

DIGITALWAY

DIGITAL COOL
m210

FG100



This manual explains how to use this product and precautions.
 (Contents are subject to change without prior notice for function enhancement or specification change.)
 Please read this manual carefully before you use the product.
 MPIO will exert our efforts to repay customer's consideration with the better product.

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DIGITALWAY

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1. Usage Precautions

1 Usage Environment

* Please refrain from using or keeping the product in the following places.

- ① Place with high temperature
- ② Place with low temperature
- ③ Humid area
- ④ Place with high possibility of flooding
- ⑤ Dusty area
- ⑥ Place under the direct sunlight
- ⑦ Inside the car
- ⑧ Near the heater
- ⑨ Place with much vibration
- ⑩ Close to the magnetic materials

2 Product Safety

- ① Please do not apply shock to the product.
- ② Do not disassemble, repair or modify the product at your own discretion.
- ③ Be careful not to insert any foreign object inside the product.
(e.g., clip, paper, water or beverage)
- ④ If the product surface is contaminated with the foreign object, scrub it with soft cloth.
Do not use the chemical solution on it

3 User Safety

- ① Traffic safety
 - Please refrain from using this product (listening to music or FM) using the headset or the earphone while riding on the bicycle, motorcycle or car. There is a risk of a car accident. Additionally, it may violate the regional laws and regulation.
 - Please reduce headset or earphone volume when you use this product while you're walking. There is a risk of an accident.
- ② Protecting your hearing capability
 - Please refrain from listening to music for a long time. Health expertise pointed out the risk of impairing your hearing capability.

4 Data Storage

- ① Digitalway bears no responsibility over data loss or damage that occurs during data transmission between the product and the computer.
- ② Make sure to back up the important data saved in the product. Data stored in the product can be lost due to product breakdown, malfunction or other reasons (external shock or power failure). In this case, Digitalway bears no responsibility.
- ③ You should backup the data saved in the product before requesting the after service. Digitalway will not back up your data when received the service request. Additionally, Digitalway will not bear any responsibility over data loss occurring during the service.
- ④ Hold the plug tightly when inserting/disconnecting the USB cable to/from the PC.
- ⑤ Do not apply shock or shake while the product is connected to the PC.

2. Product Composition

Main Unit



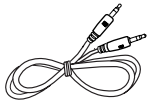
Unit Earphone



USB Cable



Line-in Cable



Utility CD



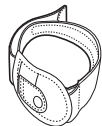
Manual



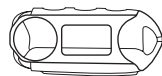
Neck String (optional)



Arm Band (optional)



Case (optional)



▲ The accessories may look different from the image shown here, and subject to change without prior notice.

3. Product Specification

Dimension	31 x 82 x 28.5 (W x H x D) mm	
Weight	40.5g	
Display	4 Lines, 2 Areas Color OLED (Orange & Blue)	
Memory	128MB, 256MB, 512MB, 1GB	
Decoding	MP3, WMA, ASF	
Encoding	MP3	
Audio	Frequency Range	20 Hz ~ 20 KHz
	S/N Ratio	90 dB
	THD	0.1
	Output	18mW/channel (European area: 6mW/channel)
FM Tuner	FM Tuner Frequency Range	76 ~ 108 MHz
	S/N Ratio	50 dB
	Preset Station	20
Language	Menu	English
	Information	55 languages
PC Interface	PC Interface	USB 2.0 (USB 1.1 compatible)
	Transfer Rate	About 40Mbps
	Supported OS	Windows : 98 / SE / ME / 2000 / XP Macintosh: Macintosh OS version 9.2 or late
Battery	Type	AA x 1
	Battery Life	Approx. 43 hours
Operational temperature	0°C ~ 40°C	

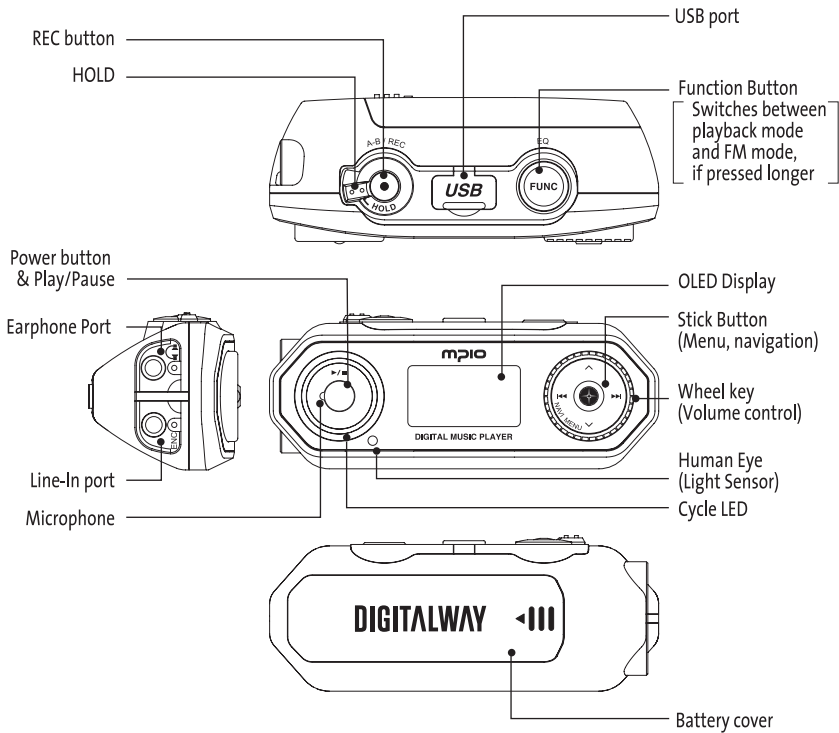
▲ - The actual available capacity can be reduced by the logical file system regardless of the physical capacity.

- Playback duration can vary according to the usage method and the menu setting.

- Data rate can vary depending on the PC specification.

- Connection to the PC using the extension code like the USB hub will not be guaranteed.

4. Name of the part



5. Saving the Music File

STEP 1 Installing a Driver



Windows ME/2000/XP user does not have to install a driver.
However, if a driver needs to be installed, install it before connecting to the PC.

- ① Insert the utility CD into the CD-ROM drive in the PC.
- ② Select the [Driver] from the utility menu and proceed to install the driver according to the shown instruction.

STEP 2 Saving the Music File

- ① Press and hold [▶/■] button to turn on the player and then, connect the player to the PC using the USB cable.
- ② Click the [Windows Explorer] icon on the desktop screen.
The PC will recognize FG100 as a removable disc. Therefore, you can save/delete the data, or create a folder, using the same method as you use the normal hard disc in the PC.
 - ① Copy & Paste: "Copy" the data and paste it in the removable disc (FG100).
 - ② Drag & Drop: Select the data and then, drag the mouse pointer to the removable disc (FG100) and drop it.
- ③ If you save all files you want, disconnect the player from the PC according to the steps described in "Disconnect the Player from the PC".

STEP 3 Disconnecting the Player from the PC

Take the following steps to disconnect the player from the PC safely. Please be kindly noted that data loss or player malfunction may occur, if you fail to comply with the instructions.

- ① Move the mouse pointer on the Hot Plug icon on the Windows Task Bar and click the right mouse button.



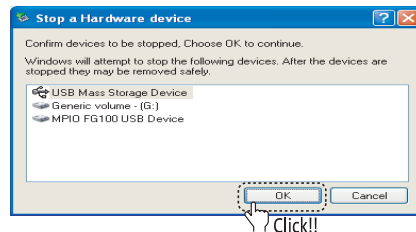
- ② When the "Safely Remove Hardware" message appears, click it.
Hardware disconnecting command can vary depending on the Windows OS version.



- ③ When "Safely Remove Hardware" window appears, select the "USB Mass Storage Device" from the hardware device list window and click the [Stop] button.



- ④ When the "Stop a Hardware Device" window appears, select the "USB Mass Storage Device" and click the [OK] button.



- ⑤ When the "Safely Remove Hardware" window appears, click the [OK] button and disconnect the player from the PC.

Windows 98 user
- Windows 98 does not provide any command that enables to disconnect the player from the PC safely. Therefore, check the cycle LED flash status before disconnecting the player from the PC. Wait until the cycle LED goes off before disconnecting the player.

6. Playback Mode

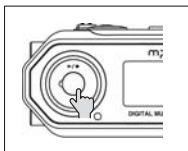
1 Listening to Music

1 Power on/off

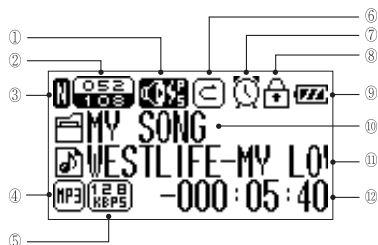
Press and hold the [▶/■] button.

2 Play/Pause

Press the [▶/■] button.



3 OLED Display information during playback



- ① Phillips effect setting status
- ② Number of the music being played back/Total number of music files
- ③ EQ menu setting status
- ④ File format
- ⑤ Bit rate
- ⑥ Repeat menu setting status
- ⑦ Sleep menu setting status
- ⑧ Hold status
- ⑨ Remained battery amount
- ⑩ Folder name
- ⑪ File name
- ⑫ Playback time

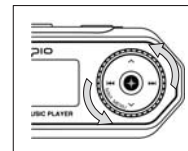
▲ If no button is pressed, the OLED screen saved will be started. At this time, the cycle LED will flash. To turn the OLED on, press the [FUNC] button.

4 Select next/previous music & Forward/Rewind function

- ① Push the stick button to the ◀◀ direction to use the rewind function. If pressed shortly, the previous music will be played back.
- ② Push the stick button to the ▶▶ direction to use the fast forward function. If pressed shortly, the previous music will be played back.

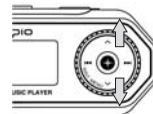
5 Volume control

- ① Turn the wheel key to control volume (Volume level: 0~40).



6 Navigation

- ① Press the stick button during music file playback.
- ② Move the stick button to the ^, v direction to select the music file you want.
- ③ Press the stick button to play back the selected music file.

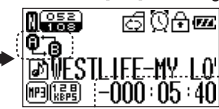
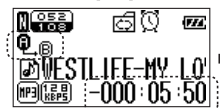


< Moving into/out of the folder >
 * Moving into the folder: Select a folder and press the stick button. Or, press the stick button to the ▶▶ direction.
 * Moving out of the folder: Press the [FUNC] button to move to the upper folder. Or press the stick button to the ◀◀ direction.

2 Additional Function

Mark Replay







- ① Press the [REC] button.
- ② Press the [REC] button again.



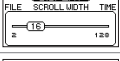




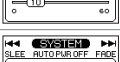


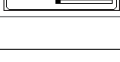


(Shows the repeat setting time)

▲ Press the [REC] button to release the Mark Replay function. Press the [▶/■] button to pause/play the repeat section.

3 Menu Configuration of Playback Mode

Menu	OLED Display	Description
MODE		Selects a mode 1. Playback / 2. Recording / 3. FM Tuner
EQ		Selects the equalizer mode that fits for the music genre. 1. Normal, 2. Pop, 3. Rock, 4. Jazz, 5. Classic, 6. Vocal, 7. User, 8. Reset
EFFECT		Selects a sound effect 1. Off, 2. Pure Studio, 3. Concert, 4. Groove, 5. Dynamic Bass
REPEAT		Sets the playback order 1. Normal, 2. Repeat One, 3. Repeat All, 4. Random, 5. Directory Normal, 6. Directory All, 7. Directory Random
ERASE		Deletes a file(s) saved in the memory. 1. Erase File, 2. Erase All ⚠ The erasing function is available in the stop mode only.
LANGUAGE		Sets the language to display the ID3 tag and WMA file information on the OLED. File property display is affected by the OS that the file was created. Select Korean for the MP3 file created in the Korean Windows version, whereas select English for the one created in the English Windows version. A: Afrikaans / Albanian / Arabic / Azeri B: Basque / Belarusian / Bulgarian C: Catalan / Chinese / Chinese / Croatian / Czech D: Danish / Dutch E: English / Estonian F: Faroese / Farsi / Finnish / French G: Galician / German / Greek H: Hebrew / Hungarian I: Icelandic / Indonesian / Italian J: Japanese K: Kazakh / Korean / Kyrgyz L: Latvian / Lithuanian M: Macedonian / Malay / Mongolian N: Norwegian P: Polish / Portuguese R: Romanian / Russian S: Serbian / Slovak / Slovenian / Spanish / Swahili / Swedish T: Tatar / Thai / Turkish U: Ukrainian / Urdu / Uzbek V: Vietnamese

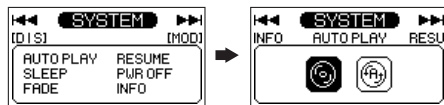
Menu	OLED Display	Description
DISPLAY	HUMAN EYE 	Automatically adjusts brightness of the OLED, depending on brightness of the surroundings 1. On, 2. Off
	FILE INFO 	Selects the file property to be displayed on the OLED. 1. Tag information, 2. File name
	SCROLL WIDTH 	Adjusts speed of scrolling the file information. 2 ~ 16 (default) ~ 128
	TIME INFO 	Selects the playback time display method 1. No count, 2. Count
	CYCLE LED 	Selects the cycle LED setting status during playback 1. On, 2. Off
SYSTEM	AUTO PLAY 	Sets whether playback will start when the power is turned on. 1. Off, 2. On
	RESUME 	Sets the file playback position when the power is turned off and on again. 1. Initial, 2. Stopped
	SLEEP 	Sets the sleep time. 0 (default) ~ 60mins.
	AUTO POWER OFF 	Pause the device and set the time duration when the device power is automatically turned off. 3(Default) ~ 30mins.
	FADE 	Sets the fade function during playback 1. Off, 2. On
	INFORMATION 	Displays information on the player. Firmware version, Used memory/total memory.

4 Changing the Menu Settings (e.g. Changing System/Fade menu)

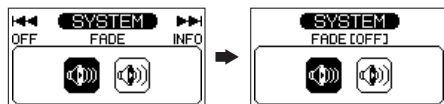
- ① Press and hold the stick button to enter into the menu.



- ② Push the stick button to the \lll , \ggg direction to select the "SYSTEM". Then, press the stick button.




- ③ Push the stick button to the \lll , \ggg direction to select the "FADE". Then, press the stick button



- ④ Push the stick button to the \ggg direction to select the "ON". Then, press the stick button to save the setting values.



-  < Moving within the menu >
 * FUNC button: Moves to the upper menu item.
 * REC button: Exits from the menu setting mode.

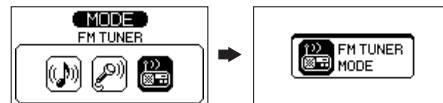
7. FM Tuner Mode

1 Switching to the FM Tuner Mode

- ① Press and hold the stick button to enter into the menu. Press the stick button in the MODE menu.



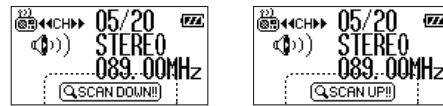
- ② Push the stick button to the \ggg direction to select the "FM TUNER MODE". Then, press the stick button.



-  * To switch to the FM TUNER mode directly from the MP3 mode, press and hold the [FUNC] button.

2 Adjusting the Frequency

- ① Push the stick button to the \lll , \ggg direction to adjust the frequency.
 ② Push and hold the stick button to the \lll , \ggg direction for automatic scanning of the available frequencies.

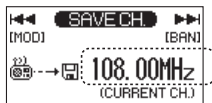


(Shows the SCAN UP/DOWN)

3 Additional Function

Saving the FM Radio Frequency

- Press and hold the stick button to enter into the menu when you find the frequency to save.
- Push the stick button to the \ll , \gg direction to select "SAVE CH". Then, press the stick button to save.



- Select the station number and press the stick button to save the channel.

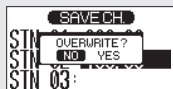


* You can also save the frequency if you press the [REC] button while listening to the FM.

▲ Cautions when using the frequency saving function >

If you select the station containing other frequency, the "OVERWRITE?" message will appear.

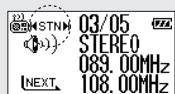
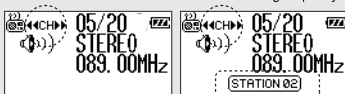
You can select 20 stations. (STN 01 ~ STN 20)



<Channel mode & Station mode> ※ Press the [FUNC] button to switch between two modes.

* Channel mode: You can push the stick button to the \ll , \gg direction to move to the receiving frequency.

* (Shows if the station is already occupied.)



Station mode: You can move to the saved channel only.

4 Recording the FM Radio (Records the contents of FM reception.)

- Press and hold the [REC] button.










- Press the [REC] button again to pause recording.
 - To resume recording, press the [REC] button again.
- Press and hold the [REC] button to stop recording.

* The FM recording file will be saved in the "RECORD" folder.



5 Menu Configuration of FM Tuner Mode

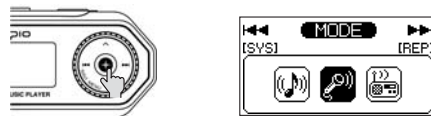
Menu	OLED Display	Description
MODE		Selects a mode 1. Playback, 2. Recording, 3. FM Tuner
SAVE CHANNEL		Shows the channel saving status. STN 01 ~ STN 20
FM BAND		Shows the frequency range by country. 1. US/EU/KR/CN: 87.5 ~ 108MHz 2. Japan: 76 ~ 92MHz 3. Worldwide: 76 ~ 108MHz
AUTO PRESET		Sets the Auto Preset function. If you use the Auto Preset function, the saved station will be deleted. 1. No, 2. Yes

Menu	OLED Display	Description
SEEK STEP		Selects the frequency seeking steps. 1. 100KHz, 2. 50KHz
FM REC	QUALITY 	Selects the recording quality. Sample rate: 32KHz, 44.1KHz Bit rate: 32KHz: 48Kbps ~ 320Kbps 44.1KHz: 48Kbps ~ 128Kbps
	RECORD GAIN 	Selects the recording sound level. 1. Low, 2. Middle, 3. High
DISPLAY	HUMAN EYE 	Automatically adjusts brightness of the OLED, depending on brightness of the surroundings. 1. On, 2. Off
	CYCLE LED 	Selects the cycle LED setting status during playback. 1. On, 2. Off
SYSTEM	SLEEP 	Sets the sleep time. 0 (default) ~ 60 mins.
	INFORMATION 	Displays information on the player. Firmware version, Used memory/Total memory.

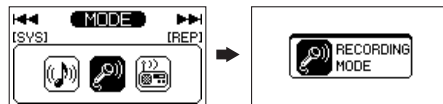
8. Recording Mode

1 Recording Voice

- ① Press and hold the stick button to enter into the menu. Press the stick button in the "MODE" screen.



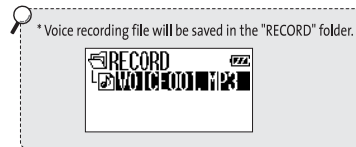
- ② Push the stick button to the ►► direction to select "RECORDING MODE". Then, press the stick button.



- ③ Press and hold the [REC] button.



- ④ Press the [REC] button again to pause recording.
To resume recording, press the [REC] button again.
⑤ Press and hold the [REC] button to stop recording.



- * Voice recording in the MP3 mode.
- ① Pause file playback if the file is being played back.
 - ② Press and hold the [REC] button to start voice recording.

2 Direct Encoding (Recording the External Source)

① Connect the headset/earphone jack to the line-in port of FG100 using the encoding cable.

② Set the external device to the pause mode.

③ Press and hold the stick button to enter into the menu in the voice recording mode.



* Optical-In
: If the digital source is transmitted through the optical cable, the optical-in function will be engaged without separate setting.

④ Select "REC OPT" and press the stick button. Then, select "LINE IN REC" and press the stick button.



⑤ Put the external device in the playback mode. ▲ Volume of the encoding file is affected by that of the external device.

⑥ Press and hold the [REC] button.

⑦ Press and hold the [REC] button to stop encoding.










Press the [REC] button again to pause encoding.
To resume encoding, press the [REC] button again

* Encode file will be saved in the "RECORD" folder.



3 Menu Configuration of Recording Mode

Menu	OLED Display	Description
MODE		Selects a mode 1. Playback, 2. Recording, 3. FM Tuner
REPEAT		Sets the playback order 1. Normal, 2. Repeat One, 3. Repeat All, 4. Random, 5. Directory Normal, 6. Directory All, 7. Directory Random
REC OPT		Selects the recording mode option. 1. Voice recording, 2. Line-in recording
VOICE REC	QUALITY 	Selects the voice recording quality. Sample rate: 32KHz, 44.1KHz Bit rate: 32KHz: 48Kbps ~ 320Kbps 44.1KHz: 48Kbps ~ 128Kbps
	RECORD GAIN 	Selects the recording sound level. 1. Low, 2. Middle, 3. High
	VOR 	VOR (Voice Operated Recording) Recording is activated only when sound is detected, which enables to prevent unnecessary recording and to save the memory. 1. Off, 2. Library, 3. Office, 4. Park ▲ VOR is available for voice recording only. When the power is off, setting will return to "Off".
	AGC 	AGC (Automatic Gain Control) Automatically controls amplification level to increase the input signal to the target level. 1. Off, 2. On ▲ AGC available for voice recording only.
LINE IN REC		Selects the sound quality of direct encoding. Sample rate: 32KHz, 44.1KHz Bit rate: 32KHz: 48Kbps ~ 320Kbps 44.1KHz: 48Kbps ~ 128Kbps

Menu	OLED Display	Description
DISPLAY	HUMAN EYE 	Automatically adjusts brightness of the OLED, depending on brightness of the surroundings 1. On, 2. Off
	TIME INFO 	Selects the playback time display method 1. No count, 2. Count
	CYCLE LED 	Selects the cycle LED setting status during playback 1. On, 2. Off
SYSTEM	SLEEP 	Sets the sleep time. 0 (default) - 60mins.
	AUTO POWER OFF 	Pause the device and set the time duration when the device power is automatically turned off. 3(Default) - 30mins.
	FADE 	Sets the fade function during playback 1. Off, 2. On
	INFORMATION 	Displays information on the player. Firmware version, Used Memory/Total memory.

9. Formatting

- ① Select the movable disc from Windows Explorer and click the right mouse button.
- ② Select the "Format" menu.
- ③ When the "Format" window appears, select "FAT" from the "File System" column.
※ FAT32 and NTFS formatting are not supported.
- ④ Press the [Start] button to precede memory formatting.
- ⑤ Press the [Done] button when formatting is completed.

⚠ If you formatted the player memory using the Windows "Format" command, you should copy the "config" file to the player manually, using the MPIO Utility. When you format the player, all data in the player will be deleted. Therefore, make sure to back up the important data before formatting.



10. MPIO UTILITY

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1 Installing MPIO Utility

- 1 Turn the PC power on and insert the Installation CD into the CD-ROM drive. Then the installation menu will be automatically displayed.

▲ If the installation CD does not start automatically, double click the [My Computer] in the desktop window. Then, select the CD-ROM drive (D: or E:, depending on your PC configuration) and double click the execution file.

- 2 Click the MPIO Utility item in the installation menu. Then the MPIO installation setup screen will appear.
- 3 Install the utility according to the instructions displayed on the screen.

2 Using MPIO Utility



1 Format & Config

Use this menu to format the player memory and copy the system files. Please be noted that all data in the player will be deleted once formatted.

- 1 Connect the player to the PC.
- 2 Run MPIO Utility.
- 3 Press the [Format & Config] button.
(※ FAT32 and NTFS formatting are not supported.)



2 Setup Config

Use this menu to save the system files in the player. If you format the player memory using the Windows "Format" command, you need to copy the "config" file to the player.

- 1 Connect the player to the PC.
- 2 Run MPIO Utility.
- 3 Press the [Setup Config] button.

3 Firmware Upgrade

- 1 Download the firmware from the MPIO web site and save it in your PC.
(www.mpio.co.kr, or www.mpio.com)
- 2 Execute the firmware file.
Then, the MPIO Utility will be automatically started.
- 3 Press the [Firmware Upgrade] button.

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11. Troubleshooting

* Check the following items first if you think the product is malfunctioning.

Q *I cannot hear any sound. Or, I hear noise.*

- A** Check the sound volume.
- A** You player may be influenced by the neighboring electrical device.
- A** If the music file is damaged, noise or sound interruption can occur.

Q *Letters on the OLED look broken.*

- A** Set the language again.

Q *I hear noise and cannot set the broadcasting channel when I try to listen to the radio.*

- A** You player may be influenced by the neighboring electrical device. Secure enough distance.
- A** The earphone plays a role of an antenna when listening to the radio. Therefore, reception sensitivity can be deteriorated if you don't use an earphone. Or, FM reception can be poor in some area.

Q *I cannot copy the file from the PC to the player.*

- A** Check USB cable connection between PC and player.
- A** Please make sure to turn on the player.

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