
  → Connecting the player via a USB hub may not work. Connect the player directly to your computer using the USB cable (supplied).

- The USB connector on your computer may have a problem.
  → Connect the player to another USB connector on your computer.

- When you use the player for the first time, or when the battery is low, it may take the player about 30 seconds to display the message after connected to a computer. This is not a malfunction.

- The software authentication may be performed and it may take rather a long time. Wait for a while.

- The software installation has been failed.
  - → Reinstall the software by using the installer. The imported data will remain untouched.

- By setting the player to the USB connection standby mode before connecting it to a computer, you may be able to establish connection between the player and the computer with more reliability.
  - → Select [Yes] for the [USB Connection Mode] [Details]. The player enters the USB connection standby mode and the USB connection standby screen appears.

- The computer is running another software other than the one used for transferring.
  - → Disconnect the USB cable, wait a few minutes, and reconnect it. If the problem persists, disconnect the USB cable, restart the computer, and then reconnect the USB cable.

- [Connected USB. The player cannot be operated.] or [Connected USB (MTP). The player cannot be operated.] may not appear on the player, depending on the software environment that is running on your computer.
  - → Activate Windows Media Player, or Windows Explorer.

- After prescribing the remedies above, if the problem still persists, press the RESET button of the player and reconnect it to the computer by using the USB cable (supplied).

Data cannot be transferred to the player from your computer.

- Transferring may be stopped due to noise, such as static electricity, etc. This happens to protect data information.
  - → Disconnect the player, then reconnect it.

- If you transfer files by drag-and-drop on a computer that does not have Windows Media Player 11 installed, only a limited amount of files (AAC, video files, etc.) may be transferrable by drag-and-drop.
  - → Install Windows Media Player 11 from the Windows Media Player download site, then transfer files by drag-and-drop again. Before installing Windows Media Player 11 on your computer, make sure to check whether your software or service corresponds to Windows Media Player 11. For details on usage, or support on Windows Media Player, visit the following web site:
  http://support.microsoft.com/

- The USB cable is not connected to a USB connector on your computer properly.
  - → Disconnect the USB cable, and then reconnect it.

- There is not enough free space in the built-in flash memory.
  - → Delete any unnecessary data to increase free space.
  - → For details on the maximum recordable number of files and folders, see [Details].

- Songs with a limited playing period or playing count may not be transferred due to restrictions set by copyright holders. For details on the settings of each audio file, contact the distributor.

- Abnormal data exists on the player.
  - → Transfer usable files back to your computer and format the built-in flash memory on the player [Details].

- You may not be using the supported software to transfer data to the player.
  - → Install the supported software and use it to transfer data.

- The data may be damaged.
  - → Delete the data that cannot be transferred from your computer, then import it to your computer again. When importing data to your computer or transferring data to the player, close any other applications to avoid data damage.

- You may be attempting to transfer a file that is not in a playable format.
  - → For information on the supported file format, see [Details]. You may not transfer a file depending on the file specification.

- You are trying to transfer .m4a, .mp4, .3gp or .m4v files on a computer that already has Windows Media Player 10 installed.

→ If you are using Windows XP or Windows Vista, install Windows Media Player 11 from the Windows Media Player download site.

- If you transfer data using an appropriate software for transferring, but the transfer is not made, refer to the manufacturer.

The transfer takes too long time.

- You are transferring a large file.
  → It may take a long time to transfer a large file.

Only a small amount of data can be transferred to the player.

- There is not enough free space in the built-in flash memory.
  → Delete any unnecessary data to increase free space.

- Data that cannot be played on the player is stored on the player.
  → If data other than song, video, or photo data is stored on the player, less data can be transferred. Transfer back data that cannot be played on the player to the computer to increase the available space.

Cannot return a song on the player to the computer.

- You may attempt return a song to a computer that was not used to transfer the song to the player.
  → If you transfer a song from a computer to the player by using software, you may become unable to return the song to another computer. Return the song to the computer from which you transferred the song to the player. If you cannot return the song to the computer and intend to delete the song, use software to select and delete it.

- You may have deleted the song on the computer from which you transferred the song to the player.
  → If you delete the song on the computer from which you transferred the song to the player, you cannot return the song to the computer.

The player becomes unstable while it is connected to the computer.

- A USB hub or USB extension cable is being used.
  → Connecting the player via a USB hub or extension cable may not work. Connect the player directly to your computer using the USB cable (supplied).

Folders cannot be renamed or deleted.

- You cannot delete or rename the [MUSIC], [MP_ROOT], [MPE_ROOT], [VIDEO], [DCIM], [PICTURE], [PICTURES], [PODCASTS], [RECORD] and [VOICE] folders.

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"SensMe™ Channels"

You cannot find your desired channel.

- If there are no songs to match the theme of the channel, the channel is not displayed on the [SensMe™ Channels] screen.

[Morning] always displayed for the time-based channel.

- If you have not set the clock of the player, [Morning] always appears for the time-based channel.
  → Set the clock of the player [Details].

Unsuitable songs for selected time-based channels are played.

- If there are no songs to match the theme of the time-based channel, all the songs in the player are shuffle-played.

Audio podcasts and voice recordings are not played by "SensMe™ Channels."

- Audio podcasts and voice recordings are not analyzed by 12 TONE ANALYSIS and you cannot play them back using "SensMe™ Channels."

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FM Radio

FM broadcasts are unclear.

- The received station is not fully tuned in.
  - → Tune the station in manually using the ▲ / ▼ button [Details].

Reception is weak and sound quality is poor.

- The radio signal is weak.
  - → Listen to the FM broadcast near a window since the signal may be weak inside buildings or in vehicles.
- The headphone cord is not fully extended.
  - → The headphone cord functions as an antenna. Extend the headphone cord as far as possible.
- Setting the receiver to monaural may reduce noise.
  - → Set the [Mono/Auto] option to [Mono] [Details].

FM broadcasts are affected by interference.

- A device emitting radio signals, such as a mobile phone, is being used near the player.
  - → When using devices such as mobile phones, keep them away from the player.

FM broadcasts cannot be heard.

- The headphones are not connected.
  - → The headphone cord functions as an antenna. When a peripheral device (not supplied) is connected to the WM-PORT jack and the headphones cannot be connected, FM broadcast reception is unavailable.

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Recording

The remaining recording time remains the same even though files are deleted.

- Due to system restrictions, the remaining recording time may not increase if only short files are deleted.

Cannot record.

- There is not enough free space in the built-in flash memory.
  → Delete unnecessary files [Details].
  → Export recorded files to a computer. Necessary free space may vary, depending on the bit rate or recording time.

- The maximum number of files that can be recorded is reached. For information on the maximum number of recordable files and folders, see [Details].
  → Delete unnecessary files [Details].
  → Export the recorded files to a computer.

- The player is connected to a computer.
  → Disconnect the player from the computer.

- The serial number of the file name has reached 999.
  → Create a new folder [Details].

The combined total elapsed and remaining recording time does not equal the maximum recording time.

- Due to system restrictions, remaining recording time may decrease by a few seconds when starting recording.

Recorded files cannot be deleted.

- A file or the folder that cannot be deleted is set to [Readonly] on a computer.
  → Delete the data using Windows Explorer.

- The battery power is low or exhausted.
  → Charge the battery fully [Details].

A folder is not deleted even though all recorded files have been deleted.

- Files other than recorded files are included in the folder.
  → Open the folder using Windows Explorer, and delete all files other than those recorded by the player.

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Podcast

Cannot play back an episode.

- The player does not support the file format of the episode.
  → Check the file format playable on the player [Details].

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Other

There is no beep sound when the player is operated.

- [Beep Settings] is set to [Off].
  → Set [Beep Settings] to [On] [Details].

- The beep does not sound when the player is connected to the cradle (not supplied), or another device.

The player gets warm.

- The player may become warm when the battery is being charged and just after charging. The player also may get warm when a large amount of data is transferred. This behavior is normal and not cause for a concern. Set the player aside for a while to allow it to cool down.

The date and time have been reset.

- If you left the player for a while with the battery used up, the date and time may be reset. This is not a malfunction. Charge the battery until ▪▪▪ appears on the screen, and set the date and time again [Details].

Noise is generated when plugging or unplugging the headphones.

- Take off the headphones when plugging or unplugging the headphones. If you plug or unplug the headphones while playing a song, you may hear noise from the headphones. This is not a malfunction.

Cannot add audio podcasts or voice recordings to a bookmark list.

- You can add transferred songs only to a bookmark list, and you cannot add audio podcasts or voice recordings.

The slide show is not displayed as the screensaver.

- The slide show is displayed only when the player is connected to the AC outlet.

- If there are no photos to be displayed for the slide show, the screensaver dims the screen [Details].

The alarm does not go off.

- [Alarm On/Off] is set to [Off].
  → Set [Alarm On/Off] to [On] [Details].

- The alarm will not sound in the following situations.
  − Recording voice (though the alarm icon flashes in the information area).
  − Connected to a computer.

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The alarm is delayed

- In the following situations, the alarm will be postponed until the process is finished.
  - Deleting data.
  - Formatting memory.

The sleep timer does not work.

- The sleep timer will not activate in the following situations.
  - Recording voice.
  - Connected to a computer.
  - Using [Auto Preset] function of the FM radio.
  - Analyzing songs for "SensMe™ Channels."
  - Sounding the alarm.

- The sleep timer will be canceled in the following situations.
  - Entering standby mode.
  - Connecting the player to a computer.

The sleep timer is delayed.

- In the following situations, the sleep timer will be postponed until the process is finished.
  - Deleting data.
  - Formatting memory.

The preset alarm sound is produced instead of the selected alarm song.

- You have deleted the song selected as the alarm song.
  - → Select another song as the alarm song and set [Alarm Sound Settings] to [Alarm Song] [Details].

Cannot adjust the playback speed.

- You cannot adjust the playback speed when using the karaoke function.
  - → Set [Karaoke/Language Study] to [Off] or [Language Study] [Details].

Cannot suppress the vocal of the song.

- The effects of vocal suppression differ among songs. Depending on the song, the vocal may hardly be suppressed.

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Messages

Follow the instructions below if a message appears in the display.

[Cannot play; file format is not supported.]

- You are trying to play a file that cannot be played on the player.
  → You cannot play a song in an unsupported format file [Details].

[Cannot play; license has expired.]

- The playback limitation period of the song has expired.
  → Update the license information of songs using the software used for transferring.

[Delete failed.]

- You attempted to delete a video but the player failed to delete it.
  → Delete the video by using Content Transfer or Windows Explorer.

[Do not disconnect.]

- The player is connected to a computer or other external devices to transfer data.
  → This is not an error message. Do not disconnect the USB cable until transferring completes.

[Firmware update failed.]

- Updating the firmware failed to complete.
  → Follow the instructions displayed on your computer to retry updating the firmware.

[LOW BATTERY. Please Charge.]

- The player's battery is running low.
  → Charge the battery [Details].

[Not enough free space in memory. Delete files to ensure free space.]

- The player's available capacity is insufficient.
  → Connect the player to your computer using the supplied USB cable, and then delete any unnecessary data from the player using another software used for transferring, or Windows Explorer.

[Unable to set photo as wallpaper.]

- The selected photo cannot be designated as the wallpaper.
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➜ Make sure the photo is not a damaged file or the size is not too large.

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Important product information

Notice for customers: the following information is only applicable to equipment sold in countries applying EU directives

The manufacturer of this product is Sony Corporation, 1-7-1 Konan Minato-ku Tokyo, 108-0075 Japan. The Authorized Representative for EMC and product safety is Sony Deutschland GmbH, Hedelfinger Strasse 61, 70327 Stuttgart, Germany. For any service or guarantee matters please refer to the addresses given in separate service or guarantee documents.

Disposal of Old Electrical & Electronic Equipment (Applicable in the European Union and other European countries with separate collection systems)

This symbol on the product or on its packaging indicates that this product shall not be treated as household waste. Instead it shall be handed over to the applicable collection point for the recycling of electrical and electronic equipment. By ensuring this product is disposed of correctly, you will help prevent potential negative consequences for the environment and human health, which could otherwise be caused by inappropriate waste handling of this product. The recycling of materials will help to conserve natural resources. For more detailed information about recycling of this product, please contact your local Civic Office, your household waste disposal service or the shop where you purchased the product.
Applicable accessories: Headphones

Disposal of waste batteries (applicable in the European Union and other European countries with separate collection systems)

This symbol on the battery or on the packaging indicates that the battery provided with this product shall not be treated as household waste.
On certain batteries this symbol might be used in combination with a chemical symbol. The chemical symbols for mercury (Hg) or lead (Pb) are added if the battery contains more than 0.0005% mercury or 0.004% lead.
By ensuring these batteries are disposed of correctly, you will help prevent potentially negative consequences for the environment and human health which could otherwise be caused by inappropriate waste handling of the battery. The recycling of the materials will help to conserve natural resources.
In case of products that for safety, performance or data integrity reasons require a permanent connection with an incorporated battery, this battery should be replaced by qualified service staff only.
To ensure that the battery will be treated properly, hand over the product at end-of-life to the applicable collection point for the recycling of electrical and electronic equipment.
For all other batteries, please view the section on how to remove the battery from the product

safely. Hand the battery over to the applicable collection point for the recycling of waste batteries.

For more detailed information about recycling of this product or battery, please contact your local Civic Office, your household waste disposal service or the shop where you purchased the product.

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Warning

The following descriptions are important for using the player. Be sure to follow the instructions below.

- Be sure not to short-circuit the terminals of the player with metallic objects.
- Do not pour water or put any foreign object in the player. Doing so may cause fire or electric shock.
  If this occurs, turn off the player immediately, disconnect the USB cable from the player, and consult your nearest Sony dealer or Sony Service Center.
- Do not place the player in fire.
- Do not take apart or remodel the player. Doing so can result in electric shock. Consult your nearest Sony dealer or Sony Service Center for exchange of rechargeable batteries, internal checks or repair.
- Do not put any heavy object on top of the player or apply a strong shock to the player. It may cause a malfunction or damage.

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Caution

▾ Notes on use
▾ Notes on usage environment
▾ Notes on handling the player
▾ Notes on protecting the player from getting wet

Notes on use

The following descriptions are important for using the player. Be sure to follow the instructions below.

- Do not touch the rechargeable battery with bare hands if it is leaking. Since battery liquid may remain in the player, consult your nearest Sony dealer if the battery has leaked. If the liquid gets into your eyes, do not rub your eyes as it may lead to blindness. Wash out your eyes with clean water, and consult a doctor.
  Also, if the liquid gets on to your body or clothes, wash it off immediately. If you do not, it may cause burns or injury. If you get burned or injured by the liquid from the battery, consult a doctor.
- If the player causes interference to radio or television reception, turn the player off and move it away from the radio or television.
- In particularly dry air conditions, mild tingling may be felt on your ears. This is a result of static electricity accumulated in the body, and not a malfunction of the player.
  The effect can be minimized by wearing clothes made from natural materials.
- When using a strap (not supplied), be careful to avoid catching it on objects you pass by. Furthermore be careful not to swing the player by the strap to avoid bumping people.
- Refrain from using the player according to the in-flight announcements during take off or landing in an aircraft.
- If you see lightning or hear thunder, take off the headphones immediately and refrain from using the player.
- If you experience an allergic reaction to the supplied headphones, stop using them at once and contact a doctor.

Notes on usage environment

- Never use the player where it will be subjected to extremes of light, temperature, moisture or vibration. Also, never leave the player exposed to high temperature, such as in a car parked in the sun or under direct sunlight. The player may become discolored, distorted or damaged.
- Do not leave the player in a place subject to excessive dust.
- Do not leave the player on an unstable surface or in an inclined position.

Notes on handling the player

- When you unplug the headphones from the player, make sure to hold the headphone plug to unplug it. Pulling the headphone cord itself may cause damage to the headphone cord.
- Do not apply strong force to the surface of the LCD. This may cause a distortion in colors or brightness, or cause a malfunction of the LCD.
- When using the player, remember to follow the precautions below in order to avoid warping the cabinet or causing the player to malfunction.
  - Make sure not to sit down with the player in your back pocket.

– Make sure not to put the player into a bag with the headphones/earphones cord wrapped around it and then subject the bag to strong impact.

Notes on protecting the player from getting wet

- Do not expose the player to water. The player is not waterproof. Remember to follow the precautions below.
  - Be careful not to drop the player into a sink or other container filled with water.
  - Do not use the player in humid locations or bad weather, such as in the rain or snow.
  - Do not get the player wet.
    If you touch the player with wet hands, or put the player in a damp article of clothing, the player may get wet and this may cause a malfunction of the player.

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Notice for users

- The recorded song is limited to private use only. Use of the song beyond this limit requires permission of the copyright holders.
- Sony is not responsible for incomplete recording/downloading or damaged data due to problems of the player or computer.
- Depending on the type of the text and characters, the text shown on the player may not be displayed properly on device. This is due to:
  - The capacity of the connected player.
  - The player is not functioning normally.
  - Content information is written in language or character that are not supported by the player.
- Heat may build up in the player while charging if it is used for an extended period of time.
- Note that condensation may form temporarily in cases such as when the player is moved quickly from a low-temperature environment to a high temperature environment, or used in a room that has a heater just turned on. Condensation creates a phenomenon where moisture in the air adheres to surfaces such as metal panels, etc., and then changes to liquid.
  If condensation forms in the player, leave it turned off until the condensation disappears. If you use the player with condensation present, a malfunction may result.
- If you use the player in a cold location, images may appear with black bands around them. This is not a malfunction of the player.

About sample data (*1)

The player is pre-installed with sample data.
If you delete the sample data, you cannot restore it, and we will not supply any replacement data.
(*1) In some countries/regions some sample data is not installed.

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Notes on the headphones

Road safety

Avoid listening with your headphones in situations where hearing must not be impaired.

Preventing hearing damage

Avoid using the headphones at a high volume. Hearing experts advise against continuous, loud and extended play. If you experience a ringing in your ears, reduce the volume or discontinue use.
Do not turn the volume up high all at once, especially when using headphones. Turn up the volume gradually to avoid excessive levels hurting your ears.

Caring for others

Keep the volume at a moderate level. This will allow you to hear outside sounds and to be considerate to the people around you.

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Notes on the software

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- Operation of this player with software other than that provided is not covered by the warranty.
- The ability to display the languages on supplied software will depend on the installed OS on your computer. For better results, please ensure that the installed OS is compatible with the desired language you want to display.
  - We do not guarantee all the languages will be able to be displayed properly on the supplied software.
  - User-created characters and some special characters may not be displayed.
- The explanations in this manual assume that you are familiar with the basic operations of Windows.
  For details on the use of your computer and operating system, please refer to the respective manuals.

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Notes on cleaning

- Clean the player's case with a soft cloth, such as a cleaning cloth for eyeglasses.
- If the player's case should become very dirty, clean it with a soft cloth slightly moistened with water or a mild detergent solution.
- Do not use any type of abrasive pad, scouring powder, or solvent, such as alcohol or benzene, as it may mar the finish of the case.
- Be careful not to let water get into the player from the opening near the connector.
- Clean the headphone plug periodically.

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Storing data

You can store computer data into the built-in flash memory of the player by transferring the data from your computer using Windows Explorer, or other transfer-capable software. If the player is connected to the computer, the built-in flash memory appears in Windows Explorer as [WALKMAN].

Note
- Do not use the bundled software while using Windows Explorer to interact with the built-in flash memory of the player.
- Do not disconnect the USB cable (supplied) while [Do not disconnect.] appears during data transfer. Otherwise, the data being transferred or the data stored in the player may be damaged.
- Do not rename the [MUSIC], [MP_ROOT], [MPE_ROOT], [VIDEO], [DCIM], [PICTURE], [PICTURES], [SCREENSAVER] [PODCASTS] [RECORD] and [VOICE] folders. Also, do not rename files and folders under them. Otherwise, they will not be displayed on the player.

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Upgrading the player's firmware

You can update the player's firmware. Installing the latest player's firmware allows you to add new features to the player. For details on the latest firmware information and how to install it, visit the customer support Web sites [Details].

1. Download the update program to your computer from the Web site.

2. Connect the player to your computer, and then start the update program.

3. Follow the on-screen instructions to update the player's firmware.
   Firmware update is complete.

Hint
- Version information for the player's firmware can be displayed by selecting ▦ [Settings] ➜ [Common Settings] ➜ [Unit Information] from the Home menu [Details].

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http://www.sony.net/Products/Linux/

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Package List

busybox	dosfstools	mdadm	sysvinit
udev	u-boot	linux-kernel	procps
e2fsprogs	alsa-lib	alsa-utils	gcc
glibc	lrzsz	coreutils	net-tools
nfs-utils			

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Version 2.1, February 1999

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- ▸ Troubleshooting
- ▸ Important Information
- ▸ Specifications

➡ Contents list

Specifications

Supported file format

Music (including podcasts (*1))		
Audio Formats (Codec)	MP3	Media File format: MP3 (MPEG-1 Layer3) file format File extension: .mp3 Bit rate: 32 to 320 kbps (Supports variable bit rate (VBR)) Sampling frequency (*2): 32, 44.1, 48 kHz
	WMA	Media File format: ASF file format File extension: .wma Bit rate: 32 to 192 kbps (Supports variable bit rate (VBR)) Sampling frequency (*2): 44.1 kHz * Compatible with WM-DRM 10
	AAC-LC (*3)	Media File format: MP4 file format File extension: .mp4, .m4a, .3gp Bit rate: 16 to 320 kbps (Supports variable bit rate (VBR)) (*4) Sampling frequency (*2): 8, 11.025, 12, 16, 22.05, 24, 32, 44.1, 48 kHz
	Linear PCM	Media File format: Wave-Riff file format File extension: .wav Bit rate: 1,411 kbps Sampling frequency (*2): 44.1 kHz
Video (including podcasts (*1))		
Video Formats (Codec)		Frame rate: Max. 30 fps Resolution: Max. 720 × 480 (*5)
	AVC (H.264/AVC)	Media File format: MP4 file format, "Memory Stick" video format File extension: .mp4, .m4v Profile: Baseline Profile Level: 1.2, 1.3, 2, 2.1, 2.2, 3 Bit rate: Max. 10 Mbps
	MPEG-4	Media File format: MP4 file format, "Memory Stick" video format File extension: .mp4, .m4v Profile: Simple Profile Bit rate: Max. 6 Mbps
	Windows Media Video 9 (*6)	Media File format: ASF file format File extension: .wmv Profile: VC1 simple profile, main profile Bit rate: Max. 6 Mbps
Audio Formats	AAC-LC (for AVC, MPEG-4)	Channel number: Max. 2 channels Sampling frequency (*2): 24, 32, 44.1, 48 kHz Bit rate: Max. 288 kbps / channel
		Bit rate: 32 to 192 kbps (Supports variable bit rate

(Codec)	WMA (for Windows Media Video 9)	(VBR)) Sampling frequency (*2): 44.1 kHz * Compatible with WM-DRM 10
File size		Max. 4 GB
The number of files		Max. 2,000
Photo (*7)		
Photo Format (Codec)	JPEG	Media File format: Compatible with DCF 2.0/Exif 2.21 file format File extension: .jpg Profile: Baseline Profile Number of pixels: Max. 4,096 × 4,096 pixels (16,000,000 pixels)
The number of files		Max. 20,000
Voice Recording		
Audio Format (Codec)	MP3	Bit rate: 64, 128, 256 kbps Sampling Frequency: 44.1 kHz

(*1) The maximum recordable number of podcasts is 20,000.

(*2) Sampling frequency may not correspond to all encoders.

(*3) Copyright protected AAC-LC files cannot be played back.

(*4) Non-standard bit rates or non-guaranteed bit rates are included depending on the sampling frequency.

(*5) These numbers indicate the maximum resolution of playable video, and do not indicate the player's display resolution. The display resolution is 320 × 240.

(*6) Some WMV files can be played back only by transferring using Windows Media Player.

(*7) Some photo files cannot be played back, depending on their file formats.

Maximum recordable number of songs and time (Approx.)

The approximate times are based on the case in which you transfer or record only 4 minute songs (not including videos and photos) in the MP3 format. Other playable audio file format song numbers and times may differ from MP3 format.

	NWZ-E453		NWZ-E454		NWZ-E455	
Bit rate	Number	Time	Number	Time	Number	Time
48 kbps	2,350	156 hr. 40 min.	4,950	330 hr. 00 min.	10,000	666 hr. 40 min.
64 kbps	1,750	116 hr. 40 min.	3,650	243 hr. 20 min.	7,450	496 hr. 40 min.
128 kbps	880	58 hr. 40 min.	1,800	120 hr. 00 min.	3,700	246 hr. 40 min.
256 kbps	440	29 hr. 20 min.	925	61 hr. 40 min.	1,850	123 hr. 20 min.
320 kbps	355	23 hr. 40 min.	740	49 hr. 20 min.	1,500	100 hr. 00 min.

Maximum recordable time of videos (Approx.)

The approximate recordable times are estimated in the case where only videos are transferred. The time may differ, depending on the conditions under which the player is used.

	NWZ-E453	NWZ-E454	NWZ-E455
Bit rate	Time	Time	Time
Video Format: 384 kbps Audio Format: 128 kbps	14 hr. 00 min.	29 hr. 20 min.	59 hr. 40 min.
Video Format: 768 kbps	8 hr. 00 min.	16 hr. 40 min.	34 hr. 00 min.

Audio Format: 128 kbps			

Maximum recordable number of photos that can be transferred (Approx.)

Max. 20,000

Recordable number of photos may be less depending on file sizes.

Maximum recordable number of voice recordings

Maximum recordable number of voice recording files: 4,000
Maximum recordable number of voice recording folders: 255
Maximum recordable number of voice recording files in each folder: 255

Maximum recordable number of playlists

Maximum transferrable number of playlists: 8,192
Maximum containable number of songs in each playlist: 999

Capacity (User available capacity) (*1)

NWZ-E453: 4 GB (Approx. 3.35 GB = 3,602,841,600 bytes)
NWZ-E454: 8 GB (Approx. 6.99 GB = 7,513,178,112 bytes)
NWZ-E455: 16 GB (Approx. 14.1 GB = 15,224,602,624 bytes)

(*1) Available storage capacity of the player may vary.

A portion of the memory is used for data management functions.

Output (headphones)

Frequency response
20 to 20,000 Hz (when playing data file, single signal measurement)

FM radio

FM Frequency range
87.5 to 108.0 MHz
(You cannot use the FM radio function while the player is installed into the speaker system.)

IF (FM)

128 kHz

Antenna

Headphone cord antenna

Interface

Headphone: Stereo mini-jack
WM-PORT (multiple connecting terminal): 22 pins
Hi-Speed USB (USB 2.0 compliant)

Operating temperature

5 °C to 35 °C (41 ºF to 95 ºF)

Power source

- Built-in rechargeable lithium-ion battery
- USB power (from a computer via a USB connector of the player)

Charging time

USB-based charging
Approx. 3 hours (full charge), Approx. 1.5 hours (approx. 80 %)

Battery life (continuous playback)

Actual battery life may vary depending on settings. The estimated battery usage hours shown below are based on typical usage conditions with "Basic setting of battery life measurement" as shown in the table below.

Music	
Playback at MP3 128 kbps	Approx. 50 hours
Playback at WMA 128 kbps	Approx. 50 hours
Playback at AAC-LC 128 kbps	Approx. 48 hours
Playback at Linear PCM 1,411 kbps	Approx. 56 hours
Video	
Playback at MPEG-4 384 kbps	Approx. 10 hours
Playback at AVC Baseline 384 kbps	Approx. 10 hours
Playback at WMV 384 kbps	Approx. 10 hours
FM radio	
Receiving FM broadcasting	Approx. 20 hours
Voice recording	
Recording	Approx. 9 hours

Player settings which affect battery life

	Setting	Basic setting of battery life measurement (Default setting)
[Common Settings]	[Screensaver]:[On/Off] (*1) [Details]	[On]
	[Screensaver]:[Delay] (*2) [Details]	[30 Sec]
	[Brightness] (*3) [Details]	[3]
	[Battery Care] (*4) [Details]	[Off]
[Music Settings]	[Equalizer] (*5) [Details]	[None] (*6)
	[VPT(Surround)] (*5) [Details]	[None]
	[DSEE(Sound Enhance)] (*5) [Details]	[Off]
	[Clear Stereo] (*5) [Details]	[Off]
	[Dynamic Normalizer] (*5) [Details]	[Off]
	[DPC (Speed Control)] (*7) [Details]	[Off]
	[Display Lyrics] (*8) [Details]	[On]
	[Karaoke/Language Study] (*9) [Details]	[Off]

(*1) The [Off] setting shortens the battery life for continuous music playback by about 85% compared with the [On] setting.

(*2) The longer the waiting time, the shorter the battery life for continuous music playback.

(*3) The [5] setting shortens the battery life for continuous video playback by about 45% compared with the [3] setting.

(*4) The [On] setting shortens the battery life by about 10% compared with the [Off] setting.

(*5) Setting [Equalizer] to other than [None], [VPT(Surround)] to other than [None], [DSEE(Sound Enhance)] to [On], [Clear Stereo] to [On] and [Dynamic Normalizer] to [On] shortens the battery life for continuous music playback by about 55% compared with setting them to [None] or [Off].

(*6) The default setting of players sold in the Latin America region is [Custom 1]. The [Custom 1] setting shortens the battery life for continuous music playback by about 20% compared with the [None] setting.

(*7) The [x2.0] setting shortens the battery life for continuous music playback by about 70% compared with the [Off] setting.

(*8) The [On (No Screen Off)] setting shortens the battery life for continuous music playback by about 85% compared with the [On] setting.

(*9) The [Maximum Karaoke Mode] setting shortens the battery life for continuous music playback by about 90% compared with the [Off] setting.

Display

2-inch, TFT color display with white LED-backlight, QVGA (240 × 320 pixels), 262,144 colors

Dimensions (w/h/d, projecting parts not included)

44 × 94.7 × 9.7 mm (1 3/4 × 3 3/4 × 13/32 inches)

Dimensions (w/h/d)

44.1 × 95 × 10.4 mm (1 3/4 × 3 3/4 × 7/16 inches)

Mass

Approx. 58 g (2.1 oz)

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- Getting Started
- How to Use the Software
- Music
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Supplied items

- Headphones (1)
- USB cable (1)
- Attachment (1)
  Use when connecting the player to the cradle (not supplied), etc.
- Quick Start Guide
- Software
  The software is stored in the built-in flash memory of the player, and includes the following items. For details on how to install, refer to "Quick Start Guide."
  − Content Transfer
  − WALKMAN Guide
  − User Guide, etc.

Design and specifications are subject to change without notice.

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System requirements

- Computer
  IBM PC/AT compatible computer preinstalled with the following Windows operating systems (*1):
  − Windows XP Home Edition (*2) (Service Pack 3 or later)
  − Windows XP Professional (*2) (Service Pack 3 or later)
  − Windows Vista Home Basic (Service Pack 1 or later)
  − Windows Vista Home Premium (Service Pack 1 or later)
  − Windows Vista Business (Service Pack 1 or later)
  − Windows Vista Ultimate (Service Pack 1 or later)
  − Windows 7 Home Basic
  − Windows 7 Home Premium
  − Windows 7 Professional
  − Windows 7 Ultimate

Not supported by OSs other than above.

[Compatibility mode] for Windows XP (included with Windows Vista and Windows 7) is not supported.

(*1) Excluding OS Versions not supported by Microsoft.

(*2) Excluding 64-bit OS versions.

- CPU: Pentium III 450 MHz or higher for Windows XP, Pentium III 800 MHz or higher for Windows Vista, Pentium III 1 GHz or higher for Windows 7
- RAM: 256 MB or more for Windows XP, 512 MB or more for Windows Vista, 1 GB or more for Windows 7 32-bit versions, 2 GB or more for Windows 7 64-bit versions
- Hard Disk Drive: 600 MB or more of available space
- Display:
  − Screen Resolution: 800 × 600 pixels (or higher) (recommended 1,024 × 768 or higher)
  − Colors: 8 bit or higher (16 bit recommended)
- CD-ROM drive (supporting Digital Music CD playback capabilities using WDM)
- Sound card
- USB connector (Hi-Speed USB is recommended)
- Windows Media Player 11 for Windows XP and Windows Vista, Windows Media Player 12 for Windows 7
- Internet Explorer 7 or later
- Broadband Internet connection is required to use Electronic Music Distribution (EMD) or to visit the web site.

We do not guarantee operation for all computers even if they meet the above System Requirements.

Not supported by the following environments:
  − Personally constructed computers or operating systems
  − An environment that is an upgrade of the original manufacturer-installed operating system
  − Multi-boot environment
  − Multi-monitor environment
  − Macintosh

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What is audio format?

▼ What is copyright protection?
▼ What is bit rate?
▼ What is the relationship between bit rate, sound quality, and storage size?

Audio format refers to the method used to import audio data from the Internet or audio CDs to a computer, to save as an audio file.
Common formats include MP3 and WMA, etc.

MP3: MP3 (MPEG-1 Audio Layer3) is a common audio compression technology developed by the MPEG working group of the ISO (International Organization for Standardization).
MP3 can compress audio files to about 1/10 the size of standard CD audio files.

WMA: WMA (Windows Media Audio) is a common audio compression technology developed by Microsoft Corporation. The WMA format produces the same sound quality as that of the MP3 format with a smaller file size.

AAC: AAC (Advanced Audio Coding) is a common audio compression technology developed by the MPEG working group of the ISO (International Organization for Standardization). The AAC format produces the same sound quality as that of the MP3 format, with a smaller file size.

Linear PCM: Linear PCM is an audio recording format without digital compression. You can achieve CD sound quality by recording with this format.

> **Hint**
> ● For details on supported file formats and bit rates, see [Details].

▌ What is copyright protection?

Certain music files or video files, etc., that you purchase from a music download service site, etc., may have access control technologies applied, such as encryption, to limit usage and duplication of the material, in accordance with copyright laws.

▌ What is bit rate?

Bit rate refers to the amount of data used to store each second of audio, expressed in kbps (kilo bits per second), such as 64 kbps. Generally, higher bit rates provide better sound quality, but require more storage space for the same length of audio.

▌ What is the relationship between bit rate, sound quality, and storage size?

Generally, higher bit rates provide better sound quality, but require more storage space for the same length of audio, so you can store fewer songs on the player.
Lower bit rates enable you to store more songs, but at a lower sound quality.

> **Note**
> ● If you import a song from a CD to your computer at a low bit rate, you cannot improve the

song's sound quality by selecting a high bit rate when further transferring the song from the computer to the player.

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What is video format?

Video format refers to the method used when importing video and audio data to a computer and saving it as a video file.
Common formats include MPEG-4 and AVC, etc.

MPEG-4: MPEG-4 refers to Moving Picture Experts Group phase 4, developed by the MPEG working group of the ISO (International Organization for Standardization). The compression format is for video and audio data.

AVC: AVC refers to Advanced Video Coding, developed by the MPEG working group of the ISO (International Organization for Standardization). It enables reproduction of more vivid images at a lower bit rate. AVC files include four profiles, and "AVC Baseline Profile" is one of them. AVC format is based on the MPEG-4 AVC standard of the ISO (International Organization for Standardization), and since AVC is standardized as the MPEG-4 Part 10 Advanced Video Coding, it is commonly referred to as MPEG-4 AVC/H.264 or H.264/AVC.

WMV: WMV (Windows Media Video) is a video compression format developed by Microsoft Corporation. It was built upon MPEG-4, achieves a high compression rate, and supports copy control by DRM.

> **Hint**
> - For details on supported file formats and bit rates, see [Details].

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What is photo format?

Photo format refers to the method used to import images to a computer to save as image files. JPEG is one example of a commonly used format.

JPEG: JPEG (Joint Photographic Experts Group) is a common image compression format developed by the JPEG. JPEG can compress an image file to between 1/10 and 1/100 the size of original image files.

Hint
- For details on supported file formats and bit rates, see [Details].

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