SONY

Linear PCM Recorder

Operating Instructions

The Help Guide (Web manual for computers and smartphones) is available on the Internet to provide detailed instructions on using and troubleshooting the linear PCM recorder.
http://rd1.sony.net/help/icd/pcmd10/h_zz/

PCM-D10

Owner's Record

The model number is located at the rear panel and the serial number is located inside the battery compartment. Record the serial number in the space provided below. Refer to these numbers whenever you call upon your Sony dealer regarding this product.

Model No.   PCM-D10
Serial No.

CAUTION

Risk of explosion if battery is replaced by an incorrect type. Dispose of used batteries according to the instructions.

⚠ WARNING

Do not expose the batteries (battery pack or batteries installed) to excessive heat such as sunshine, fire or the like for a long time.

Do not install this equipment in a confined space such as a bookshelf or similar unit.

You are cautioned that any changes or modifications not expressly approved in this manual could void your authority to operate this equipment.

This equipment has been tested and found to comply with the limits set out in the EMC regulation using a connection cable shorter than 3 meters.

For the customers in Europe

Disposal of waste batteries and electrical and electronic equipment (applicable in the European Union and other European countries with separate collection systems)

This symbol on the product, the battery or on the packaging indicates that the product and the battery 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 products and 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. 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 and the electrical and electronic equipment will be treated properly, hand over these products 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 or battery.

Caution

Battery

For the customer in Canada

This device contains licence-exempt transmitter(s)/receiver(s) that comply with Innovation, Science and Economic Development Canada's licence-exempt RSS(s). 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 the device.

The available scientific evidence does not show that any health problems are associated with using low power wireless devices. There is no proof, however, that these low power wireless devices are absolutely safe. Low power Wireless devices emit low levels of radio frequency energy (RF) in the microwave range while being used. Whereas high levels of RF can produce health effects (by heating tissue), exposure of low-level RF that does not produce heating effects causes no known adverse health effects. Many studies of low-level RF exposures have not found any biological effects. Some studies have suggested that some biological effects might occur, but such findings have not been confirmed by additional research. The model has been tested and found to comply with ISED radiation exposure limits set forth for an uncontrolled environment and meets RSS-102 of the ISED radio frequency (RF) Exposure rules.

3

Manuals

Finding information on printed manuals

Operating Instructions (this manual)
Describes basic operations of the linear PCM recorder (audio recording, audio playback, file deletion) and provides tips for better recording and playback as well as troubleshooting instructions.

SOUND FORGE Audio Studio 12 Installation Guide (supplied separately)
Describes how to install the computer application, SOUND FORGE Audio Studio 12, onto the computer as well as provides additional information.

Finding information on your computer, smartphone, or tablet

Help Guide (Web manual)
You can use your computer to find out how you can enjoy with the linear PCM recorder, detailed descriptions of its functions, and troubleshooting instructions.
When you are out of home or office, you can also use your smartphone or tablet to do the same.
There is no fee for viewing the information but the communication fee depends on the contract with your provider.

Customer support websites
For the website URLs, see "Customer support websites and Help Guide" on page 84.

Table of Contents

5

Table of Contents (continued)

Playback

Using BLUETOOTH® Function

Editing

Table of Contents (continued)

Troubleshooting

Additional Information

What you can do with the PCM-D10

For recording live performances

- The built-in microphones of the PCM-D10 allow you to record musical performances easily without complicated microphone setup.
- The smartphone app, REC Remote, installed on your smartphone allows you to remotely control the PCM-D10, such as starting or stopping recording (page 54).
- You can attach a camera tripod (commercially available) to the PCM-D10.
- The Cross-Memory REC function allows you to make a long recording by automatically switching the storage for recorded files from the built-in memory to the memory card (page 30).

9

For recording musical instrument performances with an external microphone

- You can connect an external microphone with the XLR or TRS jack(s) (commercially available) to the XLR/TRS jack(s) on the linear PCM recorder (page 39).
- You can connect a commercially-available external microphone that comes with a stereo mini-plug to the MIC IN/LINE IN jack on the linear PCM recorder (page 39).
- Long battery life with four size-AA alkaline batteries. You can record for approximately 29 hours with the external microphone connected to the MIC IN/LINE IN jack (recording mode: LPCM 44.1 kHz/16 bit); or for approximately 5 hours with the external microphone connected to the XLR/TRS jack(s) (recording mode: LPCM 44.1 kHz/16 bit with phantom power supply).
- You can monitor audio from the left and right channels independently during recording or playback (page 34, 42).

Identifying parts and controls

Front

Right side
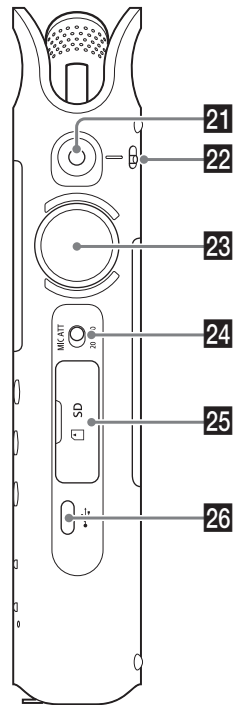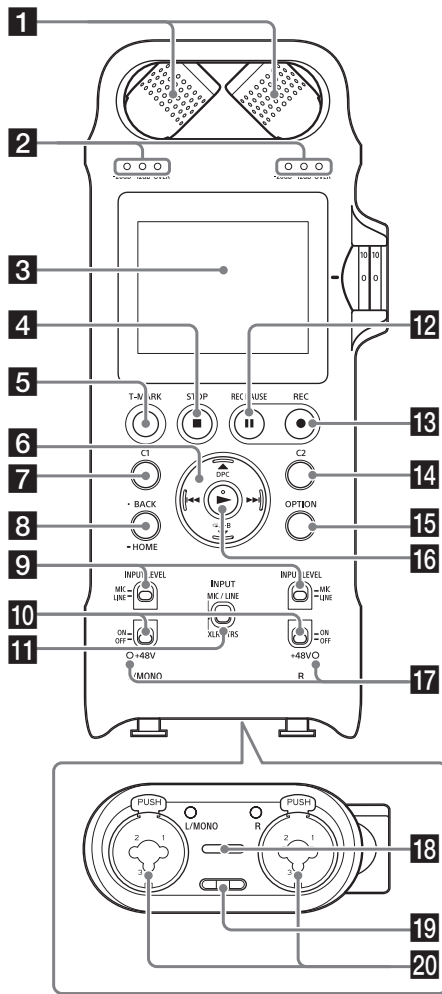
1 Built-in microphones (page 31)

2 Peak level indicators (L/R) (page 33)
Display the left and right peak levels of an audio signal input with "-20dB" (green), "-12dB" (orange), and "OVER" (red) lamps.

3 Display window (page 15)

4 ■STOP button (page 33)

5 T-MARK (track mark) button (page 59)

6 Control button ((▲DPC (Speed Control), ▼ ↻ (repeat) A-B/I◄◄ (fast reverse), ►►I (fast forward))

7 C1 (Custom 1) button (page 63)
You can register frequently-used functions to this button.

8 BACK/⬤ HOME button (page 22)
Press briefly to display the previous screen. Press and hold for 1 second or more to display the HOME menu.

9 XLR/TRS INPUT LEVEL (XLR/TRS input type selection) switch (L/R)
Select "MIC" or "LINE" in accordance with the device connected to the XLR/TRS jack(s).

10 Phantom power switch (L/R)
When connecting an external microphone with phantom power support to the XLR/TRS jack(s), slide the switch to "ON" to supply power.

11 INPUT (input selection) switch
Slide the switch to "MIC/LINE" to record audio signals from the external microphone connected to the MIC IN/LINE IN jack. When no external microphone is connected to the MIC IN/LINE IN jack, audio signals from the built-in microphones are recorded.
Slide the switch to "XLR/TRS" to record audio signals from the external device connected to the XLR/TRS jack(s).

12 ❙❙REC PAUSE (pause recording) button/indicator (page 33)

13 ●REC (recording) button/indicator (page 32)

14 C2 (Custom 2) button (page 63)
You can register frequently-used functions to this button.

15 OPTION button (page 22)

16 ► (play/enter) button
There is a tactile dot. Use this dot as a reference point for operating or identifying the button.

17 Phantom power indicator (L/R)

18 Built-in speaker (page 42)

19 Strap hole
No strap is supplied with your linear PCM recorder.

20 XLR/TRS jack (L/R)

21 MIC IN/LINE IN jack (stereo jack with the diameter of 3.5 mm)
Connect an external microphone or an audio device for audio recording.

22 MIC/LINE INPUT LEVEL (MIC/LINE input type selection) switch
Select "MIC" or "LINE" in accordance with the output level of the device connected to the MIC IN/LINE IN jack.

23 REC LEVEL (recording level) dial
Adjust the recording volume by turning the REC LEVEL dial to display the desired level (0 to 10) in the "—" position next to the display window.
You can adjust the volume for both of the right and left channels simultaneously by turning the dial. To change the balance of recording volume for the right and left channels, pull out the outer dial to separate it from the inner dial. Then, turn the outer dial to adjust the volume for the right channel. To adjust the volume for the left channel, turn the inner dial.

24 MIC ATT (microphone attenuator) switch (page 40)

25 SD card slot (page 36)
Located behind the slot cover.

26 USB Type-C™ connector

12

PCM-D10   4-744-528-11(1)

Note

- Before connecting/disconnecting an external microphone or device to/from the XLR/TRS jack(s), make sure that the phantom power switch is placed in the "OFF" position. If you plug or unplug the cable of the connected device while the switch is placed in the "ON" position, it may produce a loud noise or cause the device to malfunction.
- While the phantom power switch is placed in the "ON" position, the linear PCM recorder consumes more power. When you do not intend to use an external microphone with phantom power support, slide the switch to "OFF."

Getting Started

13

Identifying parts and controls (continued)

Back/Left side
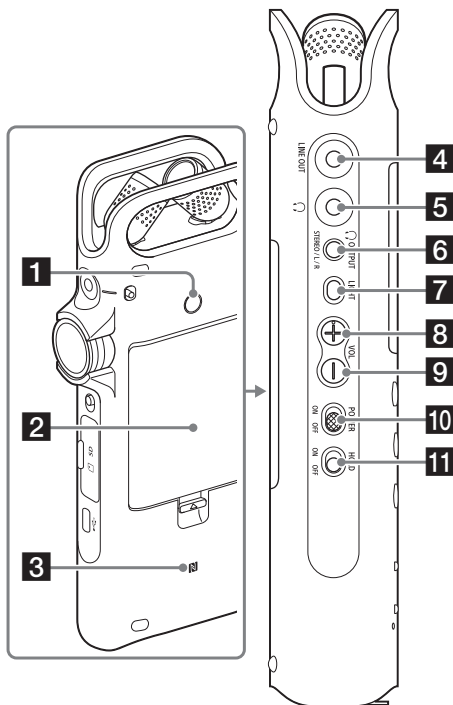
1 **Hole for attaching the tripod**
No tripod is supplied with your linear PCM recorder.

2 **Battery compartment cover (page 19)**

3 **⃟(N mark) (page 52)**
Put an NFC-compatible smartphone or Bluetooth audio device onto this mark to establish a Bluetooth connection.

4 **LINE OUT (line output) jack (page 50)**

5 **⌂ (headphones) jack (page 34, 42)**

6 **⌂ OUTPUT (headphone output selection) button (page 34)**
Select the left ("L"), right ("R"), or "STEREO" channel for the headphone output.

7 **LIGHT button**
Turns the backlight of the display window on or off.

8 **VOL (volume +) button***

9 **VOL (volume -) button**

10 **POWER switch (page 20)**
Turns the power "ON" or "OFF."

11 **HOLD switch (page 26)**
When the switch is placed in the "ON" position, the buttons on the linear PCM recorder are disabled to prevent unintentional operations. We recommended that you keep this switch placed in the "ON" position during recording and playback. To enable the button operations, slide the switch to "OFF."

* There is a tactile dot. Use this dot as a reference point for operating or identifying the button.

Display window

■ Display window while stereo recording is in progress
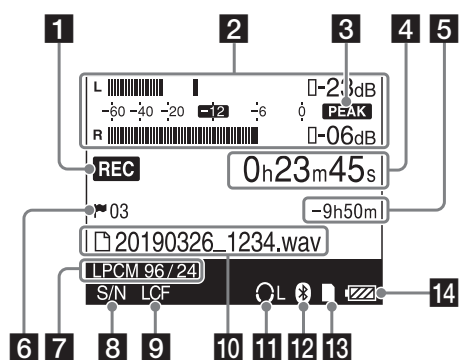
■ Display window while monaural recording is in progress
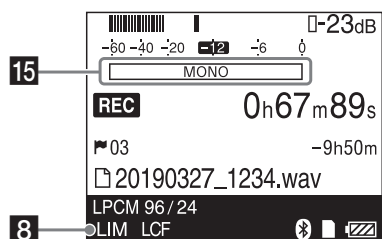
1 Recording status

Indicates the following according to the current operation:

REC	While recording is in progress
● II (Flashing)	While recording is on standby or the linear PCM recorder is paused for recording

2 Level meters/peak values (page 32)

The level meters and the maximum value of the peak level are displayed. When the level exceeds the set value, **OVER** appears. When "Stereo/Monaural" is set to "Monaural (L)" on the menu, the heading "L" to the left of the top level meter and the bottom level meter with the "R" heading are not displayed.

3 PEAK icon

Appears when "Peak Hold" is set to "Manual" on the menu.

4 Elapsed recording time

5 Remaining recordable time

Indicates the remaining recordable time in hours, minutes, and seconds.
10 hours or more: in hours
Between 10 minutes and 10 hours: in hours and minutes
Less than 10 minutes: in minutes and seconds

6 Track mark (page 59)

Indicates the track mark number at the current position. Displayed only when a track mark is set.

7 Recording mode (page 64)

Indicates the recording mode specified on the menu.

15

Identifying parts and controls (continued)

8 LIMITER/High S/N Mode (page 65, 66)
Appears when "LIMITER" or "High S/N Mode" is enabled.

9 LCF setting (page 65)
Appears when "LCF(Low Cut)" is enabled.

10 File name/folder name
While recording is on standby or the linear PCM recorder is paused for recording, the folder name (for example, FOLDER01) appears.

11 Output channel indicator (page 34)
Appears when the left (L) or right (R) channel audio is specified for output to the headphones. When stereo audio is output to headphones, nothing appears.

12 Bluetooth mark
Appears when the Bluetooth function is enabled.

13 Memory card indicator
Appears when "SD Card" is selected for "Memory Selection" under "Recording Folder."

14 Remaining battery power (page 20)

15 Monaural icon
Appears when "Stereo/Monaural" is set to "Monaural (L)" on the menu.

■ **Display window while playback is in progress**
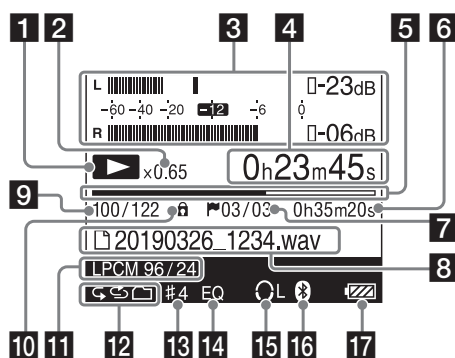
1 Playback status

▶	Playback
■	Stop
◀◀ / ▶▶	Fast reverse/forward

2 DPC(Speed Control) information (page 49)
Indicates the playback speed selected in "DPC(Speed Control)."

3 Level meters/peak values (Displayed only for the recorded file) (page 32)
The level meters and the maximum value of the peak level are displayed.

4 Elapsed playing time
Indicates the elapsed playing time for 1 file.

5 Progress bar
Indicates the progress of the playback.

6 File Length
Indicates the file length.

7 Track mark (page 59)
Indicates the track mark number at the current position. Displayed only when a track mark is set.

8 File name

9 File location information
The number of the selected file appears as the numerator and the total number of files available to play appears as the denominator. When the total number of files reaches a 4-digit number, the number of files is only displayed.

10 Protection indicator (page 57)
Appears when a file is protected.

11 Recording mode (page 64)
Indicates the recording mode of the file that is playing.

12 Play mode indicator (page 68)
Indicates the Play Mode setting (for example, repeat playback or shuffle playback).

13 Playback tone indicator (page 48)
Appears when the playback tone is modified.

14 Equalizer indicator (page 48)
Appears when "Equalizer" is enabled on the menu.

15 Output channel indicator (page 34)
Appears when the left (L) or right (R) channel audio is specified for output to the headphones. When stereo audio is output to headphones, nothing appears.

16 Bluetooth mark
Appears when the Bluetooth function is enabled.

17 Remaining battery power (page 20)

Getting Started

Checking the supplied items

- Linear PCM recorder (1)
- USB Type-C™ cable (A-C) (1)
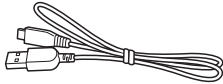
- Carrying pouch (1)
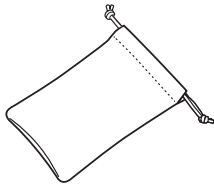
- Wind screen (1)

  Put the wind screen over the built-in microphones.
  For details, see page 29.

- Sony LR6 (size AA) alkaline batteries (4)

- Operating Instructions (this manual)
- SOUND FORGE Audio Studio 12 Installation Guide (1)
  The "SOUND FORGE Audio Studio 12" software allows you to edit data, create a CD, and perform other operations on your computer. For an overview of the software and details on installation procedures, refer to the supplied manual "SOUND FORGE Audio Studio 12 Installation Guide."

Note

You are cautioned that any changes or modifications not described in this manual could void your authority to operate the linear PCM recorder.

Preparing a power source

Inserting batteries

1 **Pull the tab (①) of the battery compartment cover on the back of the linear PCM recorder in the direction of the arrow and raise it to open the cover.**
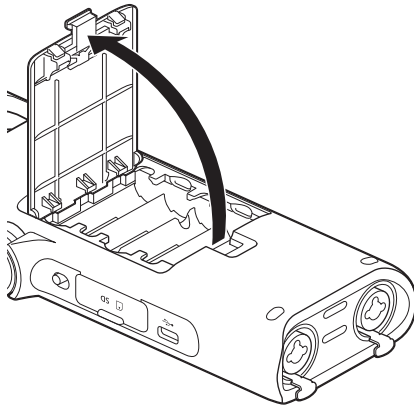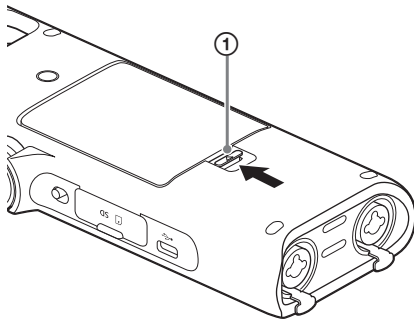
2 **Insert the four supplied size-AA batteries.**
Be sure to insert the batteries with the ⊕ and ⊖ ends in the right position.

3 **Close the battery compartment cover.**

Turning the power on
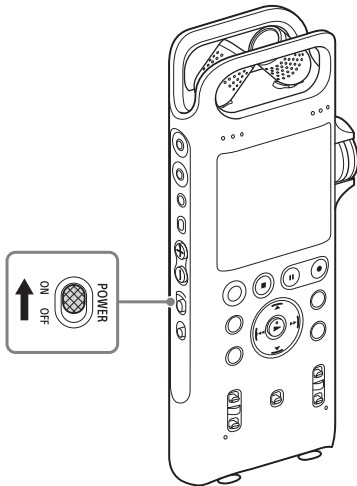
Slide the POWER switch to "ON."
When the POWER switch is placed in the "ON" position, "Power On" and then "Please Wait" appear on the display window. Information required for operation is read from the linear PCM recorder's built-in memory.

When you turn on the recorder for the first time after purchasing

"Configure Initial Settings" appears on the display window. Press the ► button and configure the "Language," "Date&Time," and "Beep" settings (page 21).

Note
You may not be able to select the language, depending on the country or region you purchased your linear PCM recorder.

Turning the power off

Slide the POWER switch to "OFF." "Power off" appears on the display window, and the power is turned off.

When to replace the batteries

When using batteries, the remaining battery power is indicated on the display window.

There is sufficient battery power.

Replace all four batteries.
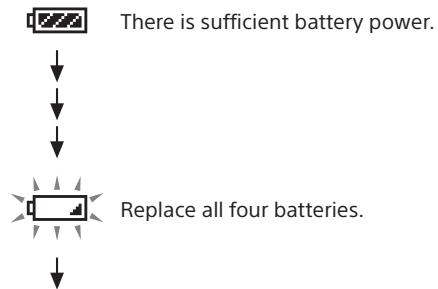
"Low Battery" appears on the display window when there is no power left.
The linear PCM recorder will not operate.

Note
• When the remaining battery power reaches the lowest level, the following operations are not available.
  – Supplying phantom power to the connected external microphone
  – Dividing the file at the track mark positions
  – Moving files
  – Copying files
  – Deleting folders
  – Deleting all files in a folder/list
  – Formatting the memory storage
• You can use rechargeable batteries with the linear PCM recorder. However, you cannot charge the batteries while they are in the linear PCM recorder. Use the rechargeable batteries that are already charged.
• To use rechargeable batteries, select " Settings" → "Common Settings" → "Battery Setting," and then select "NiMH Battery" from the HOME menu.

Hint
• If you leave the linear PCM recorder unused while it is running on battery power, the display window will turn off and the linear PCM recorder enters the sleep mode. You can change the time length before the recorder enters sleep mode by changing the Auto Standby setting (page 69).
• When you turn the power on again within 4 hours of the last time the power was turned off, the power will come on quickly.

Making the initial settings

When you turn on the linear PCM recorder for the first time after purchasing, "Configure Initial Settings" appears on the display window.

1 Press the ► button.

The Language screen appears.
If the Language screen is not displayed, proceed to step 3.

2 Press the ▲ or ▼ button to select the display language, and then press the ► button.

You can select English, Simplified Chinese, or Traditional Chinese. The language you can select differs depending on the country or region you purchased the linear PCM recorder.
The Date&Time screen is displayed.

3 Press the ▲ or ▼ button to set an item, and then press the ► button to confirm the value.

```
Date&Time

    YEAR    MONTH    DAY
             ▲
    2019  /    1   /   1

         00 : 00
```

You can move the cursor to the year, month, day, hour and minute by pressing the ◄◄ or ►►I button.
The default date display format differs depending on the country or region you purchased the linear PCM recorder.
The time is displayed either in "12-Hour" with "AM" or "PM," or in "24-Hour," depending on the "Time Display" setting on the menu. The default setting differs depending on the country or region you purchased the linear PCM recorder.

4 Repeat step 3 to set all items, and then press the ► button.

5 Select "Next" and press the ► button.

The Beep screen is displayed.

6 Select "ON" or "OFF" and press the ► button.

When the initial settings are complete, the HOME menu is displayed.

Hint

- If you remove the batteries and insert them back in place after an interval of 2 minutes or more, or if you replace the batteries with new ones, the Date&Time screen is displayed. This screen shows the date and time that you had last used the linear PCM recorder before you removed the batteries. Change the date and time to the current ones.
- To display the previous item, press the BACK/HOME button.
- You can also change the "Language," "Date&Time," and "Beep" settings later on by selecting "🧰 Settings" → "Common Settings" from the HOME menu (page 22).

Using the HOME and OPTION menus

Selecting the desired function from the HOME menu

On the linear PCM recorder, the HOME menu is the starting point for the functions of the recorder. From the HOME menu, you can select the desired function, locate recorded files, or change settings.

1 Press and hold the BACK/HOME button for 1 second or more.

The HOME menu is displayed.

```
            HOME
     🎤  Record
     📄  Recorded Files
     🎵  Music
     🅱  Bluetooth
     🧰  Settings
```
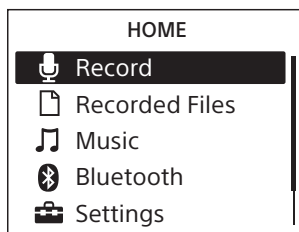
2 Press the ▲ or ▼ button to select the desired function, and then press the ► button.

You can select the following functions:

🎤 Record	Displays the screen for recording. You can start recording by pressing the buttons on the linear PCM recorder.
📄 Recorded Files	Allows you to select and play the desired recorded file.
🎵 Music	Allows you to select and play the desired file from those transferred from your computer.
🅱 Bluetooth	Displays the menu screen for items that use the Bluetooth function, such as REC Remote, NFC, and Bluetooth audio devices.
🧰 Settings	Allows you to configure various settings of the linear PCM recorder in the settings screen.

↩ Back to XX*	Displays the screen you displayed before entering the HOME menu.

* The function you are currently using is displayed in "XX."

3 Follow the on-screen instructions to proceed.

Hint
To display the screen you displayed before entering the HOME menu, press the ■STOP button during operations on the HOME menu.

Making settings from the OPTION menu

By pressing the OPTION button, you can display the OPTION menu, which allows you to change the settings for each function you are using. The OPTION menu items vary depending on the function you are using or the state of operation (page 23).

1 Press the OPTION button after you have selected a function with the HOME menu.

The OPTION menu for the current function is displayed.

```
   REC Information
   Recording Folder
   Create Folder
   REC Mode
   Stereo/Monaural
   Peak Hold
   LCF(Low Cut)
```
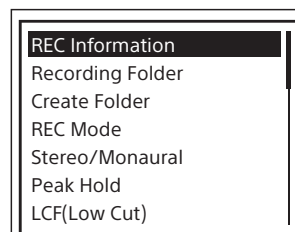
2 Press the ▲ or ▼ button to select the desired item, and then press the ► button.

3 Press the ▲ or ▼ button to select the desired setting item, and then press the ► button.

Hint
To return to the previous screen, press the BACK/HOME button during operations.

22

Settings menu items

Settings menu	Item	See page:
Recording Settings	Recording Folder	64
	Create Folder	64
	REC Mode	64
	Stereo/Monaural	64
	Peak Hold	29
	LCF(Low Cut)	65
	LIMITER	65
	High S/N Mode	66
	PRE REC	35
	Plug In Power	66
	Cross-Memory REC	30
	Auto Track Marks	30
Playback Settings	Equalizer	48
	Key Change	48
	Easy Search	47
	Play Mode	68
	Playback Range	68
Common Settings	LED	68
	Backlight	68
	Beep	68
	Language	69
	Date&Time	69
	Auto Standby	69
	Battery Setting	69
	Custom Key Settings	63
	Reset/Format	70
	Available Rec. Time	71
	System Information	71

OPTION menu items

Record

You can display the OPTION menu while recording is in progress or on standby. Some items may not be displayed depending on the conditions.

OPTION menu item	See page:
REC Information	-
Recording Folder	64
Create Folder	64
REC Mode	64
Stereo/Monaural	64
Peak Hold	29
Reset Peak Data	29
LCF(Low Cut)	65
LIMITER	65
High S/N Mode	66
PRE REC	35
Cross-Memory REC	30
Delete a File	56

Getting Started

☐ Recorded Files

You can display the OPTION menu while a list of the recorded files is displayed or while playback is in progress or on standby.
Some items may not be displayed depending on the conditions.

OPTION menu item	See page:
Go to REC	-
Equalizer	48
Key Change	48
Easy Search	47
Play Mode	68
Playback Range	68
Delete a File	56
Delete All in List	56
Delete All Files	56
Protect	57
Do Not Protect	57
Track Mark List	45
Delete Track Marks	59
Divide	60
Move File	62
File Copy	62
Change File Name	58
File Information	46
Create Folder	64
Delete Folder	56
Change Folder Name	58

♫ Music

You can display the OPTION menu while playback of a music file transferred from a computer is in progress or on standby.
Some items may not be displayed depending on the conditions.

OPTION menu item	See page:
Equalizer	48
Key Change	48
Easy Search	47
Play Mode	68
Playback Range	68
Delete a File	56
Delete All in List	56
Delete All Files	56
Protect	57
Do Not Protect	57
Track Mark List	45
Delete Track Marks	59
File Information	46
Delete Folder	56

24

Selecting a file

Selecting a file by specifying a file search category

You can select a desired file for playback or editing from the HOME menu.

1 **Press and hold the BACK/HOME button for 1 second or more.**
The HOME menu is displayed.

```
              HOME
  🎤  Record
  📄  Recorded Files
  🎵  Music
  ⓑ  Bluetooth
  🧰  Settings
```
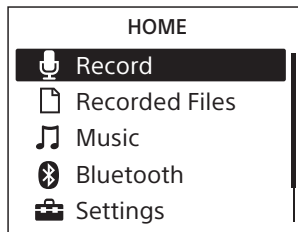
2 **Press the ▲ or ▼ button to select "📄 Recorded Files" or "🎵 Music," and then press the ► button.**

3 **Select a file search category.**
Press the ▲ or ▼ button to select one of the following file search categories, and then press the ► button.
📄 Recorded Files: "Latest Recording," "Search by REC Date," and "Folders"
🎵 Music: "All Songs," "Albums," "Artists," and "Folders"

```
  Recorded Files
  Latest Recording
  Search by REC Date
  Folders
```
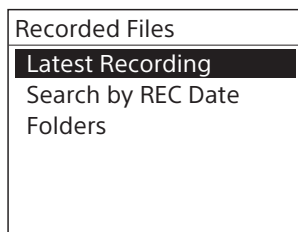
Selecting "Folders" as the file search category displays the Memory Selection screen. Select either "Built-In Memory" or "SD Card" as the memory storage.
If you insert the SD card that has previously been used in another Sony IC recorder or linear PCM recorder, "SD Card(Other Models)" appears in addition to "SD Card."

4 **Select a list or folder from the search results, and then select a file.**
Press the ▲ or ▼ button to select a list or folder, and then select the file.

Hint
- While the playback standby screen is displayed, you can select a file by pressing the ⏮ or ⏭ button.
- At the time of purchase, there is a folder, FOLDER01, in "📄 Recorded Files."

Preventing unintentional operations (HOLD)

You can disable all the buttons (HOLD) in order to prevent unintentional operations when you carry the linear PCM recorder, etc.

To disable the button operations
Slide the HOLD switch to "ON" to disable the buttons while the power is on.
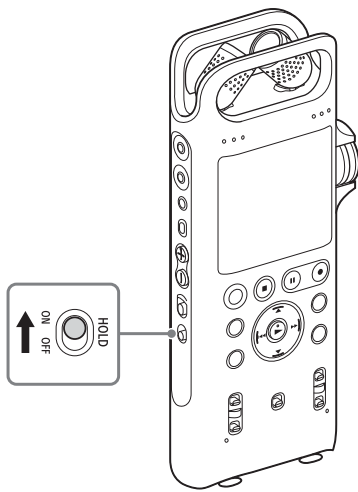
If you operate a button while the power is on, "HOLD" and the current time appear for approximately 3 seconds.
You can still operate the following controls while the HOLD function is active:

- REC LEVEL dial
- POWER switch
- INPUT switch
- MIC/LINE INPUT LEVEL switch
- Phantom power switches
- XLR/TRS INPUT LEVEL switches
- MIC ATT switch

HOLD

10:23

To release the HOLD function
If you operate buttons on the linear PCM recorder when the HOLD function is set, "HOLD... Slide HOLD Switch to Activate." appears on the display window.
To release the HOLD function, slide the HOLD switch to "OFF."

Hint
The default time display format depends on the country or region of your purchase.

26

Preparation before recording

When you position the linear PCM recorder, place it so that the microphones point to the sound source. For accurate recording of left and right sources, place the linear PCM recorder with its front side facing upward. The placement of the linear PCM recorder and the direction of the microphone depend on the sound source, the microphone, the settings of the linear PCM recorder, etc. It is recommended that you try recording with the linear PCM recorder in various positions and settings after referring to the illustration below and the characteristics of the microphone.

Placement example when recording a musical performance using the built-in microphones

For best results, place the linear PCM recorder about 2 m to 3 m (7 ft to 10 ft) from the sound source. Referring to the characteristics of the built-in microphones, adjust direction of the linear PCM recorder and the angle of the microphones.

About the directivity of the built-in microphones

The built-in microphones are unidirectional. You can change the directions of the microphones according to your recording scene.

When rotating both capsules of the microphones to face inside (X-Y position)

The microphone on the right picks up sound from the left; the microphone on the left picks up sound from the right.
You can obtain natural and profound stereo sound recording. This position is recommended for recording close-by sound sources such as a solo performance or a session of two or three people.
However, if you place the microphones too close to the sound source, please note that the microphones may catch the sounds reversely.
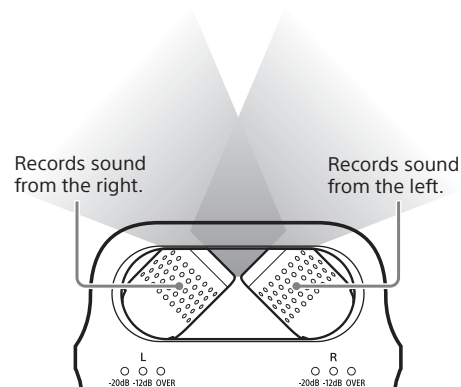
Records sound from the right.

Records sound from the left.

When rotating both capsules of the microphones to face outside (Wide stereo position)

The microphone on the right records sound from the right; the microphone on the left records sound from the left.

You can obtain dynamic stereo sound recording. This position is recommended for recording a remote sound source such as a chorus, an orchestra, or other performance of a large number of people.

Records sound from the left.   Records sound from the right.
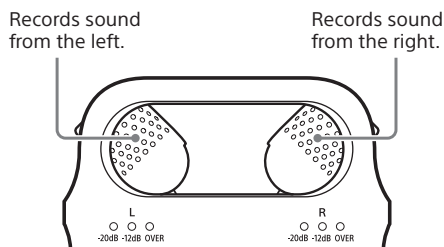
To switch the microphone input sensitivity

Use the MIC ATT switch.
Usually slide it to "0." When recording loud sounds, slide it to "20" (page 40).

We recommend a trial recording
The recording environment, including the size of the room and the speaker's voice level, is different for each recording. The desired sound quality also differs depending on the subject of the recording. A trial recording is very effective to prevent failure of an important recording and create an optimum recording environment for your recording purposes.

To reduce noise in the recording

Sounds that may be recorded as noise
The linear PCM recorder may record various sounds in addition to the target sound. Noises that may be recorded include:

- A rustling noise that may be caused when you touch the linear PCM recorder
- Breath that hits the microphones of the linear PCM recorder
- Sound that may be caused when you touch a table
- Buzzing or humming noises from air-conditioners, projectors, or computers

To reduce noise, do not touch the linear PCM recorder during recording. Also, do not make the kinds of sounds mentioned above that may be recorded as noise.

Using REC Remote
The smartphone app, REC Remote, installed on your smartphone allows you to remotely control the PCM-D10, such as starting or stopping recording.
For details on the directions for use, see page 54.

Positioning the linear PCM recorder using a camera tripod (commercially available)
By attaching a camera tripod (commercially available) to the hole on the back of the linear PCM recorder, you can adjust the angles of the linear PCM recorder and the microphones more precisely. This also prevents noise caused when holding the linear PCM recorder in your hand.

Using the supplied wind screen

By fitting the wind screen to the built-in microphones, you can reduce noise caused by wind or breath that hits the microphones directly.

Be sure to fit the wind screen so that the peak level indicators are covered.

If the wind screen is not properly fit, it will produce no effect.
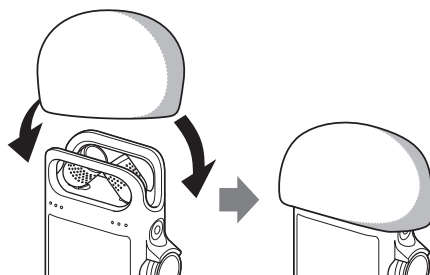
Setting the LCF(Low Cut) function

To reduce noise such as projector noise caused by air from the projector air vents, enable "LCF(Low Cut)" (low cut filter) on the menu.

Select " Settings" → "Recording Settings" → "LCF(Low Cut)" from the HOME menu and then press the ► button.

Note
If a device is connected to the XLR/TRS jack(s), and if the left, right, or both the left and right XLR/TRS INPUT LEVEL switch(es) are set to the "LINE" position, the LCF(Low Cut) function does not work.

Setting the LIMITER function

To reduce distortion that may be caused by a sudden input of loud sound, enable "LIMITER" on the menu.

Select " Settings" → "Recording Settings" → "LIMITER" from the HOME menu and then press the ► button.

Note
If a device is connected to the XLR/TRS jack(s), and if the left, right, or both the left and right XLR/TRS INPUT LEVEL switch(es) are set to the "LINE" position, the LIMITER function does not work.

Setting the High S/N Mode function

By using a high S/N ratio, you can reduce noise in recording even when the recording level is low.

To use this function, enable "High S/N Mode" on the menu.

Select " Settings" → "Recording Settings" → "High S/N Mode" from the HOME menu and then press the ► button.

Note
While the LIMITER function is active, the High S/N Mode function is disabled.

Setting the Peak Hold function

Select whether the maximum value of the input signals (peak value) is maintained.

Select " Settings" → "Recording Settings" → "Peak Hold" from the HOME menu and then press the ► button.

If you select "Manual," PEAK will appear under the peak value and the peak value will be maintained until it is reset.

To reset the peak value and maintain a new peak value, select "Reset Peak Data" on the OPTION menu while recording is in progress or on standby.

If you select "Auto," the peak value will be reset periodically.

Recording

To record across memory media (Cross-Memory REC)

When the built-in memory or the SD card currently being used becomes full during recording, the linear PCM recorder automatically switches its destination to the other memory media and continues recording.

1 While no linear PCM recorder operations are in progress, press and hold the BACK/HOME button for 1 second or more, select "⏻ Settings" → "Recording Settings" → "Cross-Memory REC," and then press the ► button.
The Cross-Memory REC screen is displayed.

2 Press the ▲ or ▼ button to select "ON," and then press the ► button.

3 Start recording.
When the current memory media becomes full during recording, "Continue REC in Other Memory" appears on the display window. Recording continues and "CROSS_MEM" is created on the alternate memory storage as the folder used for the Cross-Memory REC function, and then the rest of the current recording is saved in a new file with a new file name.

Note
- If the other memory media is also full, a message is displayed and the linear PCM recorder stops recording.
- The Cross-Memory REC function will not work if you insert an SD card into the linear PCM recorder during recording.
- When you record a file by using the Cross-Memory REC function, part of recorded sound may be interrupted after the memory is switched.

Hint
To continuously play the divided files recorded with the Cross-Memory REC function, select "Search by REC Date" when you select a file search category. The divided files will be displayed next to each other.

To add track marks automatically

You can add track marks (page 59) automatically at your desired intervals during recording.

1 Press and hold the BACK/HOME button for 1 second or more, select "⏻ Settings" → "Recording Settings" → "Auto Track Marks," and then press the ► button.

2 Select "Interval" and set the interval (5min, 10min, 15min, or 30min) for adding track marks.

3 Select "Time Stamps" and enable "Time Stamps On."
The time stamp will be added to the track marks when they are automatically added.
This helps you locate your desired track mark in a long recording, because you can use the time stamps as references.

Hint
You can check the track marks in the "Track Mark List" on the OPTION menu.

Recording

This section explains how to record analog sound signals from the line output of an external device or by using the built-in or external microphones.

MIC/LINE INPUT LEVEL switch

REC LEVEL dial

■STOP button
IIREC PAUSE button/indicator
●REC button/indicator
BACK/HOME button
OPTION button
► button
▲, ▼, I◄◄ , ►►I button

INPUT switch
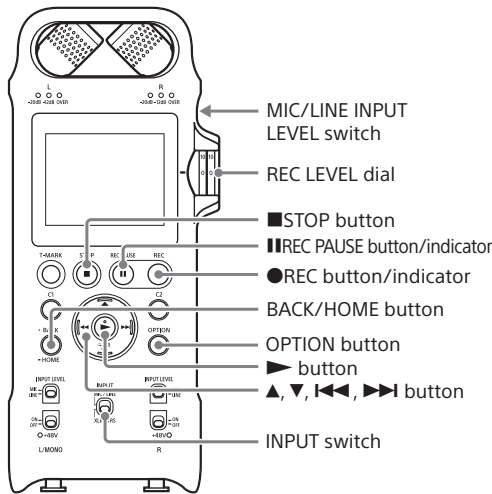
Recording using the built-in microphones

This sub-section explains how to record sound sources in the built-in memory with the built-in microphones.

1 **Position the linear PCM recorder and the built-in microphones, referring to "Preparation before recording" (page 27).**

2 **Slide the INPUT switch to "MIC/LINE."**

3 **Select "🎤 Record" from the HOME menu (page 22) and then press the ► button.**

The recording standby screen is displayed.

4 **Select the memory storage (the built-in memory or the SD card) and the storage folder where you want to store recorded files.**

To store recorded files on the SD card, you need to change the memory storage. While recording is on standby, select "Recording Folder" on the OPTION menu and then select "SD Card" on the Memory Selection screen before you start recording.

Currently selected memory storage
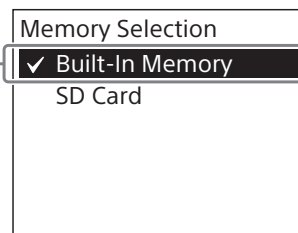
Memory Selection
✓ Built-In Memory
SD Card

5 **Press the ●REC button.**

The linear PCM recorder pauses for recording, and ⏸ and the elapsed time appear on the display window.
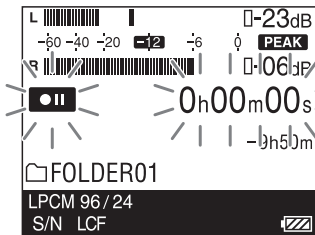
6 **Turn the REC LEVEL dial to adjust the recording level while referring to the display window.**

When you turn the REC LEVEL dial, the volume for both of the right and left channels is adjusted in synchronization.
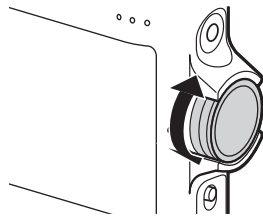
To change the balance of recording volume for the right and left channels, pull out the outer dial to separate it from the inner dial. Then, turn the outer dial to adjust the volume for the right channel. To adjust the volume for the left channel, turn the inner dial.
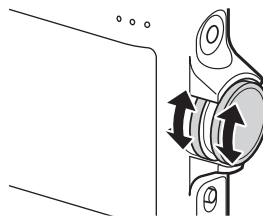
You can check the recording level on both the peak meter of the display window and the peak level indicators. Adjust the level closer to –12 dB for an appropriate range that is suitable for your sound source.

Hint
You can also use the OPTION menu to change the recording mode. While recording is on standby, select "REC Mode" on the OPTION menu and then select your desired recording mode (page 64). By default, LPCM 44.1 kHz/16 bit is selected.

When checking the level on the peak meter of the display window

When recording sound that has "sharp attack" parts such as percussive sound, use the peak meter to check the level.
The maximum peak value is displayed.
If **OVER** appears when the maximum peak value is output, distortion may occur.

Peak indicator (crest value of input signal)

Maximum peak value

When checking the level on the peak level indicators

The peak level indicators for the left and right channels light according to the input signal levels.

If the "OVER" lamp lights up in red (when the recording level exceeds –1 dB), distortion may occur.
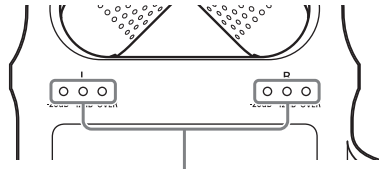
Peak level indicators
-20 dB (green): Distortion will not occur. (The recording level is –20 dB to –13 dB.)
-12 dB (orange): Distortion will not occur. (The recording level is –12 dB to –1 dB.)
OVER (red): The recording level is more than –1 dB. Lower the level.

7 **To start recording, press the ❚❚REC PAUSE (or ▶) button.**
The standby for recording is released, and recording starts. While recording is in progress, **REC** appears on the display window.

To pause recording
Press the ❚❚REC PAUSE button during recording. ⏺❚❚ and the elapsed recording time flash on the display window. Press the button again to restart recording.
Be sure to press the ❚❚REC PAUSE button again to restart recording.

To stop recording
Press the ◼STOP button.

Remaining recordable time display
When the remaining recordable time is less than 10 minutes during recording, the remaining recordable time flashes on the display window.
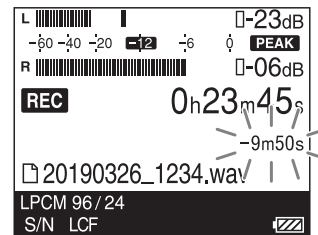
When the remaining time runs out, "Memory Full" appears and recording stops.

Note
- While recording is in progress or paused, do not remove the batteries or the SD card. Doing so may damage the data.
- If you leave the linear PCM recorder unused for a while, the linear PCM recorder will enter the sleep mode automatically. However, the recorder consumes power while it is in low-power consumption mode. When you are not going to use the linear PCM recorder, please turn off the power. The recorder does not enter the low power-consumption mode while the recording is paused.
- Do not connect the USB cable to the linear PCM recorder during recording. Doing so stops recording automatically (because connection with a computer has priority).
- If the file size reaches the maximum limit (4 GB for an LPCM file, and 1 GB for an MP3 file) during recording, the file will be divided.
- Some of the recording may be lost around the divided point.
For the maximum recordable time for a single file, see page 89.

33

Monitoring the recording audio

Connect headphones or earphones (not supplied) to the ⌒ (headphone) jack of the linear PCM recorder to monitor the recording audio. The volume of monitored sound can be adjusted by pressing either of the VOL (volume) buttons.

To change the channel setting for audio output, press the ⌒ OUTPUT button. Every time you press the button, the channel setting is switched as follows:

STEREO: Audio is output in stereo.

L: The left-channel audio is only output. You can monitor the left-channel audio from both of the left and right headphone pieces.

R: The right-channel audio is only output. You can monitor the right-channel audio from both of the left and right headphone pieces.

Headphones (not supplied)

To the ⌒ (headphone) jack

Stereo mini-plug

⌒ OUTPUT (headphone output selection) button

VOL (volume) buttons
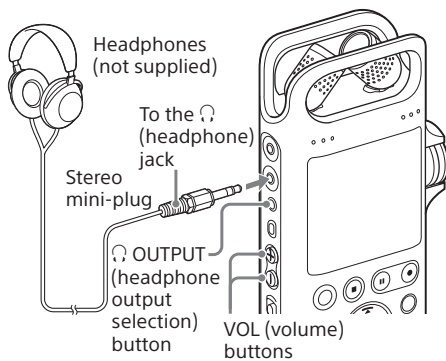
Note

- If you turn up the volume excessively or place the headphones extremely close to the linear PCM recorder while monitoring the ongoing recording, the built-in microphones may pick up the sound from the headphones, causing acoustic feedback (howling noises).
- For best results, use closed headphones, which have less sound leakage.
- You cannot monitor the ongoing recording with the headphones connected via a Bluetooth connection.

34

Starting recording slightly in advance (PRE REC)

The PRE REC (pre-recording) function starts recording up to 5 seconds before the operation to start recording. This function comes in handy when you do not want to miss the beginning of a sudden recording event, such as an interview or an outdoor recording.

5 seconds of sound is buffered in the memory.

Press the ●REC button to enter the standby for recording mode.

Press ❚❚REC PAUSE (or ▶) button.
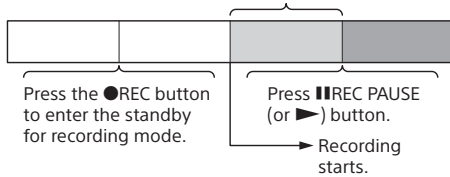
→ Recording starts.

1 Press and hold the BACK/HOME button for 1 second or more, select "🎤 Record", and then press the ▶ button.

The recording standby screen is displayed.

2 Press the OPTION button to display the OPTION menu, select "PRE REC," and then press the ▶ button.

3 Press the ▲ or ▼ button to select "ON," and press the ▶ button.

4 Press the ●REC button.

The linear PCM recorder pauses for recording, and ●❚❚ flashes on the display window. The last 5 seconds of sound is buffered in the memory.

```
L ▌▌▌▌▌▌▌▌▌    ▌          🔒-23dB
  -60 -40 -20 ▬12 -6  ◊  PEAK
R ▌▌▌▌▌▌▌▌▌▌▌▌▌▌▌         🔒-06dB
●❚❚     ▮▮▮▮□□  3s
                  -9h50m
📁FOLDER01
LPCM 96 / 24
S/N  LCF                 🔋
```
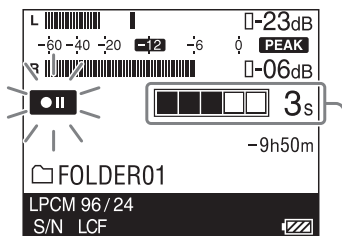
Number of seconds to be buffered in the memory

5 Press the ❚❚REC PAUSE (or ▶) button.

The standby for recording mode is released, and recording starts. Sound is saved from a maximum of 5 seconds prior to the point when the button is pressed.

Note

• If you use the built-in microphones for recording with the PRE REC function, noises may be recorded when you press the ❚❚REC PAUSE button. We recommend that you use an external microphone or REC Remote for recording with the PRE REC function.

• If you stop pre-recording before step 5, the buffered in the linear PCM recorder's memory during the pre-recording period will be cleared.

Hint

To cancel the PRE REC function, select "OFF" in step 3.

Using the SD card as a storage for recorded files

You can record sounds on an SD card (not supplied) in addition to the built-in memory.

► button

▲, ▼, I◄◄, ►►I button

BACK/HOME button

SD card slot

SD card

SD card slot cover
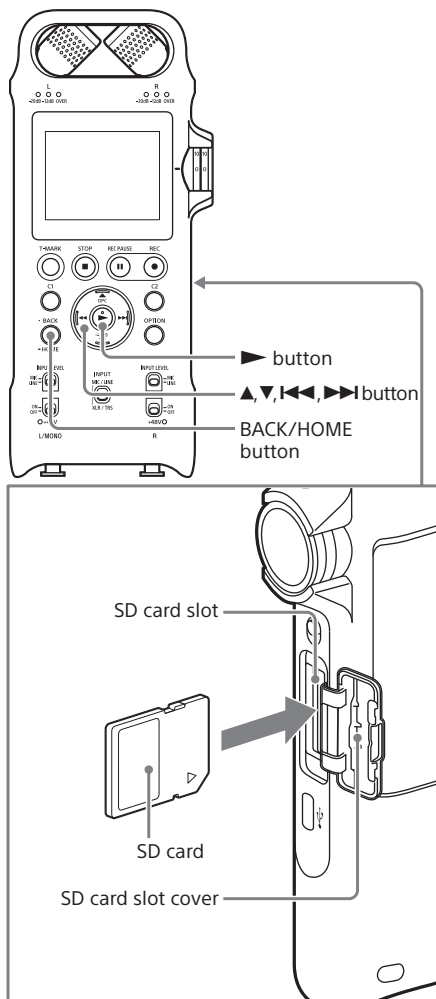
Inserting an SD card

Before you start recording, copy the data stored on the SD card to a computer and format the SD card on the linear PCM recorder (page 70) to erase all the stored data.

1 **While no linear PCM recorder operations are in progress, insert an SD card into the SD card slot until it clicks into place.**
Hold the SD card with the terminal side facing toward the front of the linear PCM recorder and insert the card in the direction of the arrow in the illustration.

2 **Close the slot cover.**
"Please Wait" appears on the display window and information required for operation is read from the recorder's built-in memory.
"Change Recording Folder to SD Card?" appears.

3 **Press the I◄◄ or ►►I button to select "Yes," and then press the ► button.**

4 **Press the ▲ or ▼ button to select the folder where you want to store recorded files, and then press the ► button.**

5 **Press the ●REC button to start recording.**

Note
Make sure that you are not recording, playing, or editing a file before you insert an SD card.

SD cards that can be used with the linear PCM recorder

With the linear PCM recorder, you can use the following SD cards.

SD card	Compatibility
SD card (capacity of up to 2 GB)	○
SDHC card (capacity of 4 GB to 32 GB)	○
SDXC card (capacity of 48 GB or more)	△*

* If a computer or an AV device does not support the exFAT** file system, you cannot import or play recorded files stored on the linear PCM recorder by connecting the recorder to the device with a USB cable. Make sure that the device supports the exFAT file system in advance. If you connect the linear PCM recorder to a device that does not support the exFAT file system, the format screen may be displayed. Do not execute the format process as it will erase all the recorded files.

　** exFAT is the file system used on the SDXC card.

For the latest information about the compatible SD cards, see customer support websites on page 84.

Due to the specifications of the linear PCM recorder, the maximum size of a single file that can be stored on the SD card is less than 4 GB for an LPCM file and less than 1 GB for an MP3 file.

Note

- Not all of the compatible SD cards are assured for successful operation.
- While recording or playback is in progress, do not:
  - remove/insert the SD card.
  - remove the batteries.
  - disconnect/connect the USB cable.
  Doing so may corrupt the data.

To remove the SD card

Make sure that "Please Wait" is not displayed on the display window, and then push the SD card into the recorder. When it pops out, remove it from the SD card slot.

Note

While recording or playback is in progress, do not:
- remove/insert the SD card.
- remove the batteries.
- disconnect/connect the USB cable.
Doing so may damage the data.

To change the memory storage for recorded files later

1. **While recording is on standby, press the OPTION button to display the OPTION menu, and then select "Recording Folder."**
   The Memory Selection screen is displayed.

2. **Press the ▲ or ▼ button to select "Built-In Memory" or "SD Card", and then press the ▶ button.**
   The selected memory storage is set for storing recorded files.

3. **Press the ▲ or ▼ button to select a folder, and then press the ▶ button.**

About the structure of folders and files

The structure of folders and files on the SD card is different from the one on the built-in memory (page 43).

Recording using other devices

Recording with the external microphone connected to the MIC IN/LINE IN jack

You can connect an external microphone (commercially available) to the MIC IN/LINE IN jack on the linear PCM recorder and use it for recording.

1 **Connect an external microphone to the MIC IN/LINE IN jack on the linear PCM recorder.**

Adjust the position of the microphone. For the characteristics of the microphone, refer to the operating instructions supplied with it.

External microphone (commercially available)

To the MIC IN/ LINE IN jack
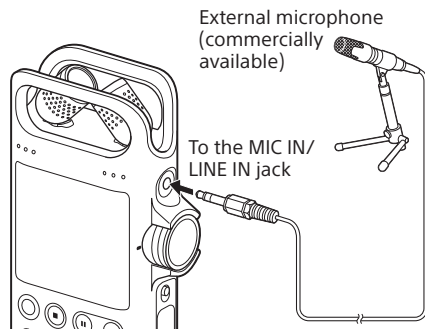
2 **Slide the INPUT switch to "MIC/LINE."**

3 **Slide the MIC/LINE INPUT LEVEL switch to "MIC."**

The Plug In Power screen is displayed. When a plug-in power microphone is connected, select "ON" to supply power to the microphone from the linear PCM recorder. If you select "OFF," the Plug In Power will not work.

4 **Follow steps 3 through 7 in "Recording using the built-in microphones" (page 31) to start recording.**

Note

When an external microphone is connected to the MIC IN/LINE IN jack on the linear PCM recorder, the built-in microphones cannot be used for recording.

Recording with the external microphone connected to the XLR/TRS jack(s)
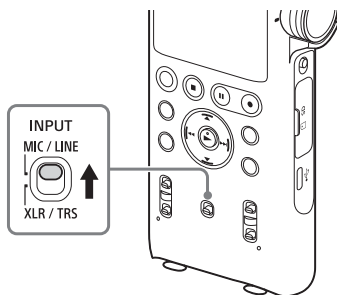
You can connect an external microphone (commercially available) to the XLR/TRS jack on the linear PCM recorder and use it for recording.

1 Slide the phantom power switch(es) to "OFF."

2 Connect an external microphone to the XLR/TRS jack(s) on the linear PCM recorder.

To record in stereo, connect the microphone to both of the XLR/TRS jacks for the left (L) and right (R) channels.

To record in monaural, connect it to the XLR/TRS jack for the left (L) channel.

Adjust the position of the microphone. For the characteristics of the microphone, refer to the operating instructions supplied with it.
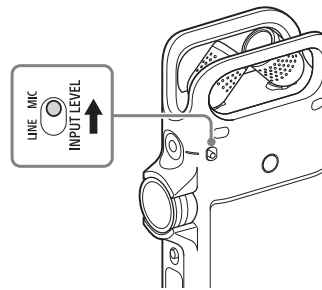
External microphone
(commercially available)
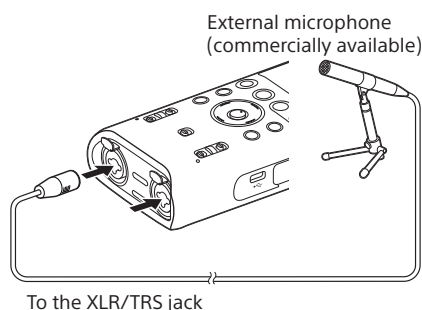
To the XLR/TRS jack

3 Slide the INPUT switch to "XLR/TRS."
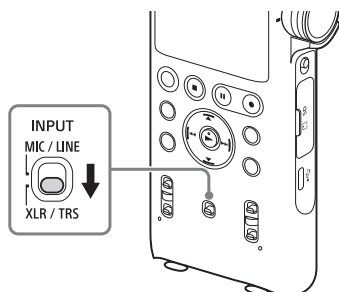
4 Slide the XLR/TRS INPUT LEVEL switch to "MIC."

When the microphone is connected to both of the XLR/TRS jacks for the left (L) and right (R) channels, slide both of the switches for the left (L) and right (R) channels.

5 If the connected external microphone supports phantom power, slide the phantom power switch(es) to "ON."

Power is supplied to the connected microphone.
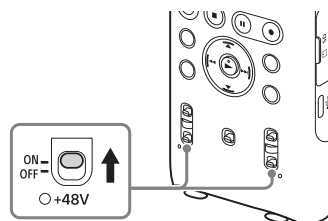
6 Follow steps 3 through 7 in "Recording using the built-in microphones" (page 31) to start recording.

7 To record in monaural, press the OPTION button while recording is on standby to display the OPTION menu, select "Stereo/Monaural" → "Monaural (L)," and then press the ► button.

Note

- **If a device is connected to the XLR/TRS jack(s), and if the left, right, or both the left and right XLR/TRS INPUT LEVEL switch(es) are set to the "LINE" position, the LIMITER and LCF(Low Cut) functions do not work.**

- Before connecting or disconnecting an external microphone or device, make sure that the phantom power switch is placed in the "OFF" position. If you plug or unplug the cable of the connected device while the switch is placed in the "ON" position, it may produce a loud noise or cause the device to malfunction.

- While the phantom power switch is placed in the "ON" position, the linear PCM recorder consumes more power. When you do not intend to use an external microphone with phantom power support, slide the switch to "OFF."

39

Turning down the external microphone volume at once (Microphone attenuation)

If the input level of the built-in microphones or external microphone is high, slide the MIC ATT switch to "20." This attenuates the input level by approximately 20 dB.

1 **When an external microphone is connected, slide the INPUT switch in accordance with the microphone.**
When the microphone is connected to the MIC IN/LINE IN jack, slide the switch to "MIC/LINE." When the microphone is connected to the XLR/TRS jack, slide it to "XLR/TRS."

2 **Slide the MIC/LINE INPUT LEVEL or XLR/TRS INPUT LEVEL switch to "MIC."**

3 **Slide the MIC ATT switch to "20."**
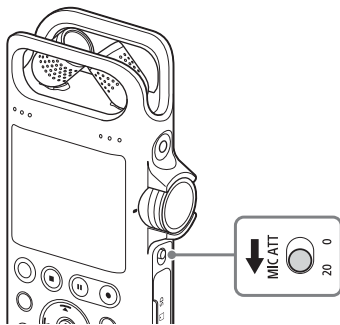
Recording audio from an external device through LINE input

You can connect an external device to the XLR/TRS jacks on the linear PCM recorder and record audio from the device through LINE input.

1 **Connect the audio output jacks on the external device and the XLR/TRS jacks on the linear PCM recorder with an audio cable (commercially available).**

2 **Slide the INPUT switch to "XLR/TRS."**

3 **Slide the XLR/TRS INPUT LEVEL switch to "LINE."**
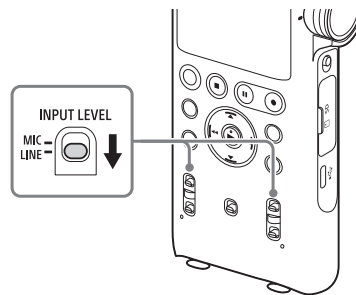
4 **Follow steps 3 through 6 in "Recording using the built-in microphones" (page 31).**

5 **Start playback on the external device.**

6 **Press the ‖REC PAUSE (or ▶) button where you want to start recording.**
The standby for recording mode is released, and recording starts.

Recording from an external device (LINE Input)

You can connect an external device such as a CD player, MD player, or DAT player to the linear PCM recorder and record its playback sound.

1 Connect the audio output jacks on the external device and the MIC IN/LINE IN jack on the linear PCM recorder with an audio cable (commercially available).

CD/MD/DAT player

To audio output jacks

To the MIC IN/ LINE IN jack

Audio cable (commercially available)
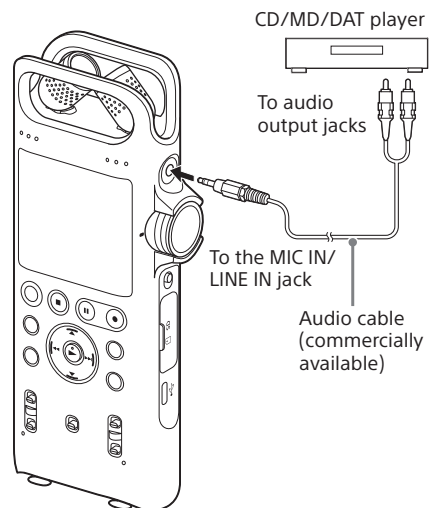
2 Slide the INPUT switch to "MIC/LINE."
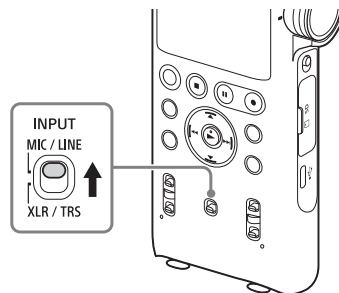
3 Slide the MIC/LINE INPUT LEVEL switch to "LINE."
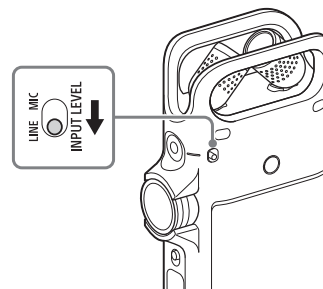
4 Follow steps 3 through 6 in "Recording using the built-in microphones" (page 31).

5 Start playback on the external device.

6 Press the ❚❚REC PAUSE (or ▶) button where you want to start recording.

The standby for recording mode is released, and recording starts.

Note
The LIMITER and LCF(Low Cut) functions do not work while an external device is connected to the MIC IN/ LINE IN jack and recording through LINE input is in progress.

Recording

Playback

VOL (volume) buttons

■STOP button

OPTION button

► button

▲, ▼, I◄◄ , ►►I button

BACK/HOME button

Speaker
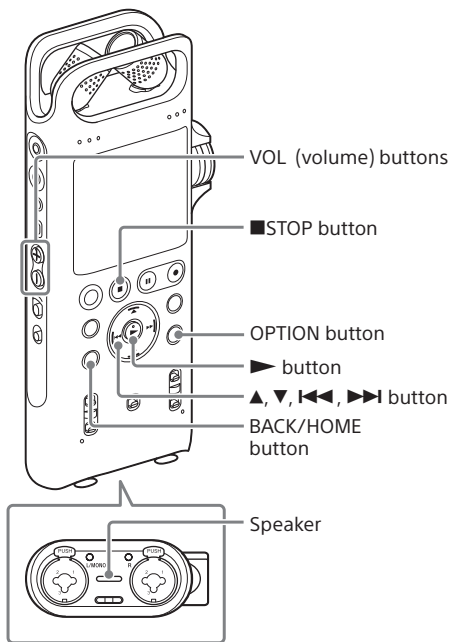
To listen through headphones

Connect headphones or earphones (not supplied) to the ∩ (headphones) jack on the linear PCM recorder.
To switch the audio output to the headphones, press the ∩ OUTPUT button. For details, see page 34.
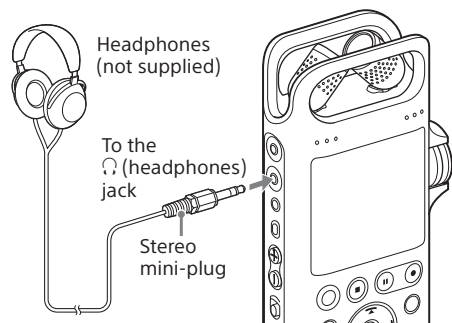
Headphones (not supplied)

To the ∩ (headphones) jack

Stereo mini-plug

1 Select a file you want to play using the HOME menu (page 25).

2 Press the ► button.
Playback starts.
▶ appears on the display window. All of the files in the playback range are played in order of file number.
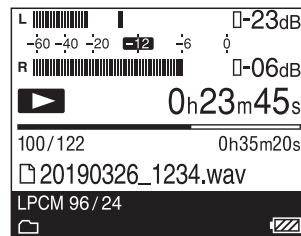
3 Adjust the volume with the VOL (volume) buttons.

4 To stop playback, press the ■STOP button.

Listening via the built-in speaker

1 Remove your headphones or earphones from the linear PCM recorder.

2 Select a file you want to play using the HOME menu (page 25).

3 Press the ► button.

4 Adjust the volume with the VOL (volume) buttons.

PCM-D10   4-744-528-11(1)

About folders and files

Structure of the folders and files on the linear PCM recorder

"⬜ Recorded Files" structure
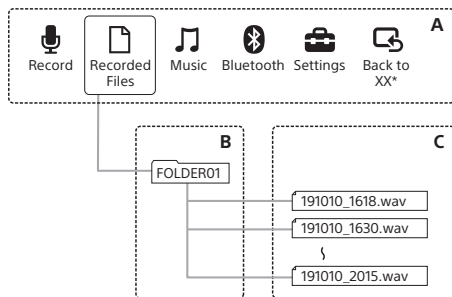
* The function you are currently using is displayed in "XX."

"♫ Music" structure
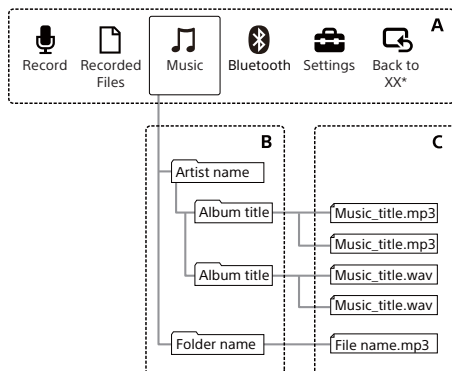
A:HOME menu **B**:Folder **C**:File

* The function you are currently using is displayed in "XX."

Structure of the folders and files on a computer

You can display the structure of folders and files on the linear PCM recorder on your computer by connecting the linear PCM recorder to your computer. Folders and files can be displayed by opening "PCMRECORDER" or "MEMORY CARD" in Explorer on a Windows computer or Finder on a Mac.
The following shows the structure of folders and files displayed on the computer.

Built-in memory
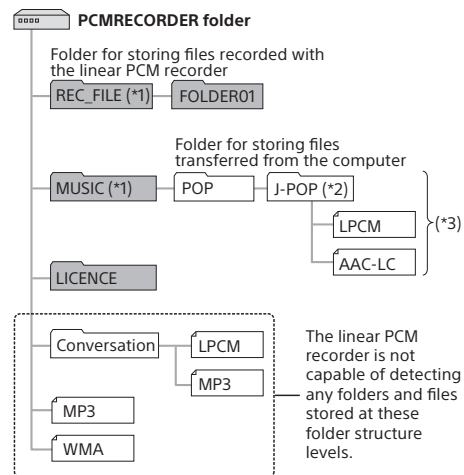
*¹ Files stored in the REC_FILE folder appear in "⬜ Recorded Files" while those in the MUSIC folder appear in "♫ Music." When transferring a file, make sure you put it either in the REC_FILE folder or in the MUSIC folder.

*² The folder containing music files will appear with the same name on your linear PCM recorder. It would help you identify folders if you name the folders with easy-to-remember names. The folder names shown in the above illustration are just examples.

*³ The linear PCM recorder is capable of detecting up to 8 levels of the transferred music folders.

About folders and files (continued)

Hint

- Before transferring music files from the computer to the linear PCM recorder, it would be helpful if you registered the music file information, such as titles and artist names, on the computer in advance. Then, you can display the music file information or use it for music file search on the linear PCM recorder.
- If a music file has no title assigned, the linear PCM recorder will display its file name.

SD card

The SD card has a different structure of folders and files from the built-in memory of the linear PCM recorder.
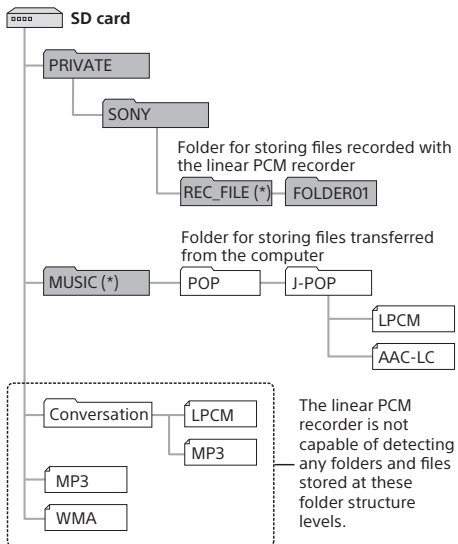
* Files stored in the REC_FILE folder appear in "🗋 Recorded Files" while those in the MUSIC folder appear in "🎵 Music." When transferring a file, make sure you put it either in the REC_FILE folder or in the MUSIC folder.

Other playback operations

Playing the file immediately after it is recorded

Stop recording and press the ► button while the recording standby screen is displayed.

Fast forwarding/reversing during playback (cueing/reviewing)

While playback is on standby or in progress, press and hold the ◄◄ (fast reverse/review) button or ►►I (fast forward/cue) button to search for the desired point and release the button.

Hint

Forward or backward search begins at a slow speed, which helps you check the file word by word. If you keep holding either button, forward or backward search will continue at a faster speed.

Playing a specific section repeatedly (A-B repeat)

You can specify the starting point A and the finishing point B in a file to play the section between the specified points repeatedly.

1 **While playback is on standby or in progress, press the ▼ ↪ A-B button to specify the starting point A.**
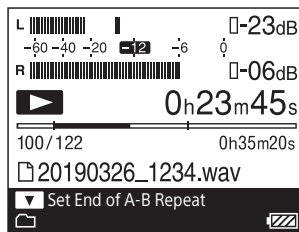
2 **Press the ▼ ↪ A-B button again to specify the finishing point B.**
The specified section plays repeatedly.

3 **To resume the normal playback, press the ▼ ↪ A-B button again.**

Note

While playback is on standby, you cannot specify the same point as the starting point A and the finishing point B. An attempt to do this cancels the specified starting point A.

Repeatedly playing the current file

You can repeat playback of the file you are currently playing by simply pressing and holding the ► button. To cancel this function, press the ► or ■STOP button.

Hint

- You can turn on the button-hold repeat playback function while the linear PCM recorder is in a particular Play Mode.
- You cannot turn on the button-hold repeat playback function while the A-B repeat playback function is active.

Locating a playback point with the track mark list

You can locate a playback point by simply selecting a track mark on the Track Mark List screen.
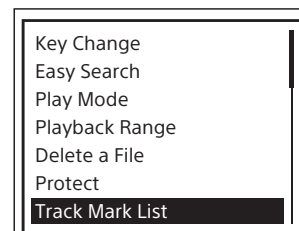
While playback is on standby or in progress, select "Track Mark List" on the OPTION menu and then select the desired track mark.

Other playback operations (continued)

Changing the Play Mode setting

You can select a Play Mode setting as needed, such as the mode setting for playing only 1 file or repeating the current file (page 68).

Equalizer
Key Change
Easy Search
Play Mode
Playback Range
Delete a File
Protect
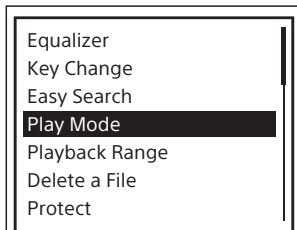
While playback is on standby or in progress, select "Play Mode" on the OPTION menu and then select the desired mode setting.

Specifying the playback range

You can select a file search category ("Latest Recording," "Search by REC Date," "Folders") to search " Recorded Files" for files and specify the playback range for the list of search results.

Equalizer
Key Change
Easy Search
Play Mode
Playback Range
Delete a File
Protect
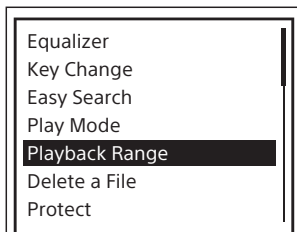
1 While playback is on standby or in progress, select "Playback Range" on the OPTION menu.

2 Select "All Range" or " Selected Range" (page 68).

Displaying the current file information

While playback is on standby, select "File Information" on the OPTION menu. You can display various information on the current file including the "Rec Date/Time," "File Length," "REC Mode," "LCF(Low Cut)," or "LIMITER" settings.

You can scroll the display by pressing the ▲ or ▼ button.

Rec Date/Time:
2019/01/01 10:10
File Length:
1h59m59s

46

Searching a desired point quickly (Easy Search)

The Easy Search function helps you quickly locate the point from which you want to play. To quickly locate your desired portion of a long recording, such as a recording of a meeting, specify the time period for forward/reverse skipping.

1 While playback is in progress or on standby, press the OPTION button to display the OPTION menu, select "Easy Search," and then press the ► button.

2 Press the ▲ or ▼ button to select "ON," and then press the ► button. To specify the time period for forward/reverse skipping, select "Set Skip Time," and then press the ► button.
If you select "ON," the "Easy Search" setting screen closes.
If you select "Set Skip Time," proceed to the next step.

3 Press the ▲ or ▼ button to select "Forward Skip Time" or "Reverse Skip Time," and then press the ► button.

4 Press the ▲ or ▼ button to select the time interval, and then press the ► button.

5 To set the other time interval, press the ► button and repeat steps 3 and 4.

6 When you have finished configuring this setting, press the ▲ or ▼ button to select "ON," and then press the ► button.

When "Easy Search" is set to ON
When you press the ◄◄ or ►►I button briefly while playback is in progress, you can quickly move the playback position back or forward by the specified skip time.

Setting the playback sound quality

Selecting a sound quality setting (Equalizer)

1 Select a file you want to play using the HOME menu (page 25).

2 While playback is in progress or on standby, press the OPTION button to display the OPTION menu, select "Equalizer," and then press the ► button.

3 Press the ▲ or ▼ button to select the desired sound quality setting, and then press the ► button.

OFF*	Disables the Equalizer function.
ON	Enables the Equalizer function.
Custom	You can define sound levels in 5 frequency bands.

* By default, "OFF" is selected.

Note

During playback with the built-in speaker, a Bluetooth audio device, or the device connected to LINE OUT jack on the linear PCM recorder, the Equalizer function does not work.

Customizing the sound quality

Select "Custom" in step 3 to display the custom setting screen.
Press the ◄◄ or ►►I button to select a frequency band from 100 Hz, 300 Hz, 1 kHz, 3 kHz, or 10 kHz, and then press the ▲ or ▼ button to adjust the level. You can adjust in 7 steps from –3 to +3.
When you have finished configuring this setting, press the ► button.

Adjusting the playback tone (Key Change)

You can adjust the playback sound to higher or lower semitones in 13 steps. This is useful for practicing songs to be recorded in accompaniment.

1 Select a file you want to play using the HOME menu (page 25).

2 While playback is in progress or on standby, press the OPTION button to display the OPTION menu, select "Key Change," and then press the ► button.

3 Press the ▲ or ▼ button to adjust the playback tone (Key Change).
The playback tone is adjusted a halftone higher (♯1 - ♯6).
The playback tone is adjusted a halftone lower (♭1 - ♭6).

Key Change
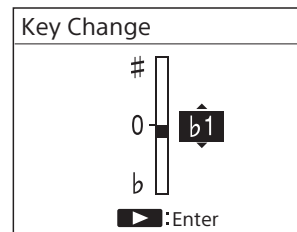
* By default, "0" is selected.

Adjusting the playback speed (DPC(Speed Control))

You can use the DPC(Speed Control) function to adjust the playback speed in a range from 0.25 times to 3.00 times. The file is played in natural tones using a digital processing function.

1 **Select a file you want to play using the HOME menu (page 25).**

2 **While playback is in progress or on standby, press the ▲ DPC (Speed Control) button.**

3 **Press the ▲ or ▼ button to select "ON," and press the ◄◄ or ►► button to adjust the playback speed.**
The speed decreases by 0.05 times (from x0.25 to x1.00).
The speed increases by 0.10 times (from x1.00 to x3.00).

```
DPC(Speed Control)

        ‹  x 0.70  ›
             ▲
           ON
             ▼

        ▶ : Enter
```
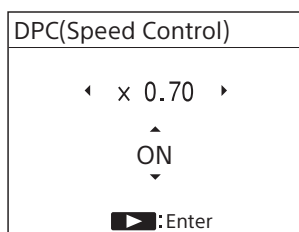
By default, "OFF" is selected.

4 **Press the ► button.**

You can select the playback speed as follows:

1.00 times - 0.25 times	FLAC files with the sampling frequency at 88.2 kHz or higher
2.00 times - 0.25 times	LPCM files with the sampling frequency at 88.2 kHz or higher, FLAC files with the sampling frequency below 88.2 kHz
3.00 times - 0.25 times	other than the above

Connecting an external device for playback

To output recorded files from speakers of an external device, connect the audio input jacks on the external device to the LINE OUT jack on the linear PCM recorder using an audio cable (commercially available).

AV amplifier/player (analog type)
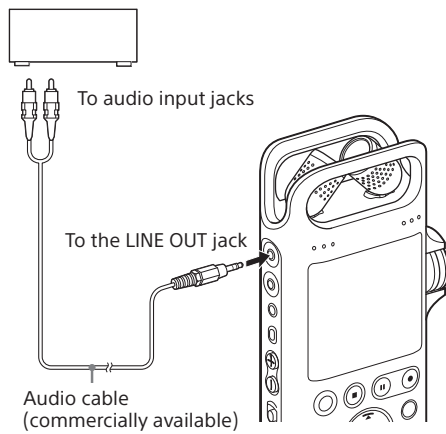
To audio input jacks

To the LINE OUT jack

Audio cable
(commercially available)

1 **Select a file you want to play using the HOME menu (page 25).**

2 **Press the ▶ button.**

Playback starts.

Note
If the audio cable is connected to the LINE OUT jack and audio is being output, the Equalizer function does not work.

Listening to wireless sound

You can establish a wireless connection between a Bluetooth audio device and the linear PCM recorder and listen to audio from the Bluetooth audio device.
However, you cannot monitor the ongoing recording with the Bluetooth audio device. Use the headphones connected to the ∩ (headphones) jack on the linear PCM recorder for monitoring.

Making device registration (pairing)

To establish a wireless connection between Bluetooth audio devices for the first time, you need to have the devices registered with each other. This device registration process is called "pairing."

1 **Place the Bluetooth audio device with which you want to establish a Bluetooth connection in pairing mode.**
Be sure to place the linear PCM recorder within 1 m (3 ft) from the Bluetooth audio device.

2 **While playback is on standby, press and hold the BACK/HOME button for 1 second or more to display the HOME menu, select "⑧ Bluetooth" → "Audio Device."**
The menu screen for audio devices is displayed on the display window.

Bluetooth
Bluetooth ON/OFF
Audio Device
REC Remote
NFC Settings
Bluetooth Information
Auto Standby Message

3 **Select "Add Device (Pairing)."**
When the Bluetooth function of the linear PCM recorder is turned off, "Turn Bluetooth On?" appears on the display window. Select "Yes," and then press the ► button.

When the linear PCM recorder is connected with another Bluetooth audio device, "Disconnect Connected Audio Device. Continue?" appears on the display window. Select "Yes."

Audio Device
Connect
Disconnect
Add Device (Pairing)
Manage Added Devices
Wireless Audio Quality
Volume Control

4 **Press the ► button to start searching for Bluetooth audio devices.**
The search for Bluetooth audio devices that are available for device registration starts and the list of the found devices appears on the display window.

5 **Select the Bluetooth device that you want to register (pair) with the linear PCM recorder.**
When the device is registered (paired), a Bluetooth connection is automatically established and "Connection Complete" appears on the display window.

6 **Start playback on the linear PCM recorder.**
Now, you can listen to audio from the Bluetooth audio device.

Note
When an external device is connected to the LINE OUT jack on the linear PCM recorder, no sound is output from the connected Bluetooth audio device. To monitor the output sound from the device connected to the LINE OUT jack, connect headphones to the ∩ (headphones) jack.

To disconnect the connection with the Bluetooth audio device
Select "⑧ Bluetooth" → "Audio Device" → "Disconnect" from the HOME menu.

Using BLUETOOTH® Function

51

To switch the audio output destination between the Bluetooth headphones and the headphones connected to the linear PCM recorder

While a Bluetooth connection is established, no sound is output from the headphones connected to the ⌒ (headphones) jack on the linear PCM recorder.
To use the connected headphones for listening, disconnect the Bluetooth connection.

Note

- The device registration (pairing) information is cleared in the following cases. You need to register (pair) the device with your linear PCM recorder once again.
  - The settings on either or both devices are reset to the default settings, for example, due to initialization.
  - The device registration (pairing) information is deleted, for example, during the course of a repair service.
  If the device registration (pairing) is deleted from the linear PCM recorder but the Bluetooth audio device still has the device registration (pairing) information of the linear PCM recorder, delete the information and make device registration (pairing) once again.
- While the Bluetooth function is turned on, the battery wears quickly to a large extent.
- Depending on the Bluetooth audio device connected with your linear PCM recorder, the communication environment, or the ambient conditions, you may hear noises or audio dropouts.
- Bluetooth wireless technology allows connection at distance of up to about 10 m (33 ft). However, the effective range may vary depending on obstructions (people, metals, wall, etc.) or signal status.
- The linear PCM recorder supports A2DP (Advanced Audio Distribution Profile) and AVRCP (Audio/Video Remote Control Profile) as the Bluetooth profile. To establish a Bluetooth connection with a Bluetooth device from the linear PCM recorder, the Bluetooth device must support A2DP. On a Bluetooth audio device that supports AVRCP, such as Bluetooth headphones, you can perform basic operations of the linear PCM recorder.
- If passkey* entry is prompted on the display window of your linear PCM recorder in the course of device registration (pairing), find out the passkey for the Bluetooth audio device and enter the passkey.

- You can register (pair) a single Bluetooth audio device with your linear PCM recorder at a time. To register (pair) multiple devices, perform the above procedure from step 1 for each device.
- If the same Bluetooth audio device name is displayed multiple times, check the device that you want to register (pair) for its BD address. To find out the BD address for the Bluetooth audio device, refer to the operating instructions supplied with the device.
- You can also establish/disconnect the Bluetooth connection by selecting "❈ Bluetooth" → "Bluetooth ON/OFF."

* The passkey may also be called "passcode," "PIN code," "PIN number," or "password." The passkey for the linear PCM recorder is "0000."
To find out the passkey for the Bluetooth audio device, refer to the operation instructions supplied with the device.

Establishing a Bluetooth connection with the one-touch operation (NFC connection)

You can register (pair) an NFC-compatible Bluetooth audio device and establish a Bluetooth connection with your linear PCM recorder by putting the recorder onto the device.

1 **If the Bluetooth audio device as the NFC switch, turn on the switch.**

2 **Put the linear PCM recorder onto the Bluetooth audio device.**
Align the ⓝ mark on the linear PCM recorder with the ⓝ mark on the Bluetooth audio device and keep them touched until an instruction appears on the display window of the linear PCM recorder.
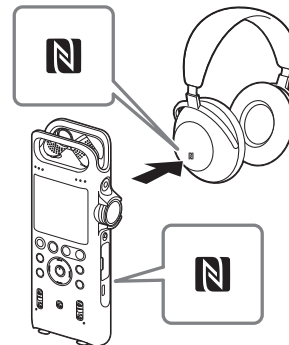
3 Follow the on-screen instructions until a Bluetooth is established.

Hint

- To disconnect the Bluetooth connection, put the linear PCM recorder onto the device once again.
- If Bluetooth connection is not established, keep your linear PCM recorder touched on the ![N] mark on the Bluetooth audio device and slowly move the recorder back and forth and around. See page 80 as well.

Note

- When a camera tripod (commercially available) is attached to the hole for attaching the tripod on the back of the linear PCM recorder, the ![N] mark on the recorder is hidden by the tripod and it is hard to establish a connection with the one-touch operation. When you intend to use the tripod, be sure to establish the connection before attaching it.
- While a recording process is in progress (the linear PCM recorder is in the recording, paused during recording, or standby for recording mode), you cannot establish a connection with the one-touch operation. Before establishing the connection, make sure that recording is on standby.

Using BLUETOOTH® Function

Operating the linear PCM recorder with a smartphone (REC Remote)

If you install the smartphone app, REC Remote, to a compatible smartphone, you can use the Bluetooth function of the linear PCM recorder to control its recording operations from the smartphone.
This remote control is convenient because you can secure the linear PCM recorder and remotely control its recording operations as well as eliminate the sounds you make when using the linear PCM recorder.

Note

- To connect the linear PCM recorder and REC Remote via a wireless connection, you need the latest version of REC Remote. When the smartphone already has REC Remote installed, update it to the latest version.
- REC Remote is merely an app designed for audio recording. You cannot use it for playback or sound monitoring during recording.
- You cannot adjust the recording volume level of the linear PCM recorder using REC Remote. Use the REC LEVEL dial on the linear PCM recorder for adjustment.

Making device registration (pairing)

To establish a Bluetooth connection between the linear PCM recorder and a smartphone, you need to make device registration (pairing).

Bluetooth
Bluetooth ON/OFF
Audio Device
REC Remote
NFC Settings
Bluetooth Information
Auto Standby Message

1 On the linear PCM recorder, select "🟦 Bluetooth" → "REC Remote" → "Add Device (Pairing)" from the HOME menu (page 22).
   If the Bluetooth function of the linear PCM recorder is turned off, "Turn Bluetooth On?" appears on the display window.

2 Select "Yes" to place the linear PCM recorder in pairing mode.

3 On the smartphone, turn on the Bluetooth function.

4 On the smartphone, start REC Remote.

5 Search for "PCM-D10" from the smartphone and have both devices registered with each other.

For details on connecting REC Remote on the smartphone with the linear PCM recorder, refer to the REC Remote Help.

Note

- The device registration (pairing) information is cleared in the following cases. You need to register (pair) the device with your linear PCM recorder once again.
  - The settings on either or both devices are reset to the default settings, for example, due to initialization.
  - The device registration (pairing) information is deleted, for example, during the course of a repair service.
  If the device registration (pairing) is deleted from the linear PCM recorder but the Bluetooth audio device still has the device registration (pairing) information of the linear PCM recorder, delete the information and make device registration (pairing) once again.

54

Other Bluetooth function

Turning on/off the Bluetooth function

Turn on/off the Bluetooth function.

Bluetooth
Bluetooth ON/OFF
Audio Device
REC Remote
NFC Settings
Bluetooth Information
Auto Standby Message

On the linear PCM recorder, select
" Bluetooth" → "Bluetooth ON/OFF," and
then select "ON" or "OFF" from the HOME
menu (page 22).

Viewing the Bluetooth information

You can view the Bluetooth information, such
as the version number and the profile.

Bluetooth
Bluetooth ON/OFF
Audio Device
REC Remote
NFC Settings
Bluetooth Information
Auto Standby Message

On the linear PCM recorder, select
" Bluetooth" → "Bluetooth Information" from
the HOME menu (page 22).

Deleting files

Deleting a file

1 Select a file that you want to delete from the HOME menu (page 25).

2 While playback is in progress or on standby, press the OPTION button to display the OPTION menu, select "Delete a File," and then press the ► button.

"Delete?" appears and the specified file is played for confirmation.

3 Press the ◄◄ or ►►I button to select "Yes," and press the ► button.

The file is erased.

To cancel erasing
In step 3, select "No," and press the ► button.

Deleting all of the files in a folder or list

1 Display the folder or list containing the files you want to delete (page 25).

2 Press the OPTION button to display the OPTION menu, select "Delete All Files" or "Delete All in List," and then press the ► button.

"Delete All Files in This Folder?" or "Delete All Files in This List?" appears on the display window.

3 Press the ◄◄ or ►►I button to select "Yes," and press the ► button.

All files in the selected folder or list are deleted.

Note
• Once a file has been deleted, you cannot retrieve it.
• You cannot delete a protected file. To delete the file, release the protection first.

Deleting part of a file
Follow the steps in "Dividing a file" (page 60) to divide the file into two files first.
Select the file you want to delete, press the OPTION button, and then select "Delete a File."

Protecting a file

You can protect an important file. A protected file is marked with the 🔒 (protect) indicator and is regarded as a read-only file that you cannot erase or edit.

1 **Select the recorded file that you want to protect from the HOME menu (page 25).**

2 **While playback is in progress or on standby, press the OPTION button to display the OPTION menu, select "Protect," and then press the ► button.**
The file is protected.

To release the protection
In step 2, select "Do Not Protect" on the OPTION menu and then press the ► button.

Changing the folder or file name

You can change the name of folders and files managed under "📄 Recorded Files" of the HOME menu.
When changing the folder name, you can select a folder name from the template.
When changing the file name, you can select a prefix (text or symbol) from the template and add it to the file name.

1 Select the desired folder or file from "📄 Recorded Files" of the HOME menu (page 25).

2 Press the OPTION button to display the OPTION menu and select "Change Folder Name" or "Change File Name."

3 Select the desired folder name or prefix from the template.

Note

- You cannot change the name of the folders and files managed under "🎵 Music."
- You cannot change the name of the protected file. Release the protection first (page 57), and then change the name.
- You can also change the folder or file name to an arbitrary name by using a computer.

Using track marks

Adding a track mark

You can add a track mark at a point at which you want to divide a file later or that you want to locate during playback. You can add a maximum of 98 track marks to each file. While recording or playback is in progress, press the T-MARK button at the position where you want to add a track mark.
The ▶ (track mark) indicator flashes 3 times, and a track mark is added.

While playback is in progress
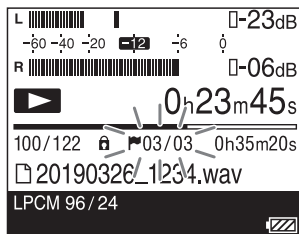
While recording is in progress
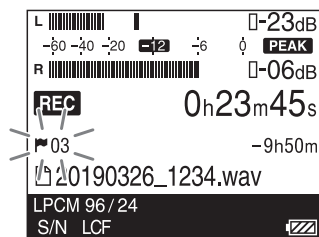
To locate a track mark and start playback
Press the |◄◄ or ►►| button while playback is on standby. When the ▶ (track mark) indicator flashes once, press the ► button.

Note
You cannot add a track mark to a protected file. To add a track mark to the file, release the protection first, and then add a track mark.

Deleting a track mark

You can delete the track mark that is located immediately before the current position.

1 Select the file with the track mark you want to delete from the HOME menu (page 25).

2 Stop at a position after the track mark you want to delete.

3 Press the OPTION button to display the OPTION menu, select "Delete Track Marks" → "This Track Mark," and then press the ► button.

4 When "Delete Track Mark?" appears, press the |◄◄ or ►►| button to select "Yes," and press the ► button.
The selected track mark is deleted.

To cancel deleting the track mark
In step 4, select "No," and press the ► button.

To delete all of the track marks in the selected file at once
In step 3, select "Delete Track Marks" → "All Track Marks" on the OPTION menu and then press the ► button. When "Delete All Track Marks?" appears, press the |◄◄ or ►►| button to select "Yes," and then press the ► button. All of the track marks in the selected file are deleted.

Note
You cannot delete track marks from a protected file. To delete track marks from a protected file, release the protection first, and then delete the track marks (page 59).

Editing

59

Dividing a file

Dividing a file at the current playback point

While no linear PCM recorder operations are in progress, you can divide a single file into two files. Dividing a file helps you quickly locate the point from which you want to play in a long recording file.

1 **Select the recorded file that you want to divide from the HOME menu (page 25) and stop the file at the point where you want to divide the file.**

2 **Press the OPTION button to display the OPTION menu, select "Divide" → "Current Position," and then press the ▶ button.**

A period of approximately 4 seconds from the dividing point plays repeatedly.

3 **Press the ◀◀ or ▶▶ button to confirm the point at which you want to divide the file, and then press the ▶ button.**

You can adjust the dividing point by approximately 0.25 seconds in a range of approximately 6 seconds before and after the current playback point.

```
┌─────────────────────────────┐
│ Divide Current Position     │
│                             │
│            ◀ ◆ ▶            │
│      ┌─────┬─────┐          │
│      │     │     │          │
│   −6s     0      +6s        │
│        0h23m31s             │
│                             │
│         ▶ :Enter            │
└─────────────────────────────┘
```
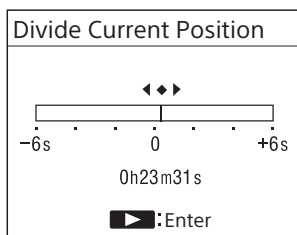
4 **When "Divide at Current Stop Position?" appears, press the ◀◀ or ▶▶ button to select "Yes," and then press the ▶ button.**

The file is divided into two. New file numbers are added to the divided files.

File 1	File 2_1	File 2_2
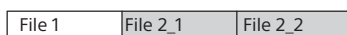
▲
The file is divided.

Dividing a file at all of the track mark positions

You can divide a file at all of the track mark positions.

1 **Select the recorded file that you want to divide from the HOME menu.**

2 **Press the OPTION button to display the OPTION menu, select "Divide" → "At All Track Marks," and then press the ▶ button.**

3 **When "Divide at All Track Marks?" appears, press the ◀◀ or ▶▶ button, select "Yes," and press the ▶ button.**

The file is divided at all of the track mark positions. All of the existing track marks in the files are deleted.

To cancel division
In step 3, select "No" and press the ▶ button.

Note

- While a file is playing, you cannot divide the file.
- On the linear PCM recorder, you cannot combine divided files.
  "SOUND FORGE Audio Studio 12" is capable of dividing and combining files.
- The divided files are named as follows:
  - "Divide Current Position": The divided files will be suffixed with a sequential number ("_1," "_2").
  - "At All Track Marks": A suffix made up of a sequential number ("_01," "_02") is added to each of the divided files.
- You cannot divide a file if:
  - The file is recorded by a device other than the linear PCM recorder.
  - The file is protected.
  - You try to divide the file at a point less than 0.5 seconds from the beginning or the end of the file.
  - The total number of recorded files reaches the maximum number of recordable files. ("File Full" appear on the display window.)
  - The new file name exceeds the maximum number of characters.
  - The file name after division is identical to an existing file in the folder.
  - There is a track mark less than 0.5 second from the division position (only when dividing at all of the track mark positions).
- If there is a track mark within 0.5 seconds of the dividing position (only when you are dividing a file at the current position), the division will be proceeded by deleting the track mark.
- BWF files have the same time stamp information as the source file.

Editing

Organizing files (Moving/copying files)

▲, ▼, |◄◄, ►►| button

OPTION button

► button

BACK/HOME button

Moving/copying a file

You can move or copy a selected file to the desired folder.

1 Select the file you want to move or copy from the HOME menu (page 25).

2 While playback is in progress or on standby, press the OPTION button to display the OPTION menu, select "Move File" or "File Copy," and then press the ► button.

3 Press the ▲ or ▼ button to select the desired destination storage.

Move File
Move to Built-In Memory
Move to SD Card

4 Press the ▲ or ▼ button to select the desired destination folder, and then press the ► button.

To cancel moving/copying the file
While "Please Wait" is displayed on the display window, press the BACK/HOME button. When "Stop the Process?" appears, press the |◄◄ or ►►| button to select "Yes," and press the ► button.

Note

• You cannot move or copy the files managed under "♫ Music."

• You cannot move a protected file. To move the file, release the protection first, and then move the file.

• When a file is moved, the file is removed from the source folder.

• When a file is copied, the copied file has the same file name as the source file.

62

Registering a function to the custom key (C1/C2)

By registering a frequently-used function to the custom key (C1/C2), you can simply press the custom button to quickly access the function and display the setting screen.

1 **Press and hold the BACK/HOME button for 1 second or more to display the HOME menu, select "🧰 Settings" → "Common Settings" → "Custom Key Settings," and then press the ► button.**
The Custom Key Settings screen is displayed.

2 **Press the ▲ or ▼ button to select "C1:" or "C2:," and then press the ► button.**
The functions you can assign to the selected custom key are listed.

3 **Press the ▲ or ▼ button to select the desired function, and press the ► button.**
The selected function is assigned to the custom key.
To quit the menu, press the BACK/HOME button.

Hint
By default, the following functions are allocated to the C1 and C2 buttons:
C1: LIMITER
C2: LCF(Low Cut)

Changing the settings

Menu	Item	Settings (*: Default setting)
Recording Settings	Recording Folder	You can select the memory storage and the storage folder where you store the files recorded using the linear PCM recorder (page 37).
	Create Folder	You can create a folder by selecting a memory storage ("Built-In Memory" or "SD Card") and a folder name from the template.
	REC Mode	You can set the recording mode in which the files are recorded. • LPCM You can select the sampling frequency and quantifying bit number for recording. 192 kHz/24 bit 176.4 kHz/24 bit 96 kHz/24 bit 96 kHz/16 bit 88.2 kHz/24 bit 88.2 kHz/16 bit 48 kHz/24 bit 48 kHz/16 bit 44.1 kHz/24 bit 44.1 kHz/16 bit* • MP3 320 kbps 128 kbps **Hint** • The files recorded in LPCM (WAV) format are compatible with the Broadcast Wave Format (BWF), thus have the time stamp information that indicate the start of recording. • Sampling frequency is a value that represents how many times an analog signal is converted into a digital signal (A/D conversion) per second. The larger the sampling frequency value, the better the sound quality, but it also increases the volume of data. The sound quality of 44.1 kHz is equivalent to that of a CD, 48 kHz is equivalent to that of a DAT, and 96 kHz is equivalent to DVD Audio. • Quantifying bit number is a value that represents the volume of data for 1 second of audio. The larger the bit number, the larger the volume of data and the better the sound quality.
	Stereo/Monaural	You can select "Stereo" or "Monaural (L)" in accordance with the input sound for recording. • Stereo*: The input sound is recorded in stereo. • Monaural (L): The input sound is recorded in monaural.
	Peak Hold	You can select whether the maximum value of the input signals (peak value) is maintained. Auto*: The peak value will be reset periodically. Manual: The peak value is maintained and displayed until you stop recording or execute "Reset Peak Data."

Menu	Item	Settings (*: Default setting)
Recording Settings	LCF(Low Cut)	When the LCF(Low Cut) function is activated, audio under the following frequencies is filtered and attenuated. This function reduces noise caused by the flow of an air-conditioner, outdoor air, etc. OFF*: The LCF(Low Cut) function is disabled. 75 Hz: Audio under the 75 Hz frequency is attenuated. 150 Hz: Audio under the 150 Hz frequency is attenuated. **Note** **If a device is connected to the XLR/TRS jack(s), and if the left, right, or both the left and right XLR/TRS INPUT LEVEL switch(es) are set to the "LINE" position, the LCF(Low Cut) function does not work.** **Hint** The 75 Hz filter may slightly affect the recorded sound quality. If you find that the setting is not effective enough, try "150Hz."
	LIMITER	With two A/D converters for 1 channel, the linear PCM recorder always reserves audio signals that are 12 dB lower than audio processed in the normal circuit in addition to the normal audio signals. If an over-input occurs, recorded data from the point at which the over-input starts is replaced and compensated. The limiter prevents sound distortion using a limiter minus time constant (not available for analog). You can set the time required for recovery from the influences of the digital limiter circuit: OFF*: The LIMITER function is disabled. 150 ms: The linear PCM recorder recovers within 150 milliseconds. 1 sec: The linear PCM recorder recovers within 1 second. 1 min: The linear PCM recorder recovers within 1 minute. • The limiter circuit functions to keep the signal level below the maximum input level. When a loud sound is input suddenly, the excess part of the sound is automatically set within the range of the maximum input level in order to prevent distortion. • The limiter circuit of the linear PCM recorder does not compensate for clipping when audio over 12 dB is input. In this case, sound may be distorted.

65

Menu	Item	Settings (*: Default setting)
Recording Settings	LIMITER	• When the setting is enabled, the peak value with the limiter circuit in operation appears if the maximum peak value exceeds 0 dB. • The recovery time represents the period when the linear PCM recorder records sound at a volume 12 dB lower than the normal circuit. In recordings where over-input occurs periodically, the recording volume may be changed so frequently that it disturbs you. If this occurs, try a longer recovery time setting. **Note** **If a device is connected to the XLR/TRS jack(s), and if the left, right, or both the left and right XLR/TRS INPUT LEVEL switch(es) are set to the "LINE" position, the LIMITER function does not work.**
	High S/N Mode	With two A/D converters for 1 channel, the linear PCM recorder always reserves audio signals that are 12 dB lower than audio processed in the normal circuit in addition to the normal audio signals. If an over-input occurs, recorded data from the point at which the over-input starts is replaced and compensated. Replacement is executed while maintaining the linearity of two A/D converters of different levels, realizing a high S/N ratio. Noise can be suppressed even with a low recording level. ON: The High S/N Mode function is enabled. OFF*: The High S/N Mode function is disabled. **Note** While the LIMITER function is active, the High S/N Mode function is disabled.
	PRE REC	You can buffer sound for approximately 5 seconds in the memory when you press the ●REC button and the linear PCM recorder is in standby for recording mode. When you press the ❚❚REC PAUSE (or the ►) button to start recording, recording actually starts 5 seconds prior to the point where the button is pressed. ON: The PRE REC (pre-recording) function is activated. When you start recording, the recorder starts recording sound 5 seconds prior to the point where the button is pressed. OFF*: The PRE REC (pre-recording) function is disabled. When you start recording, recording starts at the point where the button is pressed.
	Plug In Power	When a plug-in power type microphone is connected to the MIC IN/LINE IN jack on the linear PCM recorder, the linear PCM recorder can supply power to the microphone. You can turn the Plug In Power function on and off: ON: The linear PCM recorder supplies power to the connected plug-in power type microphone. OFF*: The linear PCM recorder does not supply power to the connected plug-in power type jack.

Menu	Item	Settings (*: Default setting)
Recording Settings	Cross-Memory REC	When the built-in memory or the SD card currently being used becomes full during recording, the linear PCM recorder automatically switches its destination to the other memory media and continues recording. You can enable or disable the Cross-Memory REC function. ON: The Cross-Memory REC function is enabled. OFF*: The Cross-Memory REC function is disabled. When the current memory media becomes full, the linear PCM recorder stops recording.
	Auto Track Marks	You can specify whether to add track marks automatically during recording. OFF* ON • Interval: Select the interval (5min, 10min, 15min, or 30min) for adding track marks. • Time Stamps: Select whether to add the time stamp when track marks are automatically added.
Playback Settings	Equalizer	You can set your desired sound quality (page 48). ON: Enables the Equalizer function. OFF*: Disables the Equalizer function. Custom: You can define sound levels in 5 frequency bands.
	Key Change	You can adjust the playback sound to higher or lower semitones, in 13 steps: ♯1 to ♯6 (by an increment of a half step), 0*, ♭1 to ♭6 (by a decrement of a half step) (page 48).
	Easy Search	By setting the forward or backward skip time interval, you can quickly locate the point at which you wish to start playback. ON: You can skip forward or backward by the specified skip time by pressing the ►►I or I◄◄ button while playback is in progress. OFF*: The Easy Search function is disabled. When you press the I◄◄ or ►►I button, the linear PCM recorder will move to the next or previous file. Set Skip Time: Sets the time to go forward or backward in easy searching. • Forward Skip Time: Sets the time to skip forward when you press the ►►I button. (5sec, 10sec*,30sec, 1min, 5min, or 10min) • Reverse Skip Time: Sets the time to skip backwards when you press the I◄◄ button. (1sec, 3sec*, 5sec, 10sec, 30sec, 1min, 5min, or 10min)

Editing

Menu	Item	Settings (*: Default setting)
Playback Settings	Play Mode	You can select the Play Mode setting, such as shuffle playback or repeat playback, according to your purpose. Normal*: Plays the files in the specified range one by one. Repeat: Plays the files in the specified range repeatedly. 1 File Play: Plays the current file to the end and stops. 1 File Repeat: Plays the current file repeatedly. Shuffle: Plays the files in the specified range at random. Shuffle Repeat: Plays the files in the specified range repeatedly at random.
	Playback Range	You can select a file search category ("Latest Recording," "Search by REC Date," "Folders") to search " Recorded Files" for files and specify the playback range for the list of search results. All Range: Plays all files in the results of searching " Recorded Files." Selected Range*: Plays all files that are contained in the folder (recording date, artist name, album title, etc.), including the current playing file.
Common Settings	LED	The peak level indicators, ●REC indicator, and ❚❚REC PAUSE indicator light up or flash to represent the operational status of the recorder. ON*: The indicators light up or flash. OFF: The indicators do not light up or flash.
	Backlight	You can select a period of time to turn on and off the backlight of the display window. Only by LIGHT Key: The backlight lights or goes out only when you press the LIGHT button. 20sec*: The backlight lights for 20 seconds when you operate the linear PCM recorder. 1min: The backlight lights for 1 minute when you operate the linear PCM recorder. Always-ON: The backlight stays lit. When "Always-ON" is selected, the battery quickly runs out of power. When "Always-ON" is selected, the backlight still goes out in order to save battery power if you leave the linear PCM recorder unused for 1 minute while playback or recording is on standby.
	Beep	You can turn the operation beep sound on or off. ON*: A beep sounds. OFF: No beep sounds.

Menu	Item	Settings (*: Default setting)
Common Settings	Language	You may select the language to display the contents on the display window. English: The contents are displayed in English. 简体中文: The contents are displayed in Simplified Chinese. 繁體中文: The contents are displayed in Traditional Chinese. **Note** The number of language options you can select and their default settings differ depending on the country or region of your purchase.
	Date&Time	You can set the following. Set Date/Time: Set the current date and time (page 21). Date Display Format: Specify the date display format by selecting one of the following: • YYYY/MM/DD • MM/DD/YYYY • DD/MM/YYYY Time Display: Specify the time display format by selecting either of the following: • 12-Hour: 12:00AM = midnight, 12:00PM = noon • 24-Hour: 00:00 = midnight, 12:00 = noon **Note** The default setting differs depending on the country or region you purchased your linear PCM recorder.
	Auto Standby	You can disable the Auto Standby function or select a period of time before the linear PCM recorder turns off the display window and enters low-power consumption mode if it is left unused. OFF: The Auto Standby function is disabled. 5min: The linear PCM recorder enters low-power consumption mode in 5 minutes. 10min: The linear PCM recorder enters low-power consumption mode in 10 minutes. 30min*: The linear PCM recorder enters low-power consumption mode in 30 minutes. 60min: The linear PCM recorder enters low-power consumption mode in 60 minutes.
	Battery Setting	For optimum operations, you can select the type of batteries you are using for the linear PCM recorder. Alkaline Battery*: Select this option if using alkaline batteries. NiMH Battery: Select this option if using rechargeable NiMH batteries.

69

Menu	Item	Settings (*: Default setting)	
Common Settings	Custom Key Settings	By registering frequently-used functions to the C1 and C2 buttons, you can quickly access these functions and display the setting screen just pressing the C1 or C2 button (page 63). By default, the following functions are allocated to the C1 and C2 buttons: C1: LIMITER* C2: LCF(Low Cut)* To the C1 and C2 buttons, you can allocate the following functions: • Recording Folder • Create Folder • REC Mode • Stereo/Monaural • Peak Hold • Reset Peak Data • LCF(Low Cut) • LIMITER • High S/N Mode • PRE REC • Equalizer • Key Change • Easy Search • Play Mode • Playback Range • Protect • Delete • File Information	
	Reset/Format	Reset All Settings:	Restore the default settings for the menu items.
		Format Built-In Memory:	Erase all the data stored on the built-in memory and restores the folders in the default structure.
		Format SD Card:	Erase all the data stored on the SD card and restores the folders in the default structure.
		Note	
		• The Date&Time and Language settings remain after you restore the default settings with the Reset All Settings function. • Do not use a computer to format the SD card that you intend to use with the linear PCM recorder. • If you format the built-in memory or the SD card, all data stored there will be erased. (Protected files are also erased.) Note that once the files are deleted, you cannot retrieve them.	

Menu	Item	Settings (*: Default setting)
Common Settings	Available Rec. Time	Indicates the remaining recordable time in the current recording mode and the remaining capacity of the built-in memory and the SD card.
	System Information	You can check the system information, such as the linear PCM recorder model name and the version number of the software.

Editing

Using the linear PCM recorder with your computer

When the linear PCM recorder is connected to your computer, you can transfer data between them.

Copying files from the linear PCM recorder to your computer to store them

Copying files from your computer to the linear PCM recorder to play them

Using the linear PCM recorder as USB memory
You can save image data or text data from the computer temporarily in the linear PCM recorder. For details, see the Help Guide.

Editing files using the SOUND FORGE Audio Studio 12 software
The SOUND FORGE Audio Studio 12 software allows you to transfer the files that you have recorded using the linear PCM recorder to your computer to edit them. You can also transfer files stored on your computer to the linear PCM recorder. For instructions on using SOUND FORGE Audio Studio 12, refer to the Help guide of the application.

System requirements for your computer
For details on the system requirements for your computer, see page 92, or refer to "SOUND FORGE Audio Studio 12 Installation Guide" (supplied separately).

Connecting the linear PCM recorder to your computer

To exchange files between the linear PCM recorder and your computer, connect the linear PCM recorder to the computer.

1 **Connect the USB connector of the linear PCM recorder with the USB port of a running computer using the supplied USB cable.**

Computer (commercially available)

To a USB port

To the USB Type-C™ connector

USB cable (supplied)
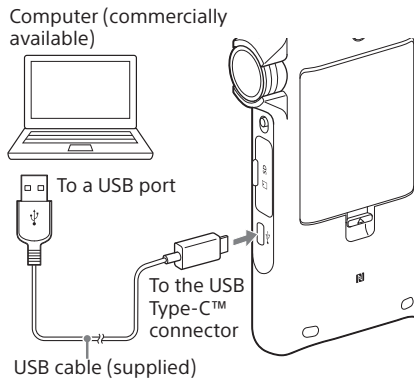
2 **Make sure the linear PCM recorder has been recognized properly.**

On the Windows screen, open "Computer" or "PC," and make sure that "PCMRECORDER" or "MEMORY CARD" has been recognized.
On the Mac screen, make sure that a "PCMRECORDER" or "MEMORY CARD" drive is displayed on the Finder.

The linear PCM recorder is recognized by the computer as soon as the connection is made, and then you can exchange files between the linear PCM recorder and the computer.
While the linear PCM recorder is connected to the computer, "Connecting" is displayed on the display window of the linear PCM recorder. You cannot charge the rechargeable batteries in the linear PCM recorder from the connected computer.

To disconnect the linear PCM recorder from your computer
Follow the procedures below; otherwise, when the linear PCM recorder contains data files, the files may be damaged.

1 **Perform the following operation on your computer.**

Windows:
On the Windows taskbar at the bottom right of the desktop, click the [icon], and then click "Eject PCMRECORDER."

Mac:
On a Mac screen, click the removal icon of the "PCMRECORDER" that appears on the sidebar of the Finder.
The icon and menu displayed can be different on different operating systems.

2 **Make sure that "Accessing" is not displayed on the display window.**

3 **Disconnect the linear PCM recorder from the USB port of the computer.**

For details on disconnecting the linear PCM recorder from the computer, refer to the operating instructions supplied with your computer.

Editing

PCM-D10   4-744-528-11(1)

Troubleshooting

If you experience trouble with your linear PCM recorder, try the following solutions.

1 **Turn off the linear PCM recorder completely by removing the batteries and then turn it on again. Or use the linear PCM recorder to initialize the built-in memory or the memory card. (Note that initializing will delete all data in the memory or in the memory card.)**

2 **Read through the symptoms and solutions on page 75 to 82 to check your recorder.**

3 **Should any problem persist after you have made these checks, consult your nearest Sony dealer.**

Please access the following support home page to get the support information about your linear PCM recorder:
For customers in Europe: https://www.sony.eu/DNA
For customers in the U.S.A.: https://www.sony.com/recordersupport
For customers in Canada: https://www.sony.ca/ElectronicsSupport
For customers in Latin America: https://www.sony-latin.com/index.crp
For customers in other countries/regions: https://www.sony-asia.com/support

Note that recorded files may be deleted during service or repair work.

Finding out causes/solutions from symptoms

Noise

Symptom	Cause/Solution
Noise is heard.	• An object, such as your finger, etc., accidentally rubbed or scratched the linear PCM recorder during recording with the built-in microphones so that noise was recorded. • Noise may occur if many small-sized files are recorded in the current memory. Save the files on the hard disk of your computer, and then format the memory (page 70). • The linear PCM recorder was placed near an AC source, a fluorescent lamp, or a mobile phone during recording or playback. Move the linear PCM recorder away from them. • Noise may occur if the plug of the connected external microphone was dirty when recording. Clean the plug. For details on how to clean the external microphone, refer to the operating instructions supplied with it. • Noise may occur if the plug for the headphones or earphones through which you are listening is dirty. Clean the plug. For details on how to clean the external microphone, refer to the operating instructions supplied with it.

The sound picked up is distorted.	• The MIC/LINE INPUT LEVEL switch or the XLR/TRS INPUT LEVEL switch is in the wrong position. Set it to the position that corresponds to the sound source and connections (pages 38, 39, 41).
	• Adjust the recording level to an appropriate range (page 32).
	• If the sound source becomes too loud when using the built-in microphones or an external microphone to record, try one of the following.
	  – Adjust the recording volume level by turning the REC LEVEL dial (page 32).
	  – Slide the MIC ATT switch to "20" (page 40).
	  – Move the microphone away from the sound source.
	• The sound source has parts that are too loud. Enable "LIMITER" on the menu (page 29).

Howling noises (acoustic feedback) occur during recording.	• If you place the headphones extremely close to the built-in microphones while monitoring the ongoing recording, howling noises (acoustic feedback) may occur. Turn down the headphone volume or move the headphones away from the built-in microphones.

Troubleshooting

Finding out causes/solutions from symptoms (continued)

Recording

Symptom	Cause/Solution
You cannot start recording.	• The MIC/LINE INPUT LEVEL switch or the XLR/TRS INPUT LEVEL switch is in the wrong position. When using the built-in microphones or an external microphone for recording, slide the switch to "MIC." When using the connected external device for recording, slide the switch to "LINE" (pages 38, 39, 41). • If a recording starts and no playback sounds are heard, the recording volume may be too low. Turn the REC LEVEL dial to adjust the volume. • You cannot record in folders managed under "♫ Music." • The memory is full, or the maximum number of files (199 files) has already been recorded. You cannot record any more files. Select another folder (page 37) or delete some of the files (page 56). Or store the files on the hard disk of your computer, and then delete them from the linear PCM recorder. You can also use an SD card with sufficient capacity (page 36). • The write-protect switch of the SD card is placed in the "LOCK" position. Release the write-protect setting. • Check the "Plug In Power" setting of the menu if using the external microphone connected to the MIC IN/LINE IN jack (page 66). • If you are using a phantom power compatible microphone that is connected to one of the XLR/TRS jacks, first connect the microphone, and then slide the phantom power switch to "ON."
You cannot record files up to the maximum recordable time stated on page 88.	• If there are other formatted data (for example, images) saved in the memory, you cannot record files up to the maximum. • The SD card has a minimum size unit for a single recorded file. If a large number of files are recorded, the actual recordable time may be shorter than the stated maximum recordable time due to differences in the unit and actual file sizes. • The maximum recordable time stated on page 88 is estimated. It varies depending on the number of files. • Due to the above reasons, the sum of the total recorded time indicated by the counter (elapsed time) and the remaining recordable time may be shorter than the maximum recordable time. • Even when "Memory Full" appears and the linear PCM recorder stops recording, the linear PCM recorder has an extra memory space for editing. This is not a malfunction of the linear PCM recorder. • When the size of a single recorded file reaches the maximum size limit (4 GB for an LPCM file, and 1 GB for an MP3 file), the subsequent recording is saved in a new file due to the specifications of the linear PCM recorder.

Symptom	Cause/Solution
The SD card is not recognized.	• Since the SD card may contain image data or other files, the memory required for creating initial folders is insufficient. Use a tool, such as Windows Explorer or Mac Finder, to delete unnecessary files or initialize the SD card on the linear PCM recorder. • Select "Recording Folder" and then select "SD Card" on the Memory Selection screen (page 37).

Power

Symptom	Cause/Solution
The linear PCM recorder does not turn on or operate.	• The batteries have been inserted with the ⊕/⊖ facing in the incorrect direction. Reinsert them correctly (page 19). • The batteries have run out. Replace them with new ones (page 19). • The buttons are locked with the HOLD switch. Slide the HOLD switch to "OFF" (page 26). • The POWER switch is placed in the "OFF" position. Slide it to "ON."

Playback

Symptom	Cause/Solution
No sound comes out from the built-in speaker.	• A device is connected to the headphones or LINE OUT jack. Remove the headphones. • While the linear PCM recorder is connected with a Bluetooth audio device, no sound comes out from the built-in speaker. Disconnect the Bluetooth connection (page 51).
No sound comes out from the connected headphones.	• While the linear PCM recorder is connected with a Bluetooth audio device, no sound comes out from the connected headphones. Disconnect the Bluetooth connection (page 51).
No sound comes out from the connected Bluetooth audio device.	• While an external device is connected to the LINE OUT jack, no sound comes out from the audio device via a Bluetooth connection. Unplug the device from the LINE OUT jack.
Sound comes out from the built-in speaker even when headphones are plugged in.	• If you plug in the headphones not securely during playback, the sound may come out from the speaker. Unplug the headphones, and then plug them back securely.
Playback speed is too fast or too slow.	• "DPC(Speed Control)" on the menu is effective and the linear PCM recorder plays at the specified playback speed. Set "DPC(Speed Control)" to "OFF," or adjust the playback speed appropriately.

Troubleshooting

77

Finding out causes/solutions from symptoms (continued)

Symptom	Cause/Solution
A file cannot be played back.	• Files other than those the linear PCM recorder supports may not be played back. For details, see the specifications (page 85).

Editing

Symptom	Cause/Solution
You cannot delete a file.	• The inserted SD card is write-protected. Release the write-protect setting. • When you use a Windows computer, the file or the folder containing the file is set to "Read-only" on the computer. Display the file or the folder using Windows Explorer and remove the check for "Read-only" under "Properties." • When you use a Mac computer, the file or the folder containing the file is set to "Locked" on the computer. Display the file or the folder on Mac Finder and remove the check for "Locked" under "GetInfo" of "File." • The remaining battery power is insufficient. Replace the batteries with new ones (page 19). • The file is protected. Reset the protection setting.
You cannot divide a file.	• You need a certain amount of free space in the memory to divide a file. • 199 files have been recorded in the selected folder. Delete some of the files or select another folder. • Because of the system limitations, you may not be able to divide a file at the very beginning or at the very end of the file. • You cannot divide files other than those recorded using the linear PCM recorder (e.g., a file transferred from a computer). • You cannot divide a protected file. To divide the file, release the protection first.
You cannot move a file.	• You cannot move a protected file. To move the file, release the protection first. • You cannot move or copy the files managed under "♫ Music."

Indications

Symptom	Cause/Solution
The peak level indicators or the ●REC / ❚❚REC PAUSE indicator does not light/flash.	• The "LED" item in the "Common Settings" menu is set to "OFF." Display the menu and set it to "ON" (page 68).
"--y--m--d --:--" is displayed as the recorded date.	• The file may have been recorded by a model other than PCM-D10. The date and time recording format varies depending on the model.
There are fewer menu items on the OPTION menu.	• Some menu items are not displayed during playback or recording.
A character in a folder or file name is displayed in unreadable characters.	• The linear PCM recorder cannot support or display some special characters and symbols that are entered on a computer using Windows Explorer or Mac Finder.
The "Please Wait" message does not disappear.	• If the linear PCM recorder is required to process a large amount of data, the message may be displayed for an extended period of time. This is not a malfunction of the linear PCM recorder. Wait until the message disappears. In this case, do not remove the batteries.

Files

Symptom	Cause/Solution
The file transferred from your computer is not displayed or cannot be played back.	• The linear PCM recorder can recognize up to 8 levels of folders. • The files other than those the linear PCM recorder supports may not be displayed. Check the compatible file formats (page 85).

Computer

Symptom	Cause/Solution
The linear PCM recorder is not recognized by your computer. A folder/file cannot be transferred from your computer.	• Disconnect the linear PCM recorder from your computer and reconnect it. • Operation is not guaranteed if you use any system environment other than those that the linear PCM recorder support. • Depending on the USB port position, the linear PCM recorder may not be recognized. If this happens, try another port.

Troubleshooting

PCM-D10   4-744-528-11(1)

Finding out causes/solutions from symptoms (continued)

Bluetooth audio device

Symptom	Cause/Solution
You cannot make device registration (pairing) between the linear PCM recorder and a Bluetooth audio device.	• The linear PCM recorder and the Bluetooth audio device are too apart from each other. Bring them closer (within 1 m (3 ft) from each other) and try it once again.
You cannot establish a Bluetooth connection.	• The linear PCM recorder and the Bluetooth audio device are turned off. Turn on the linear PCM recorder and the Bluetooth audio device, and then make sure that the Bluetooth function is turned on. • The battery of the linear PCM recorder is running low or almost out of power. Replace the batteries with new ones. • The device registration (pairing) information is cleared in the following cases. You need to register (pair) the device with your linear PCM recorder once again. – The settings on either or both devices are reset to the default settings, for example, due to initialization. – The device registration (pairing) information is deleted, for example, during the course of a repair service. If the device registration (pairing) is deleted from the linear PCM recorder but the Bluetooth audio device still has the device registration (pairing) information of the linear PCM recorder, delete the information and make device registration (pairing) once again. • The linear PCM recorder and the Bluetooth audio device are too apart from each other. When the linear PCM recorder and the Bluetooth audio device are separated by a long distance, an attempt to establish a Bluetooth connection may fail or the established Bluetooth connection may be disconnected. Use them in a close vicinity.

Symptom	Cause/Solution
You cannot establish a Bluetooth connection with the one-touch operation (NFC connection).	• The linear PCM recorder is turned off. Make sure that the linear PCM recorder is turned on. • The NFC function of your linear PCM recorder is turned off. While playback is on standby, select " Bluetooth" → "NFC Settings" from the HOME menu (page 22) and make sure that "ON" is selected. • The NFC function of the Bluetooth audio device is turned off. Depending on the Bluetooth audio device, you need to turn on the NFC function or the power. For detailed instructions, refer to the manual supplied with the Bluetooth audio device. • While a recording process is in progress (the linear PCM recorder is in the recording, paused during recording, or standby for recording mode), you cannot establish a connection with the one-touch operation. Before establishing the connection, make sure that recording is on standby. • While "Audio Device Only" or "REC Remote Only" is selected for "Advanced," you cannot establish an NFC connection with the device that is not selected. If this is the cause of the issue, select "Auto(Preferred)." To view the Advanced setting, select " Bluetooth" → "NFC Settings" → "Advanced" from the HOME menu (page 22).
You cannot change the volume of the connected Bluetooth audio device from the linear PCM recorder.	• Depending on the connected Bluetooth audio device, you cannot change the volume of the device from the linear PCM recorder. • Some Bluetooth audio devices do not support volume operations in Standard mode. Disconnect the Bluetooth connection. Select " Bluetooth" → "Audio Device" → "Volume Control" → "Enhanced Mode" from the HOME menu (page 22) on the linear PCM recorder, establish a Bluetooth connection with the device, and then change the volume.

REC Remote

Symptom	Cause/Solution
You cannot make device registration (pairing) between the linear PCM recorder and a smartphone.	• The linear PCM recorder and the smartphone are too apart from each other. Bring them closer (within 1 m (3 ft) from each other) and try it once again.

Troubleshooting

Finding out causes/solutions from symptoms (continued)

Symptom	Cause/Solution
You cannot establish a Bluetooth connection.	• The linear PCM recorder and the smartphone are turned off. Turn on the linear PCM recorder and the smartphone, and then make sure that the Bluetooth function is turned on. • The battery of the linear PCM recorder is running low or almost out of power. Replace the batteries with new ones. • The device registration (pairing) information is cleared in the following cases. You need to register (pair) the device with your linear PCM recorder once again. 　– The settings on either or both devices are reset to the default settings, for example, due to initialization. 　– The device registration (pairing) information is deleted, for example, during the course of a repair service. If the device registration (pairing) is deleted from the linear PCM recorder but the Bluetooth audio device still has the device registration (pairing) information of the linear PCM recorder, delete the information and make device registration (pairing) once again. • The linear PCM recorder and the smartphone are too apart from each other. When the linear PCM recorder and the smartphone are separated by a long distance, an attempt to establish a Bluetooth connection may fail or the established Bluetooth connection may be disconnected. Use them in a close vicinity.
You cannot establish a Bluetooth connection with the one-touch operation (NFC connection).	• The linear PCM recorder is turned off. Make sure that the linear PCM recorder is turned on. • The NFC function of your linear PCM recorder is turned off. While playback is on standby, select "❽Bluetooth" → "NFC Settings" from the HOME menu (page 22) and make sure that "ON" is selected. • Unlock the smartphone screen. • The NFC function of the smartphone is turned off. Depending on the smartphone, you need to turn on the NFC function or the smartphone. For detailed instructions, refer to the manual supplied with the smartphone. • While a recording process is in progress (the linear PCM recorder is in the recording, paused during recording, or standby for recording mode), you cannot establish a connection with the one-touch operation. Before establishing the connection, make sure that recording is on standby. • While "Audio Device Only" or "REC Remote Only" is selected for "Advanced," you cannot establish an NFC connection with the device that is not selected. If this is the cause of the issue, select "Auto(Preferred)." To view the Advanced setting, select "❽Bluetooth" → "NFC Settings" → "Advanced" from the HOME menu (page 22).

82

System limitations

There are some system limitations of the linear PCM recorder. The issues described below are not malfunctions of the linear PCM recorder.

Symptom	Cause/Solution
You cannot record files up to the maximum recordable time.	If a mixture of recording modes are used for recording, the maximum recordable time depends on which recording modes are used because the maximum recordable time varies among recording modes. Therefore, the sum of the total recorded time indicated by the counter (elapsed time) and the remaining recordable time may be shorter than the maximum recordable time.
You cannot display or play back music files in order.	If you have transferred music files using your computer, those files are sorted by the track number of meta-data or by the filename.
A file is divided automatically.	The file being recorded has reached the maximum size limit (4 GB for an LPCM file, and 1 GB for an MP3 file). Therefore, it is automatically divided.
You cannot enter lowercase characters.	Depending on the combination of characters used for the name of a folder made on your computer, the characters may change to all capitals.
Unreadable characters or "□" are displayed in a folder name, a folder name, file name, artist name, or title.	A character which cannot be displayed on the linear PCM recorder has been used. The linear PCM recorder cannot support or display some special characters and symbols that can be entered using Windows Explorer or Mac Finder.
When you set A-B repeat playback, the set positions move a little.	Depending on the files, the set positions may move.
The remaining recordable time becomes shorter when you divide a file.	You need a certain amount of free space for a file management area to divide a file. Therefore, the remaining recordable time will be shortened.

Troubleshooting

Customer support websites and Help Guide

Customer support websites

Please access the following support websites to get the support information about your linear PCM recorder:

For customers in Europe:
https://www.sony.eu/DNA

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

For customers in the U.S.A.:
https://www.sony.com/recordersupport

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

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

Note that recorded files may be deleted during service or repair services.

Refer to the Help Guide

You can access the Help Guide at the following address:
http://rd1.sony.net/help/icd/pcmd10/h_zz/

Specifications

Technical specifications

Capacity *1*2 (User available capacity)	16 GB (Approx. 12.80 GB = 13,743,895,347 Byte)
Maximum number of files (for a folder)	199 files
Maximum number of files	5,000 files (including folders)
Frequency range	• LPCM 192 kHz/24 bit: 20 Hz - 45,000 Hz • LPCM 176.4 kHz/24 bit: 20 Hz - 45,000 Hz • LPCM 96 kHz/24 bit: 20 Hz - 40,000 Hz • LPCM 96 kHz/16 bit: 20 Hz - 40,000 Hz • LPCM 88.2 kHz/24 bit: 20 Hz - 38,000 Hz • LPCM 88.2 kHz/16 bit: 20 Hz - 38,000 Hz • LPCM 48 kHz/24 bit: 20 Hz - 22,000 Hz • LPCM 48 kHz/16 bit: 20 Hz - 22,000 Hz • LPCM 44.1 kHz/24 bit: 20 Hz - 20,000 Hz • LPCM 44.1 kHz/16 bit: 20 Hz - 20,000 Hz • MP3 320 kbps: 20 Hz - 20,000 Hz • MP3 128 kbps: 20 Hz - 16,000 Hz
File formats compatible for playback	• MP3 *3*4 • Bit rate: 32 kbps - 320 kbps (Supports variable bit rate (VBR)) • Sampling frequencies: 16/22.05/24/32/44.1/48 kHz • File extension: .mp3 • WMA *3*5 • Bit rate: 32 kbps - 192 kbps (Supports variable bit rate (VBR)) • Sampling frequencies: 44.1 kHz • File extension: .wma AAC-LC *3*6 • Bit rate: 16 kbps - 320 kbps (Supports variable bit rate (VBR)) • Sampling frequencies: 11.025/12/16/22.05/24/32/44.1/48 kHz • File extension: .m4a LPCM *3 • Quantization bit rate: 24 bit • Sampling frequencies: 192/176.4/96/88.2/48/44.1 kHz • File extension: .wav LPCM *3 • Quantization bit rate: 16 bit • Sampling frequencies: 192/176.4/96/88.2/48/44.1/22.05 kHz • File extension: .wav FLAC *3 • Quantization bit rate: 24 bit • Sampling frequencies: 192/176.4/96/88.2/48/44.1 kHz • File extension: .flac

Additional Information

Specifications (continued)

File formats compatible for playback	FLAC*3 • Quantization bit rate: 16 bit • Sampling frequencies: 192/176.4/96/88.2/48/44.1/22.05 kHz • File extension: .flac
Signal-to-noise ratio (S/N) (Input from the MIC/LINE jack, output from LINE OUT jack when recording/ playing back)	• When "High S/N Mode" is disabled: 96 dB or above • When "High S/N Mode" is enabled: 100 dB or above
Total harmonic distortion (Input from the MIC/LINE jack, output from LINE OUT jack when recording/ playing back)	0.006% or below (1 kHz, 22 kHz LPF)
Maximum sound pressure (built-in microphones)	128 dBSPL
Intrinsic noise (built-in microphones)	19 dBSPL(A) or below
Bluetooth	• Communication method: Bluetooth Standard version 4.0 • Maximum communication range *7: approx. 10 m (33 ft) (line of sight range) • Frequency band: 2.4 GHz band (2.4000 GHz - 2.4835 GHz) • Modulation method: FHSS • Compatible Bluetooth profiles*8: SPP 1.2 (Serial Port Profile) A2DP 1.3 (Advanced Audio Distribution Profile) AVRCP 1.3 (Audio Video Remote Control Profile) • Maximum number of devices that can be registered: 8 (total number of the device with REC Remote installed and audio devices) • Supported Codec *9: SBC (Subband Codec)
Built-in speaker	Approx. 16 mm (0.63 in.) dia.
Input/output	• MIC IN/LINE IN jack (stereo mini-jack) Input impedance: approx. 22 kΩ Rated input level: approx. 2.5 mV Minimum input level: approx. 0.7 mV • XLR/TRS jack(s) Input impedance: approx. 22 kΩ Rated input level: approx. 2.5 mV Minimum input level: approx. 0.7 mV • Headphone jack (stereo mini-jack) Rated output level: approx. 400 mV Maximum output level: approx. 25 mV + 25 mV or above Recommended load impedance: approx. 16 Ω

Input/output	• LINE OUT jack (stereo mini-jack)
	Output impedance: approx. 220 Ω
	Rated output level: approx. 1.7 V
	Recommended load impedance: approx. 22 kΩ
	• USB connector (USB Type-C™, Hi-speed USB compatible)
	• Card slot: SD card slot
Playback speed control (DPC)	• 1.00 times - 0.25 times: FLAC files with the sampling frequency at 88.2 kHz or above
	• 2.00 times - 0.25 times: LPCM files with the sampling frequency at 88.2 kHz or above, FLAC files with the sampling frequency below 88 kHz
	• 3.00 times - 0.25 times: other than the above
Maximum power output	200 mW
Power requirements	Four size-AA alkaline batteries (supplied): 6 V DC
	Four nickel metal hydride rechargeable batteries NH-AA (not supplied): 4.8 V DC
Ambient conditions	Operating temperature: 5 °C - 35 °C (41 °F - 95 °F)
	Operating humidity: 25 % - 75 %
	Storage temperature: -10 °C - +45 °C (14 °F - 113 °F)
	Storage humidity: 25 % - 75 %
Dimensions (not including projecting parts and controls)	Approx. 80.0 mm x 197.0 mm x 37.0 mm (3.15 x 7.76 x 1.46 inches) (Width/Height/Depth)
Mass	Approx. 470 g (16.58 oz) (including batteries)
Supplied accessories	See page 18

[*1] A small amount of the built-in memory is used for file management and therefore not available for user storage.

[*2] Applies when the built-in memory is formatted by the linear PCM recorder.

[*3] Not all encoders are supported.

[*4] Playback of the MP3 files recorded by the linear PCM recorder is also supported.

[*5] WMA Ver.9 is compatible, however, MBR (Multi Bit Rate), Lossless, Professional, and Voice are not supported.

[*6] Copyright-protected files are not available for playback.

[*7] Varies depending on the communication conditions.

[*8] A Bluetooth profile is a specification that standardizes features of individual characteristics of the Bluetooth device.

[*9] Audio compression conversion method

Design and specifications are subject to change without notice.

Additional Information

Specifications (continued)

Maximum recordable time*

The total maximum recordable time of all the folders is as follows.

REC Mode	Built-in memory
LPCM 192kHz/24bit (STEREO)	3 hours 15 minutes
LPCM 176.4kHz/24bit (STEREO)	3 hours 35 minutes
LPCM 96kHz/24bit (STEREO)	6 hours 35 minutes
LPCM 96kHz/16bit (STEREO)	9 hours 55 minutes
LPCM 88.2kHz/24bit (STEREO)	7 hours 10 minutes
LPCM 88.2kHz/16bit (STEREO)	10 hours 45 minutes
LPCM 48kHz/24bit (STEREO)	13 hours 15 minutes
LPCM 48kHz/16bit (STEREO)	19 hours 50 minutes
LPCM 44.1kHz/24bit (STEREO)	14 hours 25 minutes
LPCM 44.1kHz/16bit (STEREO)	21 hours 35 minutes
MP3 320 kbps (STEREO)	95 hours 25 minutes
MP3 128 kbps (STEREO)	238 hours

REC Mode	Memory card				
	16 GB	32 GB	64 GB	128 GB	256 GB
LPCM 192kHz/24bit (STEREO)	3 hours 40 minutes	7 hours 25 minutes	14 hours 50 minutes	29 hours 45 minutes	59 hours 35 minutes
LPCM 176.4kHz/24bit (STEREO)	4 hours	8 hours 5 minutes	16 hours 10 minutes	32 hours 25 minutes	64 hours 55 minutes
LPCM 96kHz/24bit (STEREO)	7 hours 25 minutes	14 hours 50 minutes	29 hours 45 minutes	59 hours 35 minutes	119 hours
LPCM 96kHz/16bit (STEREO)	11 hours 10 minutes	22 hours 20 minutes	44 hours 40 minutes	89 hours 25 minutes	178 hours
LPCM 88.2kHz/24bit (STEREO)	8 hours 5 minutes	16 hours 10 minutes	32 hours 25 minutes	64 hours 55 minutes	129 hours
LPCM 88.2kHz/16bit (STEREO)	12 hours 10 minutes	24 hours 20 minutes	48 hours 40 minutes	97 hours 20 minutes	194 hours
LPCM 48kHz/24bit (STEREO)	14 hours 50 minutes	29 hours 45 minutes	59 hours 35 minutes	119 hours	238 hours
LPCM 48kHz/16bit (STEREO)	22 hours 20 minutes	44 hours 40 minutes	89 hours 25 minutes	178 hours	357 hours

REC Mode	Memory card				
	16 GB	32 GB	64 GB	128 GB	256 GB
LPCM 44.1kHz/24bit (STEREO)	16 hours 10 minutes	32 hours 25 minutes	64 hours 55 minutes	124 hours	259 hours
LPCM 44.1kHz/16bit (STEREO)	24 hours 20 minutes	48 hours 40 minutes	97 hours 20 minutes	194 hours	389 hours
MP3 320 kbps (STEREO)	107 hours	214 hours	429 hours	858 hours	1,717 hours
MP3 128 kbps (STEREO)	268 hours	536 hours	1,073 hours	2,147 hours	4,294 hours

* The maximum recordable time in this topic is provided for your reference only, and may differ depending on the card specifications.

Maximum recordable time per file[1] [2]
The maximum recordable times provided here are all approximate.

REC Mode	Built-in memory
LPCM 192kHz/24bit (STEREO)	1 hour
LPCM 96kHz/24bit (STEREO)	2 hours
LPCM 44.1kHz/16bit (STEREO)	6 hours 45 minutes
MP3 320 kbps (STEREO)	7 hours 25 minutes
MP3 128 kbps (STEREO)	18 hours 30 minutes

[1] The maximum recordable time in this topic is provided for your reference only, and may differ depending on the card specifications.
[2] If the file size reaches the maximum limit (4 GB for an LPCM file, and 1 GB for an MP3 file) during recording, the file will be divided.

The maximum playback time of a music file/number of files *

Bit rate	Playback time	Number of files
128 kbps	238 hours	3,570 files
256 kbps	119 hours	1,785 files

* In the case where MP3 files of 4 minutes each are transferred to the linear PCM recorder.

Additional Information

Specifications (continued)

Battery life

When using alkaline batteries (Continuous using of Sony alkaline battery LR6(SG)) *
The battery's life spans provided here are all approximate.

REC Mode	Recording		Recording (Phantom power for XLR microphone: ON)		Playback built-in through speakers	Playback with headphones	Recording with REC Remote	Playback via the Bluetooth connection
	while monitoring	not while monitoring	while monitoring	not while monitoring				
LPCM 192kHz/24bit (STEREO)	18 hours	24 hours	5 hours	5 hours	15 hours	15 hours	17 hours	17 hours
LPCM 96kHz/24bit (STEREO)	19 hours	26 hours	5 hours	5 hours	18 hours	18 hours	17 hours	17 hours
LPCM 48kHz/24bit (STEREO)	21 hours	29 hours	5 hours	5 hours	21 hours	21 hours	19 hours	19 hours
LPCM 48kHz/16bit (STEREO)	21 hours	29 hours	5 hours	5 hours	21 hours	21 hours	19 hours	19 hours
LPCM 44.1kHz/24bit (STEREO)	21 hours	29 hours	5 hours	5 hours	21 hours	21 hours	19 hours	19 hours
LPCM 44.1kHz/16bit (STEREO)	21 hours	29 hours	5 hours	5 hours	21 hours	21 hours	19 hours	19 hours
MP3 320kbps (STEREO)	21 hours	29 hours	5 hours	5 hours	21 hours	21 hours	19 hours	19 hours
MP3 128kbps (STEREO)	21 hours	29 hours	5 hours	5 hours	21 hours	21 hours	19 hours	19 hours

When using nickel metal hydride rechargeable batteries (Continuous using of Sony nickel metal hydride rechargeable battery NH-AA 1000 mAh) (not supplied) *
The battery's life spans provided here are all approximate.

REC Mode	Recording		Recording (Phantom power for XLR microphone: ON)		Playback built-in through speakers	Playback with headphones	Recording with REC Remote	Playback via the Bluetooth connection
	while monitoring	not while monitoring	while monitoring	not while monitoring				
LPCM 192kHz/24bit (STEREO)	15 hours	19 hours	3 hours	4 hours	14 hours	14 hours	13 hours	13 hours
LPCM 96kHz/24bit (STEREO)	16 hours	20 hours	3 hours	4 hours	16 hours	16 hours	13 hours	13 hours
LPCM 48kHz/24bit (STEREO)	17 hours	23 hours	3 hours	4 hours	18 hours	18 hours	15 hours	15 hours
LPCM 48kHz/16bit (STEREO)	17 hours	23 hours	3 hours	4 hours	18 hours	18 hours	15 hours	15 hours
LPCM 44.1kHz/24bit (STEREO)	17 hours	23 hours	3 hours	4 hours	18 hours	18 hours	15 hours	15 hours
LPCM 44.1kHz/16bit (STEREO)	17 hours	23 hours	3 hours	4 hours	18 hours	18 hours	15 hours	15 hours
MP3 320kbps (STEREO)	17 hours	23 hours	3 hours	4 hours	18 hours	18 hours	15 hours	15 hours
MP3 128kbps (STEREO)	17 hours	23 hours	3 hours	4 hours	18 hours	18 hours	15 hours	15 hours

* Measured values acquired under our measurement conditions. The battery life may shorten depending on how you operate the linear PCM recorder.

Additional Information

Specifications (continued)

System requirements

When you use the linear PCM recorder connected to a computer or as a USB mass storage device, your computer must meet the operating system requirements and port environment described below.
To use your computer with the SOUND FORGE Audio Studio 12 software, refer to "SOUND FORGE Audio Studio 12 Installation Guide" (supplied separately).

Operating systems

- Windows 10/Windows 8.1/Windows 7 (Service Pack 1 or higher)
- macOS (v10.10 - v10.13)

Note

- One of the above operating systems should be by default pre-installed. Any operating system other than those indicated above, upgraded operating systems or multi-boot environment are not supported.
- For the latest version information and compatibility with your operating system, please access the customer support home page for the linear PCM recorder.

Hardware environment

- Port: USB port
- Disc drive: To create a music CD, you need a CD-R/RW drive.

Precautions

On power
DC 6.0 V: Use four LR6 (size AA) alkaline batteries
DC 4.8 V: Use four NH-AA rechargeable batteries
DC 5.0 V: when power supplied using USB
Rated current consumption: 500 mA

On safety
Do not operate the unit while driving, cycling or operating any motorized vehicle.

On handling
- Do not leave the unit in a location near heat sources, or in a place subject to direct sunlight, excessive dust or mechanical shock.
- Should any solid object or liquid fall into the unit, remove the battery and have the unit checked by qualified personnel before operating it any further.
- When using your linear PCM recorder, remember to follow the precautions below in order to avoid warping the cabinet or causing the linear PCM recorder to malfunction.
  - Do not sit down with the linear PCM recorder in your back pocket.
  - Do not put your linear PCM recorder into a bag with the headphones/earphones cord wrapped around it and subject the bag to strong impact.
- Be careful not to allow water to splash on the unit. The unit is not waterproof. In particular, be careful in the following situations.
  - When you have the unit in your pocket and go to the bathroom, etc. When you bend down, the unit may drop into the water and may get wet.
  - When you use the unit in an environment where the unit is exposed to rain, snow, or humidity.
  - In circumstances where you get sweaty. If you touch the unit with wet hands or if you put the unit in the pocket of sweaty clothes, the unit may get wet.

- Listening with this unit at high volume may affect your hearing.
- For traffic safety, do not use this unit while driving or cycling.
- Do not use this unit at a place where the inability to hear surrounding sounds may present a danger.
- You may feel pain in your ears if you use the headphones when the ambient air is very dry.
  This is not because of a malfunction of the headphones, but because of static electricity accumulated in your body.
  You can reduce static electricity by wearing non-synthetic clothes that prevent the emergence of static electricity.

On noise
- Noise may be heard when the unit is placed near an AC power source, a fluorescent lamp or a mobile phone during recording or playback.
- Noise may be recorded when an object, such as your finger, etc., rubs or scratches the unit during recording.

On maintenance
To clean the exterior, use a soft cloth slightly moistened in water. Then use a soft dry cloth to wipe the exterior. Do not use alcohol, benzine or thinner.
If you have any questions or problems concerning your unit, please consult your nearest Sony dealer.

On using the SD card
- Be sure to use the linear PCM recorder to format an SD card (page 70). Operation of the SD card formatted by any device other than the linear PCM recorder, such as a computer, is not assured when used with the recorder.
  If you format an SD card with stored data, the data will be erased. Make sure that no valuable data is stored on the SD card before you format it.

Additional Information

93

Precautions (continued)

- Keep the SD card out of reach of small children to prevent them from accidentally swallow the card.
- While "Accessing," "Saving...," or "Please Wait" is displayed on the display window of the linear PCM recorder, do not remove the SD card from the recorder. Doing so may corrupt the data.
- Not all compatible SD cards are assured for operation with the linear PCM recorder.
- Read-only memory cards, SD cards protected against accidental erasure, and write-disabled SD cards are not available for use with the linear PCM recorder.
- The data stored on the SD card may be corrupted if:
  - you remove the SD card from the linear PCM recorder or turn off the recorder while access to the data is in progress.
  - you use the SD card in a place subject to static electricity or electrical noise.
- Be advised that Sony assume no liability for corruption or loss of your data.
- We recommend that you make a backup copy of your valuable data.
- Keep your hand or any metal object away from the terminals on the SD card.
- Keep the SD card against shock hazards and do not bend or drop the SD card.
- Keep the SD card out of water.
- Do not use the SD card in a place that is:
  - not fit the use conditions (inside a closed vehicle parked under the blazing sun or in summertime, near a heat source, etc.).
  - subject to extreme humidity or corrosive material.
- Before inserting the SD card, make sure that is in the correct orientation.
- Do not attach a label on the SD card. Doing so may cause the SD card stuck in the SD card slot.

Notes on the Bluetooth function

- Bluetooth wireless technology allows connection at a distance of up to about 10 m. However, the effective range may vary depending on obstructions (people, metals, walls, etc.) or signal status.
- Because Bluetooth and wireless LAN (IEEE802.11b/g) devices use the same frequency (2.4 GHz), signal interference may occur, resulting in communication speed decrease, noise, or inability to connect, if Bluetooth communications are used near a wireless LAN device. In such cases, take the following measures.
  - Perform Bluetooth communications at least 10 m away from the wireless LAN device when connecting your linear PCM recorder and a Bluetooth device.
  - Place your linear PCM recorder and the Bluetooth device as close together as possible.
  - Turn off the wireless LAN device when performing Bluetooth communications within about 10 m of a wireless LAN device.
- Radio waves emitted from a Bluetooth device may affect the operation of equipment such as electronic medical devices. Turn off your linear PCM recorder and other Bluetooth devices in the following locations as failure to do so may cause an accident.
  - In hospitals, near priority seats on trains, in airplanes, in places such as gasoline stations where flammable gases are present, near automatic doors or fire alarms.

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Additional Information

PCM-D10   4-744-528-11(1)

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Index

Additional Information