

Please see page 21 of 39(labeled 143) and page 22 of 39(labeled 144) for FCC and IC manual statements

Upgrading the Player's Firmware

You can update the player's firmware, ensuring you to add new features for the player by installing the latest player's firmware to the player. For details about the latest firmware information and how to install it, visit the following web site:

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/>

- 1 Download the update program to your computer from the web site.**
- 2 Connect the player to your computer, and then start up the update program.**
- 3 Follow the on-screen instructions to update the player's firmware.**
Firmware update is complete.

Troubleshooting

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

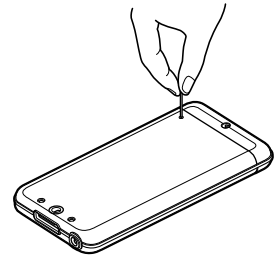
1 Find the symptoms of the issue in the following troubleshooting tables, and try any corrective actions listed.

2 Connect the player to your computer to charge the battery.

You may be able to resolve some issues by charging the battery.

3 Press the RESET button with a small pin, etc.

If you press the RESET button while operating the player, stored data and settings on the player may be deleted.



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

5 Look for information about the issue on one of the support Web sites.

For customers in the USA, visit: <http://www.sony.com/walkmansupport>

For customers in Canada, visit: <http://www.sony.ca/ElectronicsSupport/>

For customers in Europe, visit: <http://support.sony-europe.com/DNA>

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

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

For customers who purchased the overseas models, visit:

<http://www.sony.co.jp/overseas/support/>

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

Continued ↓

Operation

Symptom	Cause/Remedy
There is no sound.	<ul style="list-style-type: none"> • The volume level is set to zero. <ul style="list-style-type: none"> → Turn the volume up (☞ page 10). • The headphone jack is not connected properly. <ul style="list-style-type: none"> → Connect the headphone jack properly (☞ page 10). • The headphone plug is dirty. <ul style="list-style-type: none"> → Clean the headphone plug with a soft dry cloth. • No songs or video files are stored on the player. <ul style="list-style-type: none"> → Follow the instructions in the displayed message, and transfer songs or videos from the computer. • The Bluetooth function is turned on. <ul style="list-style-type: none"> → While the Bluetooth function is turned on, sound does not come out from the headphones of the player. Turn off the Bluetooth function (☞ page 94).
No data is played.	<ul style="list-style-type: none"> • The battery is consumed. <ul style="list-style-type: none"> → Charge the battery fully (☞ page 114). → If the player does not react, even after charging the battery, press the RESET button to reset the player (☞ page 124). • No data is stored on the player. <ul style="list-style-type: none"> → Follow the instructions in the displayed message, and transfer data from the computer. • Transferred files are not in a playable format. For details, see “Supported file format” of “Specifications” (☞ page 154). <ul style="list-style-type: none"> → Convert the ATRAC audio data using the supplied MP3 Conversion Tool. → Songs or videos may not be played back, depending on the file format (☞ page 154). → Photos may not be displayed, depending on the file size or the file format (☞ page 154). • You are placing audio MP4 files in a video folder by dragging and dropping. <ul style="list-style-type: none"> → Place them in the “MUSIC” folder by dragging and dropping. • The playback limitation period of the song has expired due to subscription conditions, etc. <ul style="list-style-type: none"> → Songs with an expired playback limitation period cannot be played back. Update them using the software used for transferring. • After dragging and dropping in Windows Explorer, data hierarchy levels do not correspond to the player (☞ page 116).

Operation (continued)

Symptom	Cause/Remedy
Transferred data is not displayed in its list.	<ul style="list-style-type: none"> ● The maximum number of files that can be displayed is reached. The maximum number of files is 1,000 files for videos, 10,000 files for photos. Also, the maximum number of folders is 1,000 folders for photos in the photo folder list. → Delete unnecessary data. ● Data was placed in the wrong location by dragging and dropping. → Place the data in the correct place by dragging and dropping (☞ page 116). ● Available capacity is insufficient. → Delete unnecessary data to increase free space on the player. ● After dragging and dropping in Windows Explorer, data hierarchy levels do not correspond to the player (☞ page 116). ● Transferred files are not in a playable format. For details, see “Supported file format” of “Specifications” (☞ page 154). → Convert the ATRAC files using the supplied MP3 Conversion Tool software.
When “All Songs” or “Album” is selected, all the songs will appear, but some songs will not appear when “Folder” is selected.	<ul style="list-style-type: none"> ● The audio files are not in folders under the “MUSIC” folder. → Place them in folders under the “MUSIC” folder by dragging and dropping.
Songs are played back within a limited playback range only, such as within one album.	<ul style="list-style-type: none"> ● “Playback Range” (☞ page 39) is set to “Selected Range.” → Change the playback range setting.
Data cannot be deleted on the player.	<ul style="list-style-type: none"> ● You cannot delete songs and photos on the player. → Delete them using the software you used to transfer the data, or Windows Explorer.

Continued ↓

Operation (continued)

Symptom	Cause/Remedy
Noise is generated.	<ul style="list-style-type: none"> ● A device emitting radio signals, such as a mobile phone is being used near the player. <ul style="list-style-type: none"> → When using devices such as mobile phones, keep them away from the player. ● Music data imported from CDs, etc., is damaged. <ul style="list-style-type: none"> → 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 “Supported file format” of “Specifications” (☞ page 154). <ul style="list-style-type: none"> → Convert the ATRAC audio data using the supplied MP3 Conversion Tool. → Some songs may not play back, depending on certain file specifications. ● Bluetooth connection is unstable. <ul style="list-style-type: none"> → You may hear noise under certain communicating conditions. Change the location and restart communication.
“VPT(Surround)” setting or “Clear Stereo” function is not effective.	<ul style="list-style-type: none"> ● When outputting to external audio speakers using the optional cradle, “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. ● If you have not applied the sound effects in “Sound Effect Preset,” “VPT(Surround)” does not work during Bluetooth communication (☞ page 92).
Cannot see the video, but can hear it.	<ul style="list-style-type: none"> ● The file is a .3gp file. (.3gp only supports audio.) ● The video file is not in a video folder. <ul style="list-style-type: none"> → Place the video files in a video folder by dragging and dropping.
Buttons do not work.	<ul style="list-style-type: none"> ● The HOLD switch is set to the HOLD position. <ul style="list-style-type: none"> → Slide the HOLD switch to the opposite position (☞ page 11). ● The player contains moisture condensation. <ul style="list-style-type: none"> → Wait a few hours to let the player dry. ● The remaining battery power is low or insufficient. <ul style="list-style-type: none"> → Charge the battery by connecting the player to a running computer (☞ page 114). → If you charge the battery and nothing changes, press the RESET button to reset the player (☞ page 124). ● While “Connecting” is being displayed, you cannot operate the player. <ul style="list-style-type: none"> → Disconnect the USB connection, then operate the player.

Operation (continued)

Symptom	Cause/Remedy
Playback does not stop.	<ul style="list-style-type: none"> • With this player, there is no difference between stopping and pausing. When you press the ► button, appears and playback pauses/stops.
The player does not work.	<ul style="list-style-type: none"> • The remaining battery power is insufficient. <ul style="list-style-type: none"> → Charge the battery by connecting the player to a running computer (☞ page 114). → If you charge the battery and nothing changes, press the RESET button to reset the player (☞ page 124).
Transferred data cannot be found.	<ul style="list-style-type: none"> • The built-in flash memory of the player was formatted using Windows Explorer. <ul style="list-style-type: none"> → Format the built-in flash memory on the player (☞ page 110). • The supplied USB cable was disconnected from the player while data was being transferred. <ul style="list-style-type: none"> → Transfer usable files back to your computer and format the built-in flash memory on the player (☞ page 110). • After dragging and dropping in Windows Explorer, data hierarchy levels do not correspond to the player (☞ page 116). • Transferred files are not in a playable format. For details, see “Supported file format” of “Specifications” (☞ page 154). <ul style="list-style-type: none"> → Convert the ATRAC audio data using the supplied MP3 Conversion Tool. → Songs or videos may not be played back, depending on the file format (☞ page 154). → Photos may not be displayed, depending on the file size or the file format (☞ page 154).
The volume is not loud enough.	<ul style="list-style-type: none"> • “AVLS (Volume Limit)” is enabled. <ul style="list-style-type: none"> → Disable “AVLS (Volume Limit)” (☞ page 99).
There is no sound from the right channel of the headphones. Or the right channel sound is heard from both sides of the headphones.	<ul style="list-style-type: none"> • The headphone jack is not fully inserted. <ul style="list-style-type: none"> → If the headphones are not connected correctly, sound will not be output properly. Insert the connecting pin of the headphones into the jack until it clicks (☞ page 10).
Playback has stopped suddenly.	<ul style="list-style-type: none"> • The remaining battery power is insufficient. <ul style="list-style-type: none"> → Charge the battery by connecting the player to a running computer (☞ page 114). • The songs or video files that cannot be played are played. <ul style="list-style-type: none"> → Play back the other song or video files.

Operation (continued)

Symptom	Cause/Remedy
<p>Thumbnails are not displayed.</p>	<ul style="list-style-type: none"> ● Songs do not have cover art information whose file format is supported by the player. Thumbnails are displayed only when songs have cover art information whose file format is supported by the player. → Transfer again using the supplied Windows Media player, or another transfer capable software. ● Thumbnail name does not match its video file, or the video file is not in the correct location. → Place a JPEG file of the same name as the video file into the folder under the “VIDEO” folder. ● If the photos do not have thumbnails that are complied with Exif file format, the thumbnails cannot be displayed. → Retransfer the photos using supplied Media Manager for WALKMAN.
<p>Cover art is not displayed.</p>	<ul style="list-style-type: none"> ● Cover art information is not included with the data. → The cover art only appears if the cover art information is included. You can set cover art using the supplied Windows Media Player 11, or another transfer capable software for setting cover art. For details on operation, refer to the Help or maker of the software. ● Some cover art is not displayed, depending on its file format.
<p>The player cannot format.</p>	<ul style="list-style-type: none"> ● The remaining battery is low or insufficient. → Charge the battery by connecting the player to a running computer (☞ page 114).
<p>The player’s power was inadvertently turned off, and then on again.</p>	<ul style="list-style-type: none"> ● If a malfunction occurs, the player turns off, and then on again automatically.
<p>The player does not work properly.</p>	<ul style="list-style-type: none"> ● The computer is started or restarted while the player is connected to it. → Reset the player by pressing the RESET button of the player. Disconnect the player when you start or restart the computer.
<p>There is no beep sound when the player is operated.</p>	<ul style="list-style-type: none"> ● “Beep Settings” is set to off. → Set “Beep Settings” to “On” (☞ page 100). ● The beep does not sound while the Bluetooth function is turned on.

Display

Symptom	Cause/Remedy
“□” appears for a title.	<ul style="list-style-type: none"> • Characters that cannot appear on the player are included in the title. <ul style="list-style-type: none"> → Rename the title with appropriate characters using the software you used to transfer or Windows Explorer.
“Unknown” is displayed for an album or artist name, etc.	<ul style="list-style-type: none"> • The data has no data information, such as an album or artist name, etc.
Garbled characters are displayed.	<ul style="list-style-type: none"> • The wrong language is selected. <ul style="list-style-type: none"> → Correct the setting of “Language Settings” (🔗 page 112), and then transfer data to the player again.
The screen darkens while displaying a photo.	<ul style="list-style-type: none"> • There was no operation attempted for the time selected in “Screensaver Timing” (🔗 page 102). <ul style="list-style-type: none"> → Press any button.
The screen turns off.	<ul style="list-style-type: none"> • There was no operation attempted for more than 3 minutes while the player was in the pause mode. <ul style="list-style-type: none"> → Press any button. • There was no operation attempted for the period you set in “Screensaver Timing” when “Screensaver” is set to “Blank” (🔗 page 102). <ul style="list-style-type: none"> → Press any button. → Set “Screensaver” to other than “Blank.” • “On-Hold Display” is set to “No.” <ul style="list-style-type: none"> → Slide the HOLD switch to the opposite position (🔗 page 11). → Set “On-Hold Display” to “Yes” (🔗 page 61). You can play back a video even when the HOLD function is activated.
A message appears.	<ul style="list-style-type: none"> • See the “Messages” (🔗 page 139).

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Power

Symptom	Cause/Remedy
Battery life is short.	<ul style="list-style-type: none"> • The operating temperature is below 5 °C (41 °F). → Battery life becomes shorter due to 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 (Ⓞ page 115). • You have not used the player for a prolonged period. → The efficiency of the battery will be improved by repeatedly charging and discharging it. • 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. • Copyright-protected contents are played. → When copyright-protected contents are played, battery life may be shorter. • The Bluetooth function is turned on. → While the Bluetooth function is turned on, the battery is consumed even if you do not operate the player. Turn off the Bluetooth function when you do not use it. • Radio waves are generated by ambient Bluetooth devices or wireless LAN devices. → While the Bluetooth function is turned on, radio waves generated by those devices may affect and shorten the battery life.
The player cannot charge the battery.	<ul style="list-style-type: none"> • The USB cable is not connected to a USB port 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). → 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.
The player turns off automatically.	<ul style="list-style-type: none"> • To avoid unnecessary battery consumption, the player automatically turns off. → Press any button to turn the player on.

Power (continued)

Symptom	Cause/Remedy
Charging completes very quickly.	<ul style="list-style-type: none"> • If the battery is already almost fully charged when charging begins, little time is needed to reach full charge.

Connection with a computer

Symptom	Cause/Remedy
MP3 Conversion Tool or Media Manager for WALKMAN does not start up.	<ul style="list-style-type: none"> • Your computer's system environment has changed, perhaps due to an update of the Windows operating system.
"Connecting" does not appear when connected to the computer with the supplied USB cable.	<ul style="list-style-type: none"> • The USB cable is not connected to a USB port on your computer properly. <ul style="list-style-type: none"> → Disconnect the USB cable, and then reconnect it. → Use the supplied USB cable. • A USB hub is being used. <ul style="list-style-type: none"> → Connecting the player via a USB hub may not work. Connect the player to your computer using the supplied USB cable. • The computer is running another software other than the one used for transferring. <ul style="list-style-type: none"> → 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. • "Connecting" may not appear on the player, depending on the software environment that is running on your computer. <ul style="list-style-type: none"> → Activate Windows Media Player, or Windows Explorer.
The player is not recognized by the computer when it is connected to the computer.	<ul style="list-style-type: none"> • The USB cable is not connected to a USB port on your computer properly. <ul style="list-style-type: none"> → Disconnect the USB cable, and then reconnect it. • A USB hub is being used. <ul style="list-style-type: none"> → Connecting the player via a USB hub may not work. Connect the player to your computer using the supplied USB cable. • The USB port on your computer may have a problem. Connect the player to another USB port on your computer.

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Connection with a computer (continued)

Symptom	Cause/Remedy
Data cannot be transferred to the player from your computer.	<ul style="list-style-type: none">● Transferring may be stopped due to noise such as static electricity, etc. This happens to protect data information.<ul style="list-style-type: none">→ Disconnect the player, then reconnect it.● If you transfer files by dragging and dropping on some computers that do not have Windows Media Player 11 installed, there may be limited files (AAC, video files, etc.) that can be transferred by dragging and dropping.<ul style="list-style-type: none">→ Install Windows Media Player 11 from the supplied CD-ROM, then transfer files by dragging and dropping again. Before installing the supplied 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 port on your computer properly.<ul style="list-style-type: none">→ Disconnect the USB cable, and then reconnect it.● There is not enough free space in the built-in flash memory.<ul style="list-style-type: none">→ Transfer any unnecessary data back to your computer to increase free space.● 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.<ul style="list-style-type: none">→ Transfer usable files back to your computer and format the built-in flash memory on the player (🔧 page 110).

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Connection with a computer (continued)

Symptom	Cause/Remedy
Data cannot be transferred to the player from your computer. (continued)	<ul style="list-style-type: none"> • The data may be damaged. <ul style="list-style-type: none"> → Delete the data that cannot be transferred from your computer, then import it to your computer again. When importing data to your computer, close any other applications to avoid data damage. • Transferable limit of files and folders has been exceeded. <ul style="list-style-type: none"> → Delete unnecessary data. • You are trying to transfer .m4a, .mp4, .3gp or .m4v files on a computer that already has Windows Media Player 10 installed. <ul style="list-style-type: none"> → Install Windows Media Player 11 from the supplied CD-ROM. • If you transfer data using an appropriate software for transferring, but the transfer is not made, refer to the manufacturer.
Only a small amount of data can be transferred to the player.	<ul style="list-style-type: none"> • There is not enough free space in the built-in flash memory. <ul style="list-style-type: none"> → Transfer any unnecessary data back to your computer to increase free space. • Data that cannot be played on the player is stored on the player. <ul style="list-style-type: none"> → 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.
The player becomes unstable while it is connected to the computer.	<ul style="list-style-type: none"> • A USB hub or USB extension cable is being used. <ul style="list-style-type: none"> → Connecting the player via a USB hub or extension cable may not work. Connect the player to your computer using the supplied USB cable.
You cannot delete or rename the folders.	<ul style="list-style-type: none"> • You cannot delete or rename the “MUSIC,” “MP_ROOT,” “VIDEO,” “PICTURES” and “PICTURE” folders.

Continued ↓

Bluetooth communication

Symptom	Cause/Remedy
Cannot complete pairing.	<ul style="list-style-type: none"> • The player and the device are too far from each other for Bluetooth communication. <ul style="list-style-type: none"> → Pair them within the communication range (☞ page 96). • The Bluetooth device does not support profiles that the player does. <ul style="list-style-type: none"> → If the supporting profiles are different, the player and the device cannot be paired.
Bluetooth communication does not start.	<ul style="list-style-type: none"> • You are attempting to establish the connection with Bluetooth device that is not designated for “Quick Connection” using the BLUETOOTH button. <ul style="list-style-type: none"> → Designate the desired device for “Quick Connection” in the “Quick Connection” setting (☞ page 88). • The Bluetooth device is not turned on. <ul style="list-style-type: none"> → Turn on the device and set it up for Bluetooth communication. • Bluetooth connection has ended. <ul style="list-style-type: none"> → Establish Bluetooth connection (☞ page 81). • Pairing has been failed or not been completed. <ul style="list-style-type: none"> → The player cannot communicate with the devices that are not paired with. Pair the player and the device (☞ page 78). • The player or the Bluetooth device has entered the standby mode. <ul style="list-style-type: none"> → Restore it from standby mode. • The battery is running low or nearly empty. <ul style="list-style-type: none"> → Charge the battery by connecting the player to running computer (☞ page 114). • The pairing on the player or on the Bluetooth device has been deleted by formatting, resetting the settings, etc. <ul style="list-style-type: none"> → Pair the player and the device again.

Continued ↓

Bluetooth communication (continued)

Symptom	Cause/Remedy
You cannot hear the sound from the communicating device.	<ul style="list-style-type: none"> ● The Bluetooth device is set to mute volume. → Change the settings to restore the audio function. ● The volume is set to zero. → You cannot wirelessly adjust the volume of certain devices. Turn up the volume of the device or the player by hand. ● The player or Bluetooth device is not turned on. → Turn it on and set it up for Bluetooth communication. ● The Bluetooth device may not support A2DP profile. → Check whether the device supports A2DP profile (☞ page 75). ● The playback of the song or the video has not started. → Start playing back the song or video (☞ page 21, 52). ● The Bluetooth device is not turned on. → Turn on the device and set it up for Bluetooth communication. ● Bluetooth connection has ended. → Establish Bluetooth connection (☞ page 81).
You cannot adjust the volume.	<ul style="list-style-type: none"> ● The HOLD switch is set to the HOLD position. → Slide the HOLD switch to the opposite position (☞ page 11). ● You cannot wirelessly adjust the volume of certain devices. Turn up the volume of the device or the player by hand.
The sound distorts or breaks.	<ul style="list-style-type: none"> ● A device using 2.4 GHz frequency, such as a wireless LAN device, cordless telephone, or microwave oven, is in use near the player or the device. → Do Bluetooth communication away from electronic devices. ● The communication is interfered with by obstacles such as metal, wall, or people. → Remove the obstacles or change the location to secure the communication. ● If you have not applied the sound effects in “Sound Effect Preset,” “VPT(Surround)” does not work during Bluetooth communication (☞ page 92).

Continued ↓

Bluetooth communication (continued)

Symptom	Cause/Remedy
The sound breaks frequently.	<ul style="list-style-type: none">● A device using 2.4 GHz frequency, such as a wireless LAN device, cordless telephone, or microwave oven, is in use near the player or the device. → Do Bluetooth communication away from the electronic devices.● The communication is interfered with by obstacles such as metal, wall, or people. → Remove the obstacles or change the location to secure the communication.● The bit rate setting is improper for the using environment. → The stability of the communication is based on the bit rate setting and the using environment. If the communication is unstable, adjust the bit rate in “Sound Quality Mode” to secure the communication (🔧 page 91).
Noise is generated.	<ul style="list-style-type: none">● Bluetooth connection is unstable. → You may hear noise under certain communication conditions. Change the location and restart communication (🔧 page 86).● You may hear noise from only one side of headphones depending on the connection status. → End the Bluetooth connection and reestablish it.
Video sound delays	<ul style="list-style-type: none">● When you listen to video sound from certain Bluetooth devices, the sound may slightly lag behind the video.

Continued ↓

Other

Symptom	Cause/Remedy
There is no beep sound when the player is operated.	<ul style="list-style-type: none">• “Beep Settings” is set to “Off.” → Set “Beep Settings” to “On” (☞ page 100).• The beep does not sound when the player is connected to the optional cradle, or another device.• The beep does not sound while the Bluetooth function is turned on.
The player gets warm.	<ul style="list-style-type: none">• The player may be 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 concern. Set the player aside for a while to allow it to cool down.
The screen turns on whenever songs change.	<ul style="list-style-type: none">• “New Song Pop Up” is set to “On.” → Set “New Song Pop Up” to “Off” (☞ page 33).
The date and time have been reset.	<ul style="list-style-type: none">• 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 FULL appears on the screen and set the date and time again (☞ page 104).

Messages

Follow the instructions below if a message appears in the display.

Message	Meaning	Remedy
All group numbers have been used.	<ul style="list-style-type: none"> • The total number of list items (except for the song lists) exceeds the limit (8,192 items). • The total number of songs registered in the playlists has reached 65,535. 	<p>Songs exceeding the limit are stored in “Others.”</p> <p>→ If you cannot find a song, search for it in the “Others” list first.</p> <p>→ If you do not want to store songs that exceed the limit in the “Others” list, delete unnecessary songs from the player using the software you used to transfer the songs, or Windows Explorer.</p> <p>→ If the total number of playlists registered to the player exceeds 65,535, playlists exceeding this number cannot be displayed. Decrease the number of playlists (delete the playlists) using the software you used to transfer the playlists.</p>
Bluetooth device not found.	The player cannot find Bluetooth devices that are available for pairing.	Select “Search again” from the list.
Cannot change “Screensaver Timing” when “Type” is “None.”	You are trying to set “Screensaver timing” while “Type” is set to “None.”	Set the screensaver type to other than “None.”
Cannot complete during playback. Please pause playback and then try again.	You are trying to select an unselectable item during playback.	Pause playback, and try the operation again.
Cannot complete while Bluetooth function is enabled. End Bluetooth function.	You are trying to operate functions that are not compatible with the Bluetooth function.	Turn off the Bluetooth function.
Cannot delete the connected Bluetooth device. Please disconnect.	You are trying to delete the currently connected Bluetooth device.	End the Bluetooth connection (🔌 page 81), and then delete Bluetooth device (🔌 page 90).

Message	Meaning	Remedy
Cannot display folders beyond this level. Place songs in folders up to the eighth level.	The player cannot play songs beyond the 8th folder level. (🔗 page 117)	Move the song(s) beyond the 8th folder level to a lesser folder level using Windows Explorer.
Cannot pair more than 8 Bluetooth devices.	You are trying to pair additional Bluetooth device when the player has been already paired with 8 devices.	The player cannot pair with more than 8 devices. Delete unnecessary device from the player.
Cannot play; file format is not supported.	<ul style="list-style-type: none"> You are trying to play a file that cannot be played on the player. You transferred an audio file to video folders by dragging and dropping. 	You cannot play a song in an unsupported format file (🔗 page 154). Place them in folders under the “MUSIC” folder.
Cannot play; file is damaged. Please connect to compliant software or device and transfer again.	The file you are trying to play is damaged.	Transfer the file to the player again.
Cannot play; the license is expired.	The playback limitation period of the song has expired.	Update the license information of songs using the software used for transferring.
Cannot start pairing while connected to a Bluetooth device. Please disconnect.	The player is trying to start pairing while Bluetooth connection has been established.	End the Bluetooth connection (🔗 page 81), and then start pairing (🔗 page 78).
Change connected Bluetooth device?	You are trying to establish another Bluetooth connection while ending current connection.	Select “Yes” if you want to change the device to establish the connection.
Could not connect.	The player failed to establish Bluetooth connection.	Remove obstacles or change the location to secure Bluetooth connection.
Could not find selected device.	The player cannot find the Bluetooth device that you have selected from the list of Bluetooth devices.	Make sure whether there no obstacles between the player and Bluetooth device.
Delete failed.	The player failed to delete video files.	Delete the video using the software used to transfer the video 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.

Message	Meaning	Remedy
Enter Passkey	The Bluetooth device is requiring entering passkey to start pairing.	Enter the passkey to complete the pairing (☞ page 78).
Firmware update failed.	Updating the firmware failed to complete.	Follow the instructions displayed on your computer to retry updating the firmware.
Library error encountered. Please connect to compliant software or device and transfer again.	The database for songs, videos or photos is damaged.	→ Transfer songs, videos, or photos again. → If the remedy above does not solve the problem, format the built-in flash memory (☞ page 110), then transfer the data again.
LOW BATTERY. Please Charge.	The player's battery is running low.	Charge the battery (☞ page 114).
No devices have been paired. Perform pairing.	The player has not been paired with any Bluetooth devices.	Pair the player and the Bluetooth device (☞ page 78).
No items found starting with this letter.	No songs exist that start with the selected initial letter, during the "Initial Search" function.	Press the ▲/▼/◀/▶ button to select other initial letters.
No Library exists. Please connect to compliant software or device and transfer again.	Even after data is transferred, there is no information about data transferred to the player.	Transfer the data again to the player using Windows Explorer, or another transfer capable software.
No photos are available for display.	There are no photos that can be displayed on the player.	Transfer photos in a supported format.
No photos are available for display. Please connect to compliant software or device and transfer photos.	You are trying to display a photo when there are no photos stored on the player.	Transfer photos to the player.
No playable songs are available.	You are trying to start playback by selecting "Play" from the option menu, but there are no songs in the selected folder.	Transfer songs in the supported format, and start playback.
No playlists available. Please connect to compliant software or device and transfer playlists.	When you select  (Playlists) from the Home menu, and there are no playlists on the player, this message appears.	Transfer playlists to the player using Windows Explorer, or another software for transferring.

Message	Meaning	Remedy
No songs available for playback. Please connect to compliant software or device and transfer songs.	You are trying to start playback even when there are no songs on the player, or no songs in the selected playlist.	Transfer songs to the player.
No songs in selected item.	There are no songs in the selected folder.	Transfer songs into folders under the "MUSIC" folder using Windows Explorer, or another software for transferring.
No videos available for playback. Please connect to compliant software or device and transfer videos.	You are trying to start playback when there are no videos stored on the player.	Transfer videos to the player.
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.
On hold... Cancel HOLD function to activate controls.	The player cannot be operated because the HOLD switch is set to the HOLD position.	To operate the player, slide the HOLD switch to the opposite position (☞ page 11).
Pairing failed.	The pairing is failed to complete.	Perform pairing again (☞ page 78).
Quick Connection target is not set.	No devices are designated for "Quick Connection."	Designate a Bluetooth device for "Quick Connection" (☞ page 88).
The device's memory was not formatted correctly. Please re-format using Settings menu.	<ul style="list-style-type: none"> • The built-in flash memory was not formatted properly. • The built-in flash memory was formatted on a computer. 	Select "Settings" - "Common Settings" - "Format" to format the built-in flash memory again (☞ page 110).
You have received a pairing request from a Bluetooth device. Start pairing?	The player has received a request for pairing from Bluetooth devices.	Select "Yes" if you want the pairing or select "No" if you do not want the pairing.

Precautions

The following FCC statement applies only to the version of this model manufactured for sale in the USA. Other versions may not comply with FCC technical regulations.

NOTE:

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

You are cautioned that any changes or modifications not expressly approved in this manual could void your authority to operate this equipment. This equipment must not be co-located or operated in conjunction with any other antenna or transmitter.

If you have any questions about this product:

Visit: www.sony.com/walkmansupport

Contact: Sony Customer Information Service Center at 1-(866)-456-7669

Write: Sony Customer Information Service Center
12451 Gateway Blvd., Fort Myers, FL 33913

Declaration of Conformity

Trade Name: SONY
Model No.: NWZ-A826/A828/A829
Responsible Party: Sony Electronics Inc.
Address: 16530 Via Esprillo, San Diego CA 92127 U.S.A.
Telephone Number: 858-942-2230

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

The following FCC/IC statement applies only to the version of this model manufactured for sale in the USA and Canada. Other versions may not comply with FCC/IC technical regulations.

This equipment complies with FCC/IC radiation exposure limits set forth for uncontrolled equipment and meets the FCC radio frequency (RF) Exposure Guidelines in Supplement C to OET65 and RSS-102 of the IC radio frequency (RF) Exposure rules.

This equipment has very low levels of RF energy that it is deemed to comply without testing of specific absorption ratio (SAR).

For customers in Canada

Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of this device.

Continued ↓

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.

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.

Continued ↓

On safety

- Be sure not to short-circuit the terminals of the player with other metallic objects.
- 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.
- 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 put the player into 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.

Continued ↓

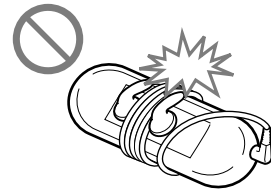
On installation

- 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.
- Never use the player where it will be subjected to extremes of light, temperature, moisture or vibration. The player may become discolored, distorted or damaged.
- Never leave the player exposed to high temperature, such as in a car parked in the sun or under direct sunlight.
- 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.
- If the player causes interference to radio or television reception, turn the player off and move it away from the radio or television.
- 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.



- 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.



- 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.

Continued ↓

On heat build-up

Heat may build up in the player while charging if it is used for an extended period of time.

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 so that loud sound will not hurt 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.

Warning

If there is lightning when you are using the player, take off the headphones immediately.

If you experience an allergic reaction to the supplied headphones, stop using them at once and contact a doctor.

On the use

- When using a strap (sold separately), be careful to avoid hooking 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.
- 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.

On the LCD

- 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.
- 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.

On cleaning

- Clean the player's case with a soft cloth, such as a cleaning cloth for eyeglasses.
- If the player's case becomes 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.

If you have any questions or problems concerning the player, please consult your nearest Sony dealer.

Continued ↓

Important Notice

- Copyright laws prohibit reproducing the software or the manual accompanying it in whole or in part, or renting the software without the permission of the copyright holder.
- In no event will SONY be liable for any financial damage, or loss of profits, including claims made by third parties, arising out of the use of the software supplied with this player.
- In the event a problem occurs with this software as a result of defective manufacturing, SONY will replace it. However, SONY bears no other responsibility.
- The software provided with this player cannot be used with equipment other than that to which it is so designated.
- Please note that, due to continued efforts to improve quality, the software specifications may be changed without notice.
- 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.

Continued ↓

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.

- 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.

About the 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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This product is protected by certain intellectual property rights of Microsoft Corporation. Use or distribution of such technology outside of this product is prohibited without a license from Microsoft or an authorized Microsoft subsidiary.

Content providers are using the digital rights management technology for Windows Media contained in this device (“WM-DRM”) to protect the integrity of their content (“Secure Content”) so that their intellectual property, including copyright, in such content is not misappropriated.

This device uses WM-DRM software to play Secure Content (“WM-DRM Software”). If the security of the WM-DRM Software in this device has been compromised, owners of Secure Content (“Secure Content Owners”) may request that Microsoft revoke the WM-DRM Software’s right to acquire new licenses to copy, display and/or play Secure Content. Revocation does not alter the WM-DRM Software’s ability to play unprotected content. A list of revoked WM-DRM Software is sent to your device whenever you download a license for Secure Content from the Internet or from a PC. Microsoft may, in conjunction with such license, also download revocation lists onto your device on behalf of Secure Content Owners.

Specifications

Supported file format

Music			
File format	MP3(MPEG-1 Layer3) file format, ASF file format, MP4 file format, Wave-Riff file format		
File extension	MP3 (.mp3), WMA* ¹ (.wma), AAC-LC* ² (.mp4, .m4a, .3gp), Linear PCM (.wav)		
Codec	MP3	Bit rate: 32 to 320 kbps (Supports variable bit rate (VBR)) Sampling frequency* ³ : 32, 44.1, 48 kHz	
	WMA* ¹	Bit rate: 32 to 192 kbps (Supports variable bit rate (VBR)) Sampling frequency* ³ : 44.1 kHz	
	AAC-LC* ²	Bit rate: 16 to 320 kbps (Supports variable bit rate (VBR))* ⁴ Sampling frequency* ³ : 8, 11.025, 12, 16, 22.05, 24, 32, 44.1, 48 kHz	
	Linear PCM	Bit rate: 1,411 kbps Sampling frequency* ³ : 44.1 kHz	
Video			
File format	MP4 file format, "Memory Stick" video format		
File extension	.mp4, .m4v		
Codec	Video	AVC (H.264/AVC)	Profile: Baseline Profile Level: Max. 1.3 Bit rate: Max. 768 kbps
		MPEG-4	Profile: Simple Profile Bit rate: Max. 2,500 kbps
	Frame rate: Max. 30 fps Resolution: Max. QVGA (320 × 240)		
	Audio	AAC-LC	Channel number: Max. 2 channels Sampling frequency* ³ : 24, 32, 44.1, 48 kHz Bit rate: Max. 288 kbps per 1 channel
File size	Max. 2 GB		
The number of files	Max. 1,000		
Photo* ⁵			
File format	Compatible with DCF 2.0/Exif 2.21file format		
File extension	.jpg		
Codec	Profile: Baseline Profile Number of pixels: Max. 4,000 × 4,000 pixels (16,000,000 pixels)		
The number of files	Max. 10,000		

*¹ WM-DRM 10 files are compatible.

*² Copyright protected AAC-LC files cannot be played back.

*³ Sampling frequency may not correspond to all encoders.

*⁴ Non-standard bit rates or non-guaranteed bit rates are included depending on the sampling frequency.

*⁵ Some photo files cannot be played back, depending on their file formats.

Continued ↓

Maximum recordable number of songs and time (Approx.)

The approximate times are based on the case in which you transfer or record only 4 minutes 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-A826			NWZ-A828	
Bit rate	Songs	Time	Songs	Time
48 kbps	2,450	163 hr. 20 min.	5,050	336 hr. 40 min.
64 kbps	1,850	123 hr. 20 min.	3,750	250 hr. 00 min.
128 kbps	925	61 hr. 40 min.	1,850	123 hr. 20 min.
256 kbps	460	30 hr. 40 min.	945	63 hr. 00 min.
320 kbps	370	24 hr. 40 min.	755	50 hr. 20 min.

NWZ-A829		
Bit rate	Songs	Time
48 kbps	10,200	680 hr. 00 min.
64 kbps	7,650	510 hr. 00 min.
128 kbps	3,800	253 hr. 20 min.
256 kbps	1,900	126 hr. 40 min.
320 kbps	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-A826	NWZ-A828	NWZ-A829
Bit rate	Time	Time	Time
Video Format: 384 kbps Audio Format: 128 kbps	15 hr. 00 min.	30 hr. 40 min.	62 hr. 00 min.
Video Format: 768 kbps Audio Format: 128 kbps	8 hr. 30 min.	17 hr. 30 min.	35 hr. 30 min.

Maximum recordable number of photos that can be transferred (Approx.)

Max. 10,000

Recordable number of photos may be less depending on file sizes.

Continued ↓

Capacity (User available capacity)*¹

NWZ-A826: 4 GB (Approx. 3.57 GB = 3,840,638,976 bytes)

NWZ-A828: 8 GB (Approx. 7.30 GB = 7,840,956,416 bytes)

NWZ-A829: 16 GB (Approx. 14.7 GB = 15,841,820,672 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)

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 °F to 95 °F)

Power source

- Built-in rechargeable lithium-ion battery
- USB power (from a computer via the supplied USB cable)

Charging time

USB-based charging

Approx. 3 hours (full charge), Approx. 1.5 hours (approx. 80 %)

Continued ↓

Battery life (continuous playback)

By setting as follows, a longer battery life can be expected.

The times below are approximated when “New Song Pop Up” (☞ page 33), “Clear Stereo” (☞ page 48), “DSEE(Sound Enhancer)” (☞ page 49), “Dynamic Normalizer” (☞ page 51), “Equalizer” (☞ page 43) and “VPT(Surround)” (☞ page 46) are deactivated, and “Screensaver” (☞ page 101) is set to “Blank.”

Furthermore, for videos, the time approximated when the brightness of the screen (☞ page 103) is set to “3,” or when “Sound Quality Mode” is set to “Normal.”

The time below may differ depending on ambient temperature or the status of use.

Battery life may be shortened by the radio waves generated by ambient Bluetooth devices or wireless LAN devices, or by the communication distance between the player and the communicating device.

	NWZ-A826/A828/A829 (Bluetooth function is on)	NWZ-A826/A828/A829 (Bluetooth function is off)
Music		
Playback at MP3 128 kbps	Approximately 15 hours	Approximately 36 hours
Playback at WMA 128 kbps	Approximately 15 hours	Approximately 35.5 hours
Playback at AAC-LC 128 kbps	Approximately 15 hours	Approximately 33.5 hours
Playback at Linear PCM 1411 kbps	Approximately 15 hours	Approximately 34.5 hours
Video (Only sound in Bluetooth communication)		
Playback at MPEG-4 384 kbps	Approximately 7 hours	Approximately 10 hours
Playback at MPEG-4 768 kbps	Approximately 7 hours	Approximately 9 hours
Playback at AVC 384 kbps	Approximately 6 hours	Approximately 8 hours
Playback at AVC 768 kbps	Approximately 6 hours	Approximately 8 hours

Display

2.4-inch, TFT color display with white LED-backlight, QVGA (240 × 320 pixels), 262,144 colors

Dimensions (w/h/d, projecting parts not included)

50.2 × 93.6 × 9.3 mm (2 × 3 ³/₄ × ³/₈ inches)

Dimension (w/h/d)

51.0 × 93.9 × 9.3 mm (2 ¹/₈ × 3 ³/₄ × ³/₈ inches)

Mass

Approx. 58 g (Approx. 2.1 oz)

Bluetooth Specifications

- Communication system: Bluetooth specification version 2.0
- Output: Bluetooth specification Power Class 2
- Maximum communication range: Line of sight approx. 10 meters (30 feet)*1
- Frequency band: 2.4 GHz band (2.4000 GHz – 2.4835 GHz)
- Modulation method: FHSS
- Compatible Bluetooth profiles*2
 - A2DP (Advanced Audio Distribution Profile)
 - AVRCP (Audio Video Remote Control Profile)

Bluetooth Specifications (continued)

- Supported Codecs*³: SBC (Subband Codec)
- Transmission range (A2DP): 20 - 20,000Hz (Sampling frequency 44.1kHz)
 - *¹ The actual range will vary depending on factors such as obstacles between devices, magnetic fields, static electricity, reception sensitivity, antenna (aerial) performance, operating system, software application, etc.
 - *² Bluetooth profiles are standardized according to the purpose of the Bluetooth device.
 - *³ Codec indicates the audio signal compression and conversion format.

System Requirements

- Computer
 - IBM PC/AT or compatible computer preinstalled with the following Windows operating systems*¹:
 - Windows XP Home Edition (Service Pack 2 or later) / Windows XP Professional (Service Pack 2 or later) / Windows Vista Home Basic / Windows Vista Home Premium / Windows Vista Business / Windows Vista Ultimate
 - Not supported by 64 bit version OS.
 - Not supported by OSs other than above.
 - *¹ Excluding OS Versions not supported by Microsoft.
- CPU: Pentium 4 1.0 GHz or higher
- RAM: 512 MB or more
- Hard Disk drive: 380 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)
To create original CDs, a CD-R/RW drive is required.
- Sound board
- USB port (Hi-Speed USB is recommended)
- Microsoft .NET Framework 2.0 or 3.0, QuickTime 7.2, Internet Explorer 6.0 or 7.0, Windows Media Player 10 or 11 (Windows Media Player 11 recommended. Some computers that already have Windows Media Player 10 installed may encounter file limitation (AAC, video files, etc.) that can be transferred by dragging and dropping.).
- Adobe Flash Player 8 or higher needs to be installed.
- 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

Design and specifications are subject to change without notice.

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