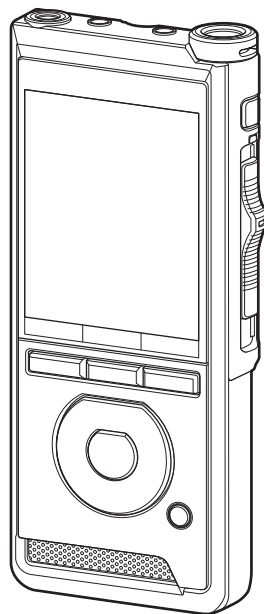**OM SYSTEM**

**DIGITAL
VOICE RECORDER**

DS-9100

INSTRUCTIONS

EN

Thank you for purchasing our company's digital voice recorder.
Please read these instructions for information about using the product correctly and safely.
Keep the instructions handy for future reference.

To ensure successful recording, we recommend that you test the record function and volume before use.

Table of contents

Table of contents

5 Other information

Indications used in this manual

NOTE

Describes precautions and operations that should be absolutely avoided in using the voice recorder.

TIP

Describes useful information and hints that will help you getting the most out of your voice recorder.

☞

Indicates reference pages describing details or related information.

This manual is the advanced version. Additionally, the basic version (Quick User Guide), which summarizes basic operation, is also included with this product.

This manual shows the English on screen display; you can switch the displaying language in [Language] (☞ P.35).

Getting started

Main features

- **Slide switch operation for ease of use and fast response.**

- **Three Programmable smart buttons F1,F2 and F3 (☞ P.42).**

- **Three recording modes are available for selection: DSS, PCM, and MP3 (☞ P.34).**

- **Three microphone modes are provided. Select the one that is the best match for your purpose or usage environment (☞ P.33).**

- **Data encryption function for securing recordings on the device.*1**
  It is possible to set the Encryption level to [**High**] (256 bit), [**Standard**] (128 bit) or [**No**] (deactivates the function).

- **Lithium ion battery rechargeable via USB cable or AC adapter.**

- **This recorder is compatible with USB 2.0, enabling fast data transfer to a computer.**

- **Five folders and up to 200 files per folder, for a maximum of 1,000 recordings (☞ P.17).**
  When using ODMS (OM Dictation Management System) software, it is possible to create up to seven folders (max. 1,400 files) (☞ P.42, P.43).

- **Device Lock function to prevent unauthorized access to device (☞ P.27, P.41).**
  Authentication system via password.

- **Large color LCD display.**

- **Index mark function which is useful to search particular points in the dictation files (☞ P.30).**

- **Verbal comment function which allows transcriptionists to instantly search and playback instructions on their computer (☞ P.29).**

- **Priority Setting (☞ P.33).**
  You can set a priority level on each file recorded.

- **This recorder has a drop resistance of 1.5 m.**

- **Rubbing alcohol can be used to keep this recorder clean (☞ P.46).**

- **A function is provided to resume operation from sleep when you pick the recorder up from your desk.**

- **Compatible with ODMS (OM Dictation Management System) software (☞ P.43).**
  The simple interface makes for an efficient workflow.

*1 PCM and MP3 files cannot be encrypted.

Names of parts

Recorder/ Docking station
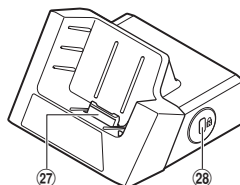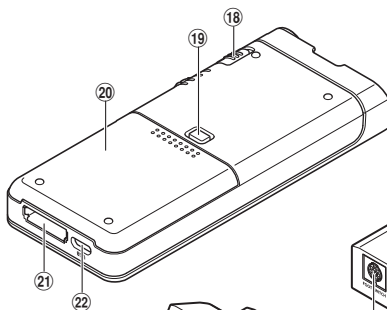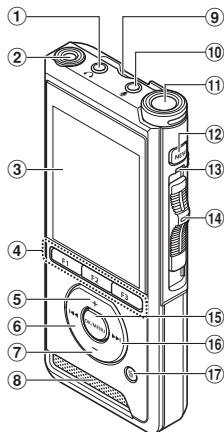
Docking station:
Available only in the kit version.

1. **⌒ (earphone) jack**
2. **Built-in 2nd microphone (L)**
3. **Display**
4. **Programmable smart (F1,F2,F3) buttons**
5. **+ (volume) button**
6. **|◀◀ (rewind) button**
7. **– (volume) button**
8. **Built-in speaker**
9. **SD card slot**
10. **⌕ (microphone) jack**
11. **Built-in main microphone (R)**
12. **NEW button**
13. **LED indicator light**
14. **Slide (●REC/ ■STOP/ ▶PLAY/ ◀◀REV) switch**

15. **OK/MENU button**
16. **▶▶| (fast forward) button**
17. **🗑 (erase) button**
18. **POWER (ON/OFF) switch**
19. **Battery cover release button**
20. **Battery cover**
21. **Docking station connector**
22. **USB connector**
23. **Foot switch connector**
24. **AC adaptor jack**
25. **USB connector (micro-B)**
26. **Ethernet cable connector**
   Ethernet connections not supported.
27. **Connector**
28. **Security slot**
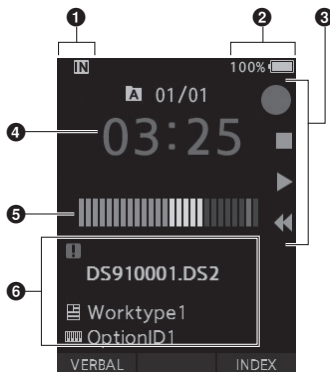
Display

Display in the recording mode
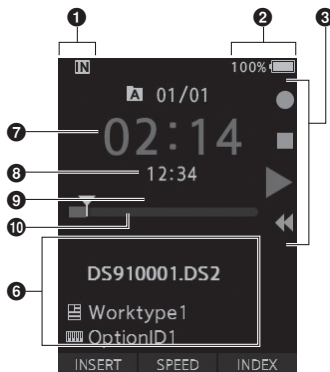
Display in the playback mode
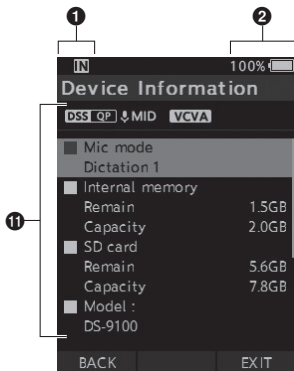
Display in the device information

Names of parts

1 **Recording media indicator**
[IN]: Internal memory
[SD]: SD card
[🔒SD]: SD card lock status

2 **Battery status indicator**

3 **Slide switch guide**
[●]: Recording indicator
[■]: Stop indicator
[▶]: Playback indicator
[◀◀]: Fast-rewind indicator

4 **Current recording time**

5 **Recording level meter**

6 **File information area**
[🔒]: File lock
[🔊]: Speech recognition
[🗐]: Worktype
[▥]: Option item
[👤]: Author

7 **Current playback time**

8 **File length**

9 **Current position**

10 **Playback position bar**

11 **Device information area**
[DSS QP] [PCM ST] [MP3 128], etc.: Recording mode
[🎤HIGH] [🎤MID] [🎤LOW]: Microphone sensitivity
[VCVA]: VCVA (Variable Control Voice Actuator)

Inserting the battery

This recorder uses a lithium ion battery specified by our company (LI-92B). Do not use any other type of battery.

1 Lightly press down on the battery cover release button, then open the battery cover, as shown in the illustration below.
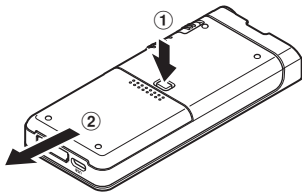
2 Insert the battery observing the correct polarity as shown in the illustration, then close the battery cover.

- Insert the battery by sliding in direction Ⓐ while pushing down in direction Ⓑ.
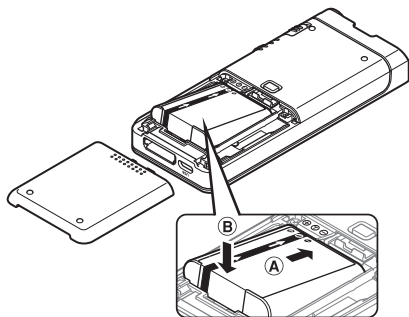
- The supplied battery is not fully charged. It is recommended to fully charge it before using the recorder for the first time or after the battery has been left unattended for a long time (☞ P.9).

Battery indicator

The battery indicator on the display will decrease as the battery loses power.

(100-20% White)   (19-1% Red)   (0 %)

- When the battery indicator turns red, charge the battery as soon as possible. When the battery is too weak, [🔲] and [**Battery low**] will appear on the display and the recorder will shut down.

NOTE

- Turn off the recorder before removing the battery. Removing the battery while the recorder is still in use may cause malfunctions, file corruption or file loss.
- Remove the battery if you are not going to use the recorder for an extended period of time.
- After removing the battery, it may become necessary to re-set the time and date if you leave the battery out of the recorder for more than 1 minute or if you remove the battery right after loading it into the recorder.

Charge the battery

After loading the battery into the recorder, you can charge it by connecting the USB cable to the recorder, or by using the docking station in combination with the USB cable or the AC adapter.

Charge using the docking station

Some kits do not include a docking station and AC adapter.

Charge using docking station and AC adapter

Fully charge the battery (approx. 2 hours) before use.

1 **Connect the AC adapter to the docking station.**

2 **Firmly press the recorder all the way into the docking station as shown in the illustration.**

CHARGE indicator light
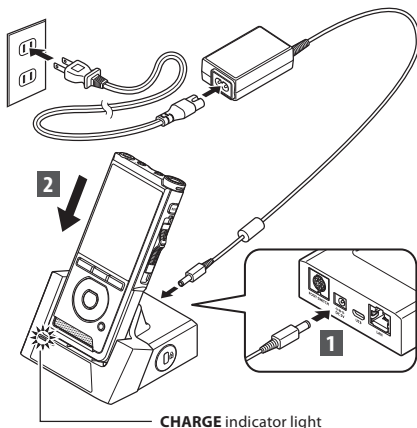
- The **CHARGE** indicator light turns on when charging starts, and turns off when charging is complete.

Charge using docking station and USB cable

Fully charge the battery (approx. 4 hours) before use. Verify that the recorder is in stop mode.

Connect the USB cable to the docking station.
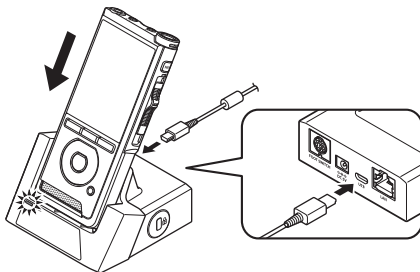
Charging directly via USB cable

After loading the battery into the recorder, you can charge it by connecting the USB cable to the recorder.

Connect the USB cable to the recorder.
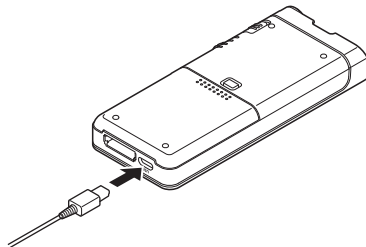
Charge the battery

NOTE

- Charge the battery frequently during the first period of use. The battery will perform better after several charge/discharge cycles.
- Models of batteries which are different from the included one may not be charged.
- Charging the battery via the USB cable connection may not be successful depending on the power capacity of the USB port in your PC. Use the AC adapter instead.
- Do not set or remove the recorder from the docking station while operating.
- Do not charge the recorder through a USB hub.
- Do not attach or remove the battery if the USB cable is connected.

Using the lithium ion battery

This recorder uses a lithium ion battery specified by our company (LI-92B). Do not use any other type of battery.

Cautions concerning the battery

Read the following instructions carefully when you use the battery.

Discharging:

Rechargeable batteries self-discharge while not in use. Charge it regularly before use.

Battery life:

Over time, the rechargeable battery may gradually wear down. When the operating time becomes shorter even if the rechargeable battery is fully charged under the specified condition, replace it with a new one.

Operating temperature:

Rechargeable batteries are chemical products. Battery efficiency may vary even when operating within the recommended temperature range. This is an inherent nature of these products.

Recommended temperature range of use:

During operation:
0°C - 42°C/ 32°F - 107.6°F
Charging:
5°C - 35°C/ 41°F - 95°F
Using the battery outside the above temperature range may result in declining efficiency and shorter battery life.

NOTE

- When disposing the batteries, always observe the local laws and regulations. Contact your local recycling center for proper disposal methods.
- If battery is not fully discharged, protect it against short-circuiting (e.g. by taping the contacts) before disposal.

For customers in Germany:

Our company has a contract with the GRS (Joint Battery Disposal Association) in Germany to ensure environmentally friendly disposal.

Power supply from AC adapter or USB cable

Use the AC adapter or USB cable when recording for extended period of time.
Some kits do not include a docking station and AC adapter.

Use the AC adapter

Plug the AC adapter into a household power outlet and connect the power plug to the recorder via the docking station. Always turn off the recorder before you connect power.

Detecting abnormal voltage

If the recorder detects a DC power voltage outside the allowed voltage range (4.4-5.5V), then [**Power supply error Remove power plug**] will appear on the display, and all operation will stop. The recorder will not be operable if abnormal voltage is detected. Use the AC adapter.

Power supply
error
Remove
power plug

Use the USB cable

1 **Verify that the recorder is in stop mode.**

2 **Connect the USB cable to the recorder.**

Turn the power on

Move the **POWER** switch to **ON** position to activate the recorder.
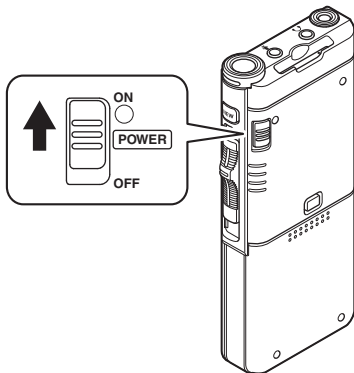
Memory card

The recorder has its own internal memory, and also supports standard SD/SDHC cards sold separately.

Compatible memory cards

The recorder supports memory card capacity from 4 GB up to 32 GB.

NOTE

- **When initializing (formatting) a memory card, confirm that no necessary data is stored on the memory card beforehand. Initialization completely erases the existing data on the memory card.**
- Memory cards formatted (initialized) by another device, like a computer, may not be recognized. Be sure to format them with this recorder before use.
- The memory card has a service life. When reaching the end of its life, writing or erasing data on the memory card will be disabled. In this case, replace the memory card.
- If you use a PC card adapter compatible with the memory card to save or delete some data on the memory card, the maximum recording time on the memory card may be decreased. To recover the original recording time, initialize/format the memory card in the recorder.

Memory card

Inserting and ejecting a memory card

Inserting a memory card

Insert the memory card fully into the card slot with the card facing the direction shown in the illustration below, until it clicks into place.

• **Insert the memory card keeping it straight.**
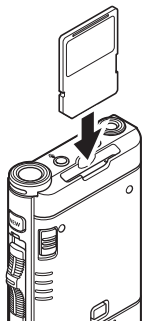
Memory card recognition

After inserting memory card, the message [**SD card selected**] will flash on the display while the recorder recognizes the memory card.

Ejecting a memory card

Push the memory card inward to unlock it and let it come out of the slot.

• **Hold the memory card straight and pull it out.**

NOTE

• **Inserting the memory card the wrong way or at an angle could damage the contact area or cause the memory card to jam.**
• **If the memory card is not inserted all the way into the slot, data may not be written properly.**
• When an unformatted memory card is inserted into the card slot, the recorder will automatically display the format menu options (☞ P.39).
• Use only memory cards formatted with the recorder (☞ P.39).
• Never remove the memory card while the recorder is operating, as this may damage the data.
• After pushing the memory card inward to eject it, releasing your finger too quickly may cause the memory card to be ejected unexpectedly.
• The recorder may not properly recognize the memory card even when that memory card is compatible with it.
• The processing performance reduces in a memory card when you repeat writing and deleting. In this case, format the memory card (☞ P.39).

Setting time and date [Time & date]

If you set the time and date beforehand, the information when the file is recorded is automatically stored for each file. Setting the time and date beforehand enables easier file management.

> **When you use the recorder for the first time after purchasing it, or when the battery has been inserted without the device being used for a long time, the [Set time & date] will appear.**
> **However, when a Password has been set as the device lock function (☞ P.27), the recorder will go to the time and date set screen after verification (unlocking).**
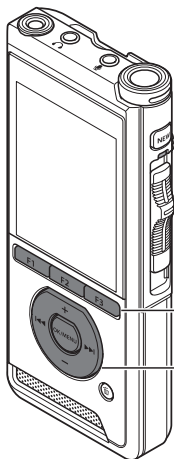
F1, F2, F3 button

OK/MENU button
+, – button
▶▶|, |◀◀ button

1 Press the ▶▶| or |◀◀ button to select the item to set.
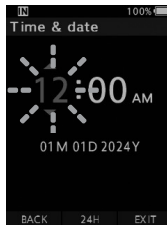
Select the item from the "**hour**", "**minute**", "**month**", "**day**" and "**year**" with a flashing point.

2 Press the + or – button to set.
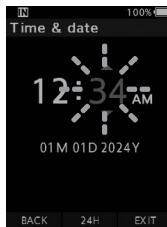
You can select between 12 and 24 hour display by pressing the **F2** (**24H**) button while setting the hour and minute.

- You can select the order of the "**Month**", "**Day**" and "**Year**" by pressing the **F2** (**M/D/Y**) button while setting them.

3 Press the OK/MENU button to complete the setting.

- The clock will start from the set date and time. Press the **OK/MENU** button according to the time signal.

TIP

- Moving the slide switch to a position other than **STOP** (■) while setting the time and date will cancel the time and date setting. The recorder will return to the previous time and date.
- You can set the time and date from your PC using ODMS and DSS Player software (☞ P.41).

Setting time and date [Time & date]

Changing the time and date

If the current time and date is not correct, set it using the procedure below.

1 When the file display screen appears, press the OK/MENU button while the voice recorder is in stop mode.

```
IN                        100%
File menu
  📄  File Information
      Priority
      Status
  🎤  File lock
      Worktype
  🖵

  ⚙️
                        EXIT
```
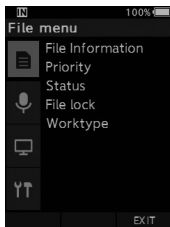
2 Press the + or – button to select [Device menu] tab.
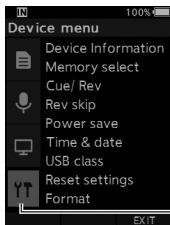
```
IN                        100%
Device menu
  📄  Device Information
      Memory select
      Cue/ Rev
  🎤  Rev skip
      Power save
  🖵  Time & date
      USB class
  ⚙️  Reset settings
      Format
                        EXIT
```
— [**Device menu**] tab

- You can change the menu display by moving the settings tab cursor.

3 Press the OK/MENU or ▶▶| button.

```
IN                        100%
Device menu
  📄  Device Information
      Memory select
      Cue/ Rev
  🎤  Rev skip
      Power save
  🖵  Time & date
      USB class
  ⚙️  Reset settings
      Format
  BACK                    EXIT
```
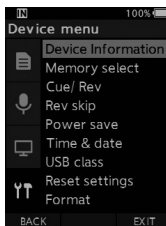
4 Press the + or – button to select [Time & date].

```
IN                        100%
Device menu
  📄  Device Information
      Memory select
      Cue/ Rev
  🎤  Rev skip
      Power save
  🖵  Time & date
      USB class
  ⚙️  Reset settings
      Format
  BACK                    EXIT
```
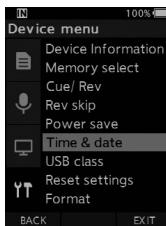
5 Press the OK/MENU button.
- The following steps are the same as Step 1 through Step 3 of "**Setting time and date [Time & date]**" (☞ P.14).

6 Press the F3 (EXIT) button to exit the menu screen.

Selecting folders and files

If the desired file is in the same folder, select it by performing the operation of step 4.

1 When the file display screen appears, press the F1 (FOLDER) button while the voice recorder is in stop mode.
- The folder list screen will be displayed.

2 Press the +, – or F1 (FOLDER) button to select the folder.

3 Press the OK/MENU or ▶▶ button.

4 While the file is being displayed, press the ▶▶ or ◄◄ button.
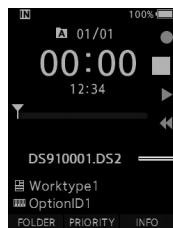
Current folder and file name

Operate the slide switch

Slide the slide switch on the side of the recorder up or down to perform the recording, stop, playback, and fast-rewind operations.
You can determine the current position at a glance even from the front because the slide switch works in conjunction with the slide switch guide on the screen.
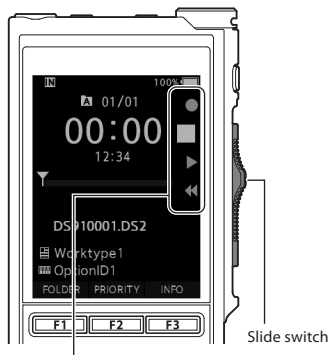
Slide switch

The place indicated large in the slide switch guide is the current slide switch position.

The figure shows the stop position.

Recording
Stop
Playback
Fast-rewind
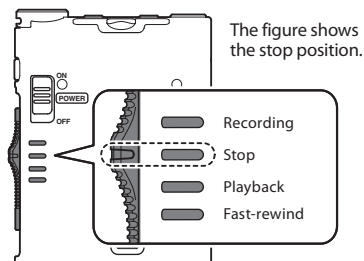
TIP

- If you use the ODMS software, you can change the assignments of the **NEW** button and slide switch (☞ P.42).

Basic operations

Recording

By default, the recorder has five folders, [**A**], [**B**], [**C**], [**D**], [**E**]. These five folders can be selectively used to distinguish the kind of recording. Up to 200 messages can be recorded per folder.

Record function

Before starting recording over a previously recorded file, the RECORD function can be set to the following:
* **Append:** Attaches the new recording to the end of the previously recorded file (☞ P.18).
* **Overwrite (default):** Overwrites and deletes part of the previously recorded file starting from the chosen position (☞ P.19).
* **Insert:** The recorded file will be inserted in the middle of the previously recorded file, starting from the chosen recording position. The original file will be kept (☞ P.20).

By default, the RECORD function is configured to record using the overwrite option.
Recording will start from the current position of the existing file.

NOTE

* Append recording, overwrite recording, and insert recording are not available for MP3 files.

Recording related settings

Recording related settings can be configured to provide a suitable recording environment.
* Hands-free recording (☞ P.21).
* Recording monitor (☞ P.21).
* Verbal Comment (☞ P.29).
* Microphone mode [**Mic mode**] (☞ P.33).
* Microphone sensitivity [**Mic sense**] (☞ P.33).
* Recording modes [**Rec mode**] (☞ P.34).
* Using the Variable Control Voice Actuator [**VCVA**] (☞ P.34).
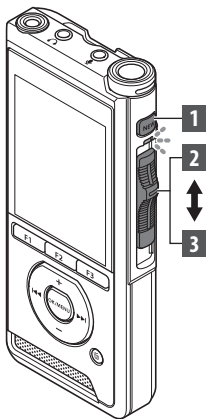
Recording

New recording

Create a new file to record in.

1 Press the NEW button to create a new file.
- [**New file**] appears in the display.
- It is possible to select the Worktype from the Worktype list uploaded using the ODMS software (☞ P.41).

ⓐ New file name
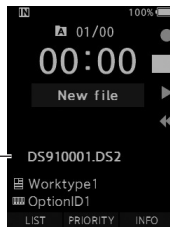
2 Move the slide switch to the REC (●) position to start recording.
- The LED indicator lights in red. Turn the microphone in the direction of the source to be recorded.

ⓑ Recording elapsed time

3 Move the slide switch to the STOP (■) position to stop recording.
- If you want to append additional recordings to the same file, move the slide switch to the **REC** (●) position again.

NOTE
- During recording, a beep will sound whenever the remaining recording time reaches 60, 30, and 10 seconds.
- When the remaining recording time reaches 60 seconds, the record indicator light will start flashing. The light will flash faster when the remaining recording time decreases from 30 to 10 seconds.
- [**Memory full**] or [**Folder full**] will be displayed when the memory or folder capacity is full.
  – Delete unnecessary files before recording any further (☞ P.24) or transfer dictation files to your PC.
  – Change the recording media at [**Memory select**] setting (☞ P.35) or change to a memory card with free space.

Recording

Overwrite recording

You can overwrite a previously recorded file starting from any point within the file. When using overwriting, the overwritten part will be erased.
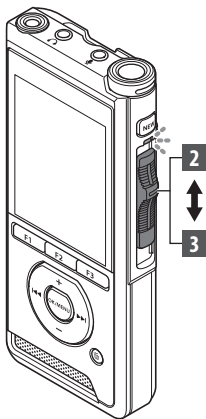
1 Select and play the file you want to overwrite.

- Stop the playback at the point you want to start overwriting.
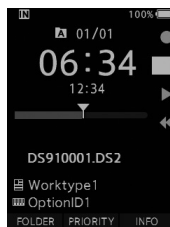
2 Move the slide switch to the REC (●) position to start overwriting.

- The LED indicator lights in red.

3 Move the slide switch to the STOP (■) position to stop overwriting.

ⓐ Total recording time of the file

NOTE

- A file's creation time and date will be updated to the time and date the file was last edited.
- You cannot select a recording mode different from the one set onto the original file.
- Overwrite recording is not available for MP3 files.
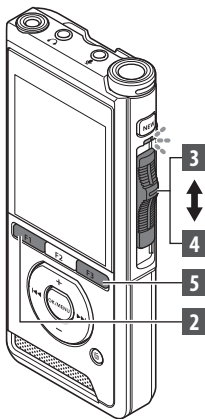
Recording

Insert recording

Additional recording can be inserted into previously recorded file.

1 Select and play the file you want to insert an additional recording into.

2 While playing the file, press the F1 (INSERT) button to insert an additional recording.

- [**Insert Rec?**] will appear on the display.

3 Move the slide switch to the REC (●) position to start inserting the additional recording.

- [**Insert rec**] will appear on the display. The LED indicator lights in blue.

ⓐ Elapsed time during insert recording

4 Move the slide switch to the STOP (■) position to stop inserting the additional recording.

5 Press the F3 (EXIT) button to stop insert recording.
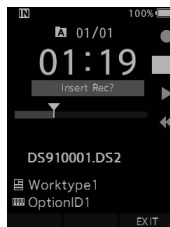
NOTE

- The recording's time and date will be updated to the one of the latest recording inserted.
- You cannot select a recording mode different from the one set onto the original file.
- Insert recording is not available for MP3 files.

Hands-free recording

The recorder can be used as a hands-free recording device. To set up the recorder for hands-free operation, connect our optional Foot Switch to the back of the docking station and place the recorder in the docking station as shown in the illustration below.

You can set the Hands-free function of the recorder to [**Dictation**] (default) or [**Transcription**] by using the Device Configuration Program (DCP). Using the DCP software you can also change the functions of the foot pedals (☞ P.42). You can download the DCP from here.

https://download.omsystem.com/pages/odms_download/device_configuration_program/en/
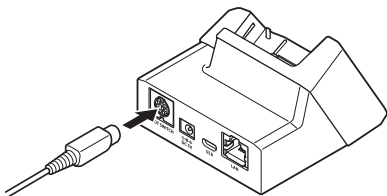
NOTE

- Move the slide switch to the **STOP** (■) position before connecting it to the docking station for hands-free recording.
- To record with better quality using the hands-free recording function, set the microphone sensitivity to [**High**] (☞ P.33), or use an external microphone.

Recording monitor

It is possible to monitor your recording by listening to it even while the recording is in progress. In order to do so, insert the earphone plug into the ⌒ (earphone) jack and use the **+** or **–** buttons to control the volume level.

+, – (Volume) button
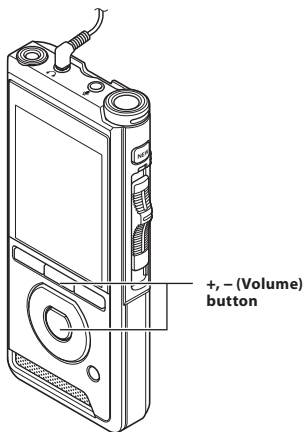
NOTE

- When connecting an earphone or an external microphone's plug, insert the plug all the way in as shown in the illustration above.
- To avoid irritation to the ear, insert the earphone after turning down the volume level.
- Do not place earphones near a microphone as this may cause feedback.
- The monitored audio may differ from the actually recorded audio.

Playback

You can playback a file starting from any point.
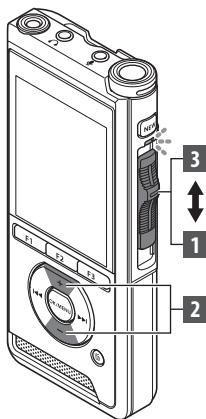
1 Select the file, then move the slide switch to the PLAY (▶) position to start playback.

- The LED indicator lights in green.

ⓐ Elapsed playback time
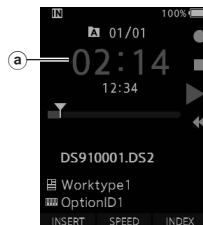
2 Press the + or – button to adjust the volume.

- The volume can be adjusted within a range from [**00**] to [**30**].
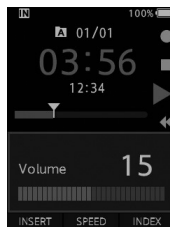
3 Move the slide switch to the STOP (■) position at any point you want to stop the playback.

Playback

Playback functions	Operation	How to cancel
Fast Forward (FF)	Press the ►►I button once while in stop mode.	Move the slide switch to a position other than the **STOP** (■) position. • The recorder starts the operation of the set position. Press the **OK/MENU** button.
Rewind (REW)	Press the I◄◄ button once while in stop mode.	
Cue (Cue)	Press and hold the ►►I button while in stop or playback mode.	Release the button.
Review (Rev)	Press and hold the I◄◄ button while in stop or playback mode.	Release the button.
	Move the slide switch to the **REV (◄◄)** position.	Release the slide switch.
Playback Speed	Press the **F2** (**SPEED**) button during playback. • The playback speed will change at each press of the **F2** (**SPEED**) button. **Play (playback):** Playback at normal speed. **Slow play (slow playback):** Playback speed slows down (-50%), and "Slow play" will be displayed. **Fast play (fast playback):** Playback speed becomes faster (+50%), and "Fast play" will be displayed.	

NOTE

- If you press the ►►I button once while fast-forwarding or twice while in stop mode, the recorder will stop at the end of the file (F.Skip).
- If you press the I◄◄ button once while rewinding or twice while in stop mode, the recorder will stop at the beginning of the file (B.Skip). If the I◄◄ button is pressed within 2 seconds, the recorder skips to the beginning of the previous file.
- If you press and hold the ►►I button while fast forwarding (FF), the recorder will continue to skip forward.
- If you press and hold the I◄◄ button while rewinding (REW), the recorder will continue to skip backward.
- The Cue and Review speed can be set from [**Speed 1**] to [**Speed 5**] (☞ P.36). Cue and Review playback sound can be set to [**On**] or [**Off**] (☞ P.36).

Erasing

Erasing files

A selected file can be erased from a folder. Also, all files in a folder can be erased simultaneously.

1 Select the file you want to erase.

2 Press the 🗑 (erase) button.

3 Press the + button to select [Erase all] or [Erase one file].
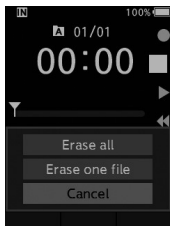
[**Erase all**]:
All files in a folder can be erased simultaneously.
[**Erase one file**]:
Erase one file.

4 Press the OK/MENU button.

5 Press the + button to select [Start], then press the OK/MENU button.
* The display changes to [**Erasing**] and erasing will start.
* [**Erased**] is displayed when the file is erased.

NOTE

* An erased file cannot be restored.
* The erasing process may take up to 10 seconds. Do not interrupt this process or data may be damaged.
* Files cannot be erased in the following cases.
  - Files are locked (☞ P.33).
  - Files stored on a locked memory card.

Erasing

Partially erasing a file

Any unnecessary part of a file can be erased.

1 Playback the file you would like to partially erase.

2 Press the 🗑 (erase) button at the point you want to start erasing.
- While playback continues, [**Start point**] will appear on the display.

3 In the position you want to end partial erase, press the 🗑 (erase) button again.
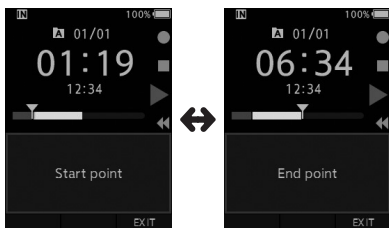
- The erase starting point (time) set in step 2 and the ending point (time) set in this step will be displayed alternatively for 8 seconds.
- If you let the playback continue until the end of the file, or in case of a Verbal comment (☞ P.29) before it, that will be considered the ending point of the partial erase.

4 Press the 🗑 (erase) button to confirm the erasure.
- The display changes to [**Partial erasing**] and erasing will start.
- When [**Partial erase completed**] appears on the display, partial erase is complete.

NOTE

- If the 🗑 (erase) button is not pressed within 8 seconds after the [**Start point**] and [**End point**] are alternately displayed, the recorder will revert to play back status.
- MP3 files cannot be partially erased.
- An erased file cannot be restored.
- The erasing process may take up to 10 seconds. Do not interrupt this process or data may be damaged.
- Files cannot be partially erased in the following cases.
  - Files are locked (☞ P.33).
  - Partial erasing is not possible on parts of files with a Verbal comment on them (☞ P.29).
  - Files are inside a locked memory card.

Displaying file information

The recorder can display a variety of information related to the current file.

1 Select the file containing the information to display.

— [**INFO**]

• The **F3** button becomes [**INFO**] when in stop mode.

2 Press the F3 (INFO) button.
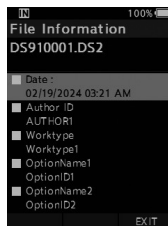
• The following information will be displayed:
  [**Date**] [**Author ID**] [**Worktype**]
  [**Option item**]

3 Press the F3 (EXIT) button to exit the information screen.

Device lock function

Access to the recorder can be restricted by using the Device Lock function. Password authentication can be safer for your data in case the recorder is lost.
The password can be set by using the Device Configuration Program (DCP) (☞ P.41).
You can download the DCP from here.
https://download.omsystem.com/pages/odms_download/device_configuration_program/en/

1 Use the +, –, ▶▶| or |◀◀ buttons to select a number.
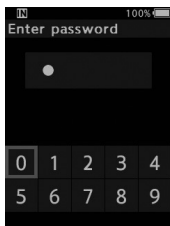
2 Press the OK/MENU button to set a number.
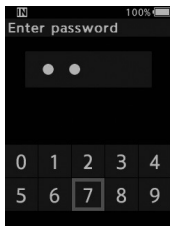
- A [■] will appear in the selected first digit and the flashing cursor will move to the next one over (to the right). Repeat steps 1 and 2 to enter all four digits.
- Pressing the 🗑 (erase) button at any time will erase the last entry and move the cursor to the previous entry (to the left).

3 After all four digits have been entered, press the F2 (ENTER) button.
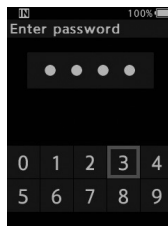
- If the 4 digit number entered matches the registered password then the start-up message will appear and the recorder will start-up.
- The default password when using the ODMS software to set the password for the first time is "0000".

Authentication halt mode

If the password does not match after five consecutive tries, the recorder will enter into authentication halt mode for ten minutes.
After ten minutes the password history will be deleted, and the recorder will return to the password input screen.
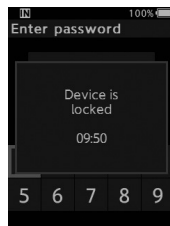
Setting the Author ID and Worktype

Every file recorded on the recorder will include the Author ID and Worktype as part of its header information. You can create multiple Author IDs when logged in to ODMS Cloud as an administrator. ODMS Cloud is required when configuring IDs for use with multiple dictation workflows. Workflows configured using the DCP will not be recognized by ODMS Cloud and consequently will not function as expected.

By default the Author ID is set to "DS9100".

Setting an Author ID

1 Turn ON the recorder.
- When [**Prompt for author ID at Power-on.**] has been set through ODMS software (☞ P.41), the registered Author ID list will appear.

2 Press the + or – button to select the Author ID that you want to assign to the recorder from the ID list.

3 Press the OK/MENU button to set the ID.

> ▥ 100%▨
> **Author ID**
> AUTHOR1
> AUTHOR2
> AUTHOR3
> AUTHOR4
> AUTHOR5
>
> EXIT
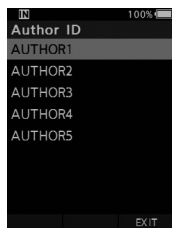
- When more than one Author ID exists/ is registered on the recorder, the ID list will be displayed.

NOTE

- Up to 10 Author ID entries can be registered (up to a maximum of 16 characters).

Setting the Worktype

You can upload up to 20 different Worktypes when logged in to ODMS Cloud as an administrator. Each Worktype can have up to 10 optional items associated with it. Worktypes and Optional Items can be used on the recorder to populate the file header information. For details, see the online help for ODMS Cloud.

The Worktype information of the recorded or uploaded files can be edited with the menu settings of the recorder (☞ P.37).

1 While the recorder is in stop mode, press the NEW button.
- When [**Prompt for Worktype ID on new recordings.**] has been set through ODMS software (☞ P.41), the Worktypes uploaded to the recorder will appear in a list.

2 Press the + or – button to select a Worktype from the Worktype list.

> ▥ 100%▨
> **WorkType**
> Worktype1
> Worktype2
> Worktype3
> Worktype4
> Worktype5
>
> EXIT
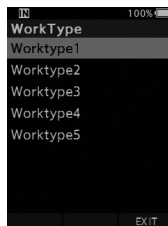
3 Press the OK/MENU button to set the Worktype.
- The selected Worktype and a maximum of 20 Optional Items associated to it can be recorded as file header information.
- It is possible to add an extra Value to the Optional Items list of the selected Worktype. In order to do so, go to the Worktype information screen (☞ P.37). For details, see the online help for ODMS Cloud.

Verbal Comment

Verbal comments are useful to append vocal instructions while recording.
It is possible to search and playback Verbal comments using the ODMS Cloud and ODMS software. Verbal comments are also useful to give instructions to transcriptionists.

Setting a Verbal Comment

1 **While the recorder is in recording mode, press and hold the F1 (VERBAL) button.**
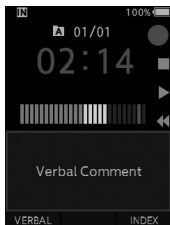
* Data recorded while pressing the **F1** (**VERBAL**) button will be recorded as Verbal Comment.

Locating a Verbal Comment

2 **When playing back a file, press and hold the ▶▶| or |◀◀ button.**
* The recorder stops for 1 second when it reaches the Verbal Comment.
* The verbal comment part has a different color.
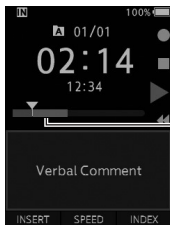
Verbal Comment part

Clearing a Verbal Comment

1 **When playing a Verbal Comment, press the 🗑 (erase) button.**

2 **Press the + button to select [Delete], then press the OK/MENU button.**
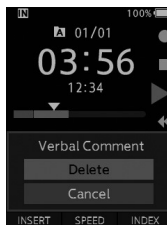
NOTE

* Up to 32 Verbal comments can be set within a file.
* When a file is locked or set to read-only, or when the memory card is locked, Verbal comments cannot be erased.
* When the recorder has been set to DSS Classic mode, it is not possible to record Verbal Comments.

Index marks

Index marks can be placed into a file during recording or playback. Index marks are used to provide a quick and easy way to identify important or significant parts within the file.

Setting an index mark

1 **While the recorder is in recording mode or in playback mode, press the F3 (INDEX) button.**
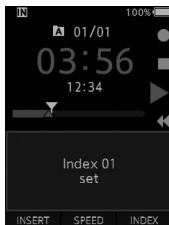
Locating an index mark

2 **While playing back a file, press and hold the ▶▶ or I◀◀ button.**

▲: index mark

• The recorder stops for 1 second when it reaches the index mark.

Clearing an index mark

1 **Select a file in which index marks you want to erase are contained.**

2 **Press the ▶▶ or I◀◀ button to select the index mark to erase.**

3 **While the index number appears for approximately 2 seconds on the display, press the 🗑 (erase) button.**
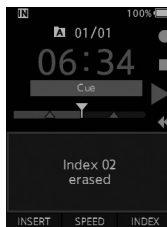
• The index mark is erased.

NOTE

• Up to 32 index marks can be set within a file.
• When a file is locked or set to read-only, or when the memory card is locked, index mark cannot be erased.
• If the recorder has been set to DSS Classic mode, index marks are limited to a maximum of 16 for each file.

How to use the menu

Items in menus are categorized by tabs, so select a tab first and move to a desired item to quickly set it. You can set each menu item as follows.
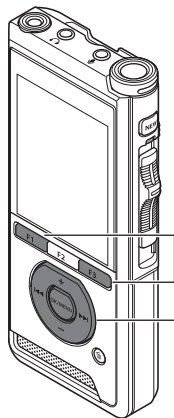
F1, F3 button

OK/MENU button
+, – button
▶▶|, |◀◀ button

1 When the file display screen appears, press the OK/MENU button while the voice recorder is in stop mode.

• The menu will appear on the display.
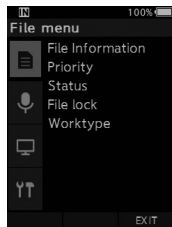
2 Press the + or – button to select the tab containing the item you want to set.

• You can change the menu display by moving the settings tab cursor.
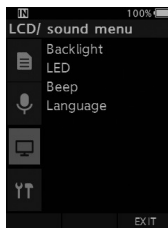
3 Press the OK/MENU or ▶▶| button to move the cursor to the desired setting item.

• You can change the menu display by moving the settings tab cursor.
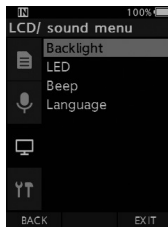
4 Press the + or – button to select the desired setting item.

• Move to the menu item you want to set.
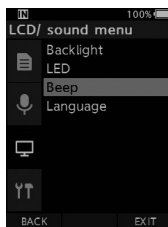
How to use the menu

5 Press the OK/MENU or ▶▶| button.
• Move to the setting of the selected item.
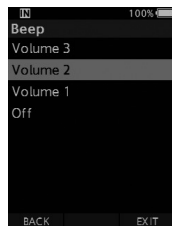
6 Press the + or – button to change the setting.

7 Press the OK/MENU button to finalize the setting.
• You will be informed that the settings have been established via the screen.
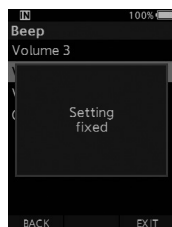
• You can cancel the setting and return to the previous screen by pressing the **F1** (**BACK**) or |◀◀ button instead of the **OK/MENU** button.

8 Press the F3 (EXIT) button to exit the menu screen.

Menu list	
File menu	**[File information]**
	[Priority]
	[Status]
	[File lock]
	[Worktype]
Recording menu	**[Mic mode]**
	[Mic sense]
	[Rec mode]
	[VCVA]
LCD/ sound menu	**[Backlight]**
	[LED]
	[Beep]
	[Language]
Device menu	**[Device Information]**
	[Memory select]
	[Cue/ Rev]
	[Rev skip]
	[Power save]
	[Time & date]
	[USB class]
	[Reset settings]
	[Format]

Menu items

📄 File menu

File information

The recorder can display a variety of information related to the current file.

Priority

By default, the **F2** button is programmed with the Priority function. The setting can also be performed from the menu.
You can set a priority level on each file recorded. You can select "high" or "normal". The default is normal level.
[**Set**]:
   High level.
[**Cancel**]:
   Normal level.
- Each time the **F2** (**PRIORITY**) button is pressed the Priority level will change (high/normal).

Status

When you set [**Pending**] to the file, the file becomes "Pending file". If "Download file" is set to "Finished file" by ODMS software, the [**Pending**] file is not transferred and only [**Finished**] file (edited file) will be transferred to your PC.
[**Pending**]:
   Sets to a file of "editing" and [☑] will appear on the information display.
[**Finished**]:
   Sets to a file of "already edited".

File lock

The File lock function allows you to prevent important files from being accidentally erased.
[**Lock**]:
   Locks the file and prevents it from being erased. [🔒] will appear on the display.
[**Unlock**]:
   Unlocks the file and allows it to be erased.

Worktype

The Worktype information of the recorded or uploaded files can be edited with the menu settings of the recorder.
For details, see "**Editing the Worktype information**" (☞ P.37).

🎤 Recording menu

Mic mode

To achieve high-quality audio recordings, select from the three microphone modes which best matches to your usage or environment.
[**Dictation 1**]:
   Recommended for recording in quiet environment.
[**Dictation 2**]:
   Narrows the directionality of the recording in order to capture the voice of the speaker. This is effective when recording in noisy environment.
[**Conference**]:
   Records in high quality stereo which is useful when recording multiple number of users in a conference room.
   Mic sense will be fixed to the Intelligent Auto Mode. In this mode, recording levels are automatically adjusted to match the volume of the sound source.

Mic sense

You can select from the three microphone sensitivities to meet recording needs.
[**High**]:
   The highest recording sensitivity. Suited to recording conferences.
[**Mid**]:
   Suited to recording dictation.
[**Low**]:
   The lowest recording sensitivity. Suited to recording close-talk.

Menu items

Rec mode

Three recording formats are available for selection: DS2, WAV, and MP3.

1 Select [DSS], [PCM] or [MP3].

2 Select the options.
When [DSS] is selected:
[**DSS Pro QP**] [**DSS Pro SP**]:
The recorded file will be DS2 format.

When [PCM] is selected:
[**22.05kHz Stereo**] [**22.05kHz Mono**]*:
The recorded file will be WAV format.

When [MP3] is selected:
[**128kbps Stereo**] [**64kbps Mono**]*:
The recorded file will be MP3 format.

* Mono recording
• If you use the ODMS software, you can select [**DSS SP**].

VCVA

The VCVA feature extends recording time and conserves memory by stopping recording during silent periods, which helps the playback to be more efficient. When the microphone senses that sounds have reached a preset threshold volume level, the built-in Variable Control Voice Actuator (VCVA) starts recording automatically, and stops when the volume drops below the threshold level.

1 Select [On].

2 Move the slide switch to the REC (●) position to start recording.
• When the sound volume is lower than the preset actuation sound level, recording automatically stops after 1 second approximately, and [**Standby**] flashes on the display. The record indicator light turns on when recording starts and flashes when recording pauses.
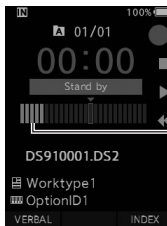
Level meter (varies according to the sound volume being recorded)

Adjust the start/stop actuation level:

While the recorder is in recording mode, press the ▶▶ or ◀◀ button to adjust the actuation level.

• The VCVA level can be set to any of 15 different values.
• The higher the value is, the more sensitive the recorder can react to sounds. At the highest value, even the faintest sound will activate recording.
• The VCVA actuation level can be adjusted according to the ambient (background) noise.
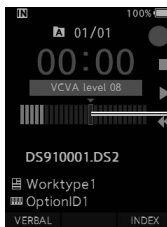
Start level (moves to the right/left according to the set level)

• The start/stop actuation level also varies depending on the selected microphone sensitivity mode (☞ P.33).
• To ensure successful recordings, prior testing and adjustment of the start/stop actuation level is recommended.

Menu items

🖥 LCD/ Sound menu

Backlight

By default, the display will remain lit for about 10 seconds when a button on the recorder is pressed.

1 Select [Lighting time], [Dim light time] or [Brightness].

2 Select the options.
When [Lighting time] is selected:
[**5 seconds**] [**10 seconds**] [**30 seconds**]
[**1 minute**] [**2 minutes**] [**5 minutes**]:
Set the backlight duration.

When [Dim light time] is selected:
[**30 seconds**] [**1 minute**] [**2 minutes**]
[**5 minutes**] [**Always On**]:
Set the time after which the backlight dims.

When [Brightness] is selected:
[**01**] [**02**] [**03**]:
Sets the brightness of the backlight when lit.

LED

You can set it so the record indicator light does not turn on.
[**On**]:
LED light will be set.
[**Off**]:
LED light will be canceled.

Beep

When the Beep is set to other than [**Off**], the recorder will beep in case of error.
[**Volume 3**] [**Volume 2**] [**Volume 1**]:
Beep is enabled. The higher the number is, the louder the volume.
[**Off**]:
Beep is disabled.

Language

You can set the language for the recorder's user interface.
[**Čeština**] [**Dansk**] [**Deutsch**] [**English**] [**Español**]
[**Français**] [**Italiano**] [**Nederlands**] [**Polski**]
[**Русский**] [**Svenska**]

🍴 Device menu

Device Information

The currently set recording mode, microphone sensitivity, and VCVA are indicated by icons, and you can also check [**Mic mode**], [**Internal memory**], [**SD card**] (when a SD card is inserted), [**Model**], [**Version**], and [**Serial No.**].

Memory select

When there is a SD card (sold separately) in the voice recorder, you can select whether to record on the internal memory or on the SD card.
• The recording media ([**IN**] or [**SD**]) will appear on the display.

Menu items

Cue/ Rev

The playback sound of Cue and Review operation and Cue and Review speed can be set.

1 Select [Sound] or [Speed].

[**Sound**]:
Set the playback sound of Cue and Review to On or Off.

[**Speed**]:
Set the Cue and Review speed.

2 Select the options.

When [Sound] is selected:

[**On**]:
Activate the playback sound of Cue and Review.

[**Off**]:
Disables this function.

When [Speed] is selected:

You can adjust the Cue and Review speed level from [**Speed 1**] to [**Speed 5**].

• Cue and Review speed level becomes faster as the numerical value becomes larger.

Rev skip

This function reverse skips (rewinds) the file being played back for a set amount of time and it is a convenient way to move the playback position or repeat playing a short phrase.

[**1 second**] [**2 seconds**] [**5 seconds**]
Rewinds the set amount of time and starts playback.

Power save

By default, the recorder will enter into Power Save mode if not used for more than 10 minutes.

[**5 minutes**] [**10 minutes**] [**30 minutes**] [**1 hour**]:
Set the length of time before the recorder will enter into Power Save mode.

[**Off**]:
Disables this function.

• If any button is pressed, time count will restart.

Time & date

Setting the time and date beforehand enables easier file management.
For details, see "**Setting time and date [Time & date]**" (☞ P.14).

USB class

You can set the USB class of this recorder with a USB connection to [**Composite**] or [**Storage Class**].

[**Composite**]:
In the 3 classes of Storage, USB audio and human interface device, USB connection is possible. While connected via USB in [**Composite**], the recorder can be used as the USB speaker and the USB microphone in addition to storage class.

[**Storage Class**]:
USB connection is possible in only storage class.

Reset settings

To reset the menu settings to their default values use [**Reset settings**] under [**Device menu**], or use the ODMS and DSS Player software.

Format

Memory cards that have been used in devices manufactured by other companies, or memory cards that are not recognized by the recorder, must be formatted before they can be used with the recorder.

• Formatting the memory card will erase all the stored data, including locked files.

For details, see "**Formatting the memory card [Format]**" (☞ P.39).

Menu items

Editing the Worktype information

1 **Select the file for which you want to edit the Worktype information (☞ P.16).**

2 **Select [Worktype] at the [File menu] screen, then press the OK/MENU or ▶▶| button.**
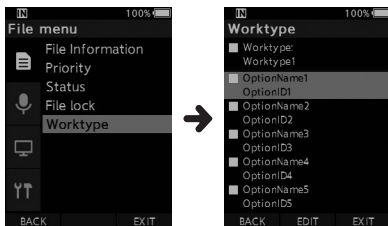
3 **Press the F2 (EDIT) button.**

4 **Press the + or – button to select [Type Worktype] or [Select from Worktype list], then press the OK/MENU or ▶▶| button.**
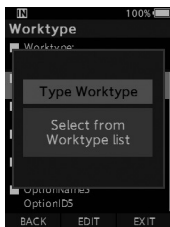
[**Type Worktype**]:
This will take you to the Worktype information screen and allow you to modify the Worktype information that has been registered for the file.

[**Select from Worktype list**]:
You can re-select Worktype from the Worktype list.

① Press the **+** or **–** button to select the Worktype.
② Press the **OK/MENU** button.

5 **Press the + or – button on the Worktype information screen to select the Option Item, then press the OK/MENU or ▶▶| button.**

- The Option Item name input screen will be displayed.
- When inputting or editing an Option Item name, only characters recognized by the ODMS software can be used.
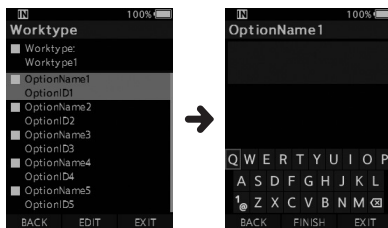
Worktype information screen   **Option Item name input screen**

6 **Entering characters.**
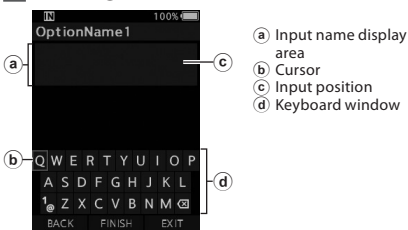
ⓐ Input name display area
ⓑ Cursor
ⓒ Input position
ⓓ Keyboard window

● **Character selection:**
+, −, |◄◄, ►►| button: Use these buttons to select the character you want to input on the Keyboard window.

● **Character confirmation:**
OK/MENU button: Use this button to confirm your selection.

● **Character deletion:**
ERASE button: Use this button to delete a character.

● **Moving the entry column:**
When pressing the **+** button if the cursor is on top of the Keyboard window, the cursor will disappear. An Input position within the input name display area will change from flashing to lighting.

►►| button: Each time the button is pressed, the input position moves one space to the right. The Input position can be moved up to the space next (right) to the last character.

|◄◄ button: Each time the button is pressed, the input position moves one space to the left. The Input position can be moved up to the first character.

− button: The Input position changes from lighting to flashing. The cursor is lit on the "0" string within the Keyboard window, and makes character selection available.

Entry is performed by insert entry. When the character in the Input position has already been finalized, the character after the cursor will move one column to the right.

● **Maximum entered character count:**
The Option item name can be entered up to the number of characters specified below. Preset default values can also be set for the option items to simplify data entry process.
Option item name: 20 characters

● **Canceling the entered contents:**
Press the F1 (BACK) button, and select [Yes], then press the OK/MENU button when inputting characters: This will delete the entered content for the selected item and return you to the Worktype information screen.

Press the F3 (EXIT) button, and select [Yes], then press the OK/MENU button when inputting characters: This will delete the entered content for the selected item and return the recorder to stop mode.

7 Press the F2 (FINISH) button.
- The recorder will return to the Worktype information screen.
- When you create a new file and input a Worktype, press the **F2** (**FINISH**) button again in the File information screen to get entered into the stop state in the New File.

Formatting the memory card [Format]

Memory cards that have been used in devices manufactured by other companies, or memory cards that are not recognized by the recorder, must be formatted before they can be used with the recorder.

1 **Select [Format] at the [Device menu] screen.**

IN	100%
Device menu	
📄	Device Information
	Memory select
	Cue/ Rev
🎤	Rev skip
	Power save
🖥	Time & date
	USB class
	Reset settings
🎚	Format
BACK	EXIT

2 **Press the OK/MENU or ▶▶| button.**

IN	100%
Format	
Internal memory	
SD card	
BACK	EXIT
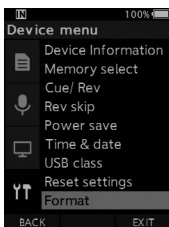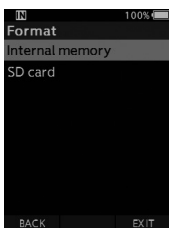
3 **Press the + or – button to select [SD card] option.**
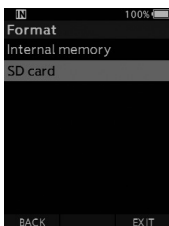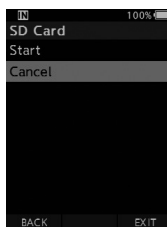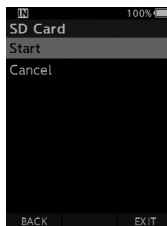
IN	100%
Format	
Internal memory	
SD card	
BACK	EXIT

4 **Press the OK/MENU or ▶▶| button.**

IN	100%
SD Card	
Start	
Cancel	
BACK	EXIT

5 **Press the + button to select [Start] option.**

IN	100%
SD Card	
Start	
Cancel	
BACK	EXIT

6 **Press the OK/MENU button.**

IN	100%
SD Card	
Start	
All data will be erased	
BACK	EXIT

➜

IN	100%
SD Card	
Are you sure?	
Start	
Cancel	
BACK	EXIT
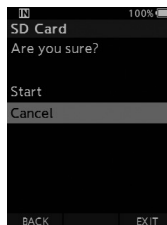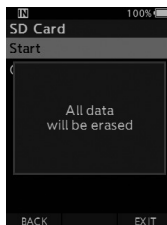
Formatting the memory card [Format]

7 **Press the + button again to select [Start] option.**
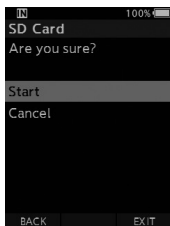
8 **Press the OK/MENU button again to initiate the formatting process.**

- [**Formatting!**] displays when formatting ends.

NOTE

- The time required to format a memory card varies according to the capacity of the memory card to be formatted.
  Do not interrupt the formatting process with the following actions. Doing so may damage the data or the memory card.
  - Remove the memory card.
  - Remove the battery.
- Formatting the memory card will erase all the stored data, including locked files.
- When an unformatted memory card is inserted, the format menu will be displayed automatically.
- Locked memory cards cannot be initialized.
- Memory cards will be formatted using quick format. Formatting the memory card will reset the information in file management, but the data inside the memory card may not be deleted completely. Be careful of data leakage when disposing or handing of the memory card. We recommend that you physically destroy the memory card when disposing of it.

Customizing the recorder

You can customize various settings of the recorder using the ODMS Cloud and ODMS software (☞ P.43).
For more information, see the online help for ODMS Cloud.

Common settings

You can set the default values for each of the recorder's menu items.

Administrative settings

❏ General

Accessibility:

- You can disable the 🔟 (erase), **OK/MENU**, and ◀◀ (rewind) buttons.

Splash Message:

- You can set the contents that appear in the message which is displayed during start-up.

Alarm:

- You can set an alarm to not sound for errors, button operations, etc.

❏ Display

Information Area in Rec Mode:

- You can split the information display area for file display into an upper area and lower area, and set the Blank, Author ID, Worktype, and Option Item display items.

LED Color:

- You can set the LED lighting colors for when new, overwrite, append, and insert recording and for when playback to any of off, red, green, blue, orange, and yellow.

❏ Device Security

You can customize / adjust / set / configure various settings related to the recorder's device lock function.

PIN Code:

- You can set the password for startup.

Device Lock:

- Device lock function Enable/ Disable.
- Settings related to the timing for setting the device lock.
- Changing the number of allowable input errors (mismatches) for the password.

❏ Data Loss Prevention

Select read-only mode.

❏ Author List

You can customize / adjust / set / configure settings related to the Author.

Author List:

- Register multiple Author IDs (up to max. 10 items).
- Set the priority level for each Author ID.
- Select the Author ID you want to be used by default.

Author Selection:

- Choose to Enable/ Disable the Author ID selection at the recorder start-up.
- Display only the files of the selected author on the recorder.

❏ Worktype List

You can customize / adjust / set / configure settings related to the Worktype.

Worktype List:

- Register Worktypes (up to max. 20 items).
- Set the option items for each Worktype (up to max.10 options).
- Select the Worktype you want to be used by default.

Worktype Selection:

- Choose to activate/deactivate the Worktype selection when the recorder is in New mode.

Customizing the recorder

❏ Device Folders

You can customize / adjust / set / configure various settings related to the recorder's folders.

Enabled:

• Change the number of usable folders.

Folder Name:

• Change the folder name.

Worktype:

• Set the folder's Worktype.

AutoLock:

• Set the Auto Lock on a file to Yes/No.

Encryption:

• Select a folder's Encryption level.
  It is possible to set the Encryption level to [**High**] (256 bit), [**Standard**] (128 bit) or [**No**] (deactivates the function).

Password:

• Set the folder's Encryption Password.

Speech Recognition:

• You can specify whether or not to automatically add files downloaded from the recorder to the speech recognition queue.

❏ Recording

You can customize / adjust / set / configure various settings related to the recorder's Dictation files.

DSS Format:

• Select the recording format (DSS Classic/DSS Pro).

Record function:

• Select the recording mode (Overwrite/Append/Insert).

File download:

• Select the files you want to be transferred to the PC (All files/Finished files).

❏ Programmable Buttons

You can change the allocated functions for the Programmable Smart Buttons (**F1**, **F2**, **F3** buttons), the **NEW** button, and the Slide Switch.

New and Slide Switch functions:

• Select a combination of functions.

Programmable Buttons:

• Select the function to associate to the Programmable buttons (**F1**, **F2**, **F3** buttons) for each mode (New, Stop, Recording, Playback mode).

❏ Hands Free

You can customize / adjust / set / configure settings related to the Hands-Free operation with the Foot Switch (optional).

Managing files on your PC

OM Dictation Management System on the Cloud (ODMS Cloud)

ODMS Cloud is a cloud-based dictation workflow system that allows you to share dictation files between authors and transcriptionists anytime, anywhere. Your files are now stored on the cloud, which means a dedicated server is no longer required, and setup is easy to get started.
Designing your dictation workflow can be done through a simple interface which allows you to realize an efficient workflow.

This package comes with a subscription license that can be used for one year. Please register an account from the registration site and activate your user license. You can find the URL of registration site and the license code on the ODMS Cloud license card.

For information on the ODMS Cloud usage and features, refer to the online help. The Online help is available from the browser application after you complete your account registration.

Connecting to your PC

Connecting to your PC using the USB cable

1 Boot the PC.

2 Connect the USB cable to the USB port of the PC.
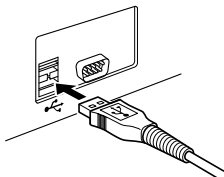
3 Connect the USB cable to the connecting terminal on the bottom of the recorder.
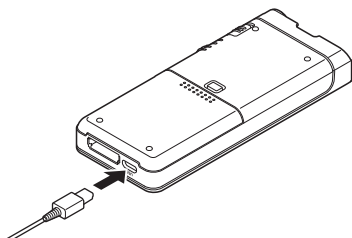
- [**Remote (Composite)**] is displayed on the recorder if the USB cable is connected.

After connecting the recorder to your PC, it will be powered through the USB cable.
When connected to a PC, the memory card will be recognized by the PC as separate removable disk drives.

NOTE

- NEVER remove the memory card or disconnect the USB cable while the record indicator light is flashing. If you do, the data will be destroyed.

- Some PC's may not supply sufficient power and the recorder fails to connect. Refer to your PC user's manual regarding the USB port on your PC.
- Do not connect the recorder to a PC by using a USB hub. Make sure to connect to a USB port on your PC.
- Make sure to push the cable connector all the way in. Otherwise, the recorder may not operate properly.

Connecting to your PC using the docking station

Some kits do not include a docking station and AC adapter.

Place the recorder in the docking station

1 Connect the USB cable to the USB port of the PC.

2 Connect the USB cable to the docking station as shown in the illustration.

3 Set the recorder in the docking station.
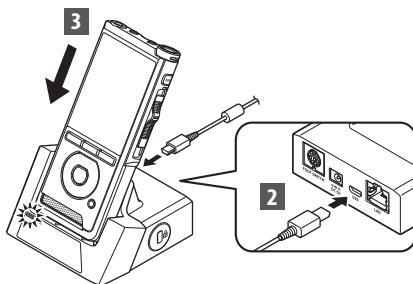
- [**Remote (Composite)**] is displayed on the recorder if the USB cable is connected.
- If the AC adapter is connected as well, power will be supplied from the AC adapter.

Disconnecting from your PC

Windows

1 Click [📝] on the task bar located at the lower-right corner of the screen. Click [Eject DIGITAL VOICE RECORDER].
- The drive letter will differ depending on the PC being used.

2 Confirm that the record indicator light turns off before disconnecting the USB cable.

Macintosh

1 Drag and drop the recorder's drive icon for this recorder displayed on the desktop to the Recycle Bin icon.

2 Confirm that the record indicator light turns off before disconnecting the USB cable.
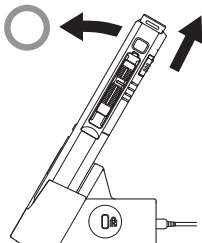
NOTE

- NEVER remove the memory card or disconnect the USB cable while the record indicator light is flashing. If you do, the data will be destroyed.
- Never touch the contact points at the bottom of the docking station, as this may cause a bad connection.
- With a PC connected, the recorder cannot be operated with the Foot Switch. When connecting the recorder to a PC via the docking station, remove the Foot Switch.

Other information

Device care

● **Exterior**
Wipe gently with a soft cloth. If the device is very dirty, soak the cloth in mild soapy water and wring well. Wipe the device with the damp cloth and then wipe it with a dry cloth.

● **Display**
Wipe gently with a soft cloth.

Using alcohol disinfectant solution

NOTE

- Make sure that your device is turned OFF.
- Do not use other than ethanol for disinfection (76.9 to 81.4 v/v%) and isopropanol for disinfection (70 v/v%).
- The docking station cannot be cleaned with alcohol disinfectant solution.

1 **Soak a soft cloth in the disinfectant solution and then wring the cloth to prevent dripping.**
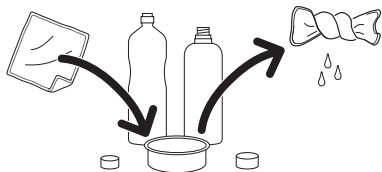
2 **Wipe the device gently.**
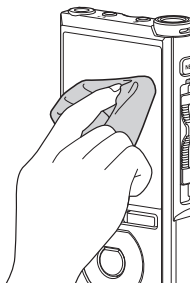
3 **Wipe the device well with a soft dry cloth so that no solution remains.**

⚠ Caution

- Do not use disinfectant solution to clean the LED and each sensor.
- Do not rub the device strongly when using disinfectant solution. The paint or print may peel off.
- Do not spray disinfectant solution directly onto the device. The device does not have a waterproof design so solution may enter inside the device and affect the electronic parts.

Alarm message list

Message	Explanation	Action
[Battery low]	The remaining battery power is low.	Charge the battery (☞ P.9).
[Power supply error Remove power plug]	Voltage outside of the allowable limit has been detected.	Use the dedicated AC Adapter (☞ P.11).
[File locked]	Editing or deleting the file is not possible.	Unlock the file (☞ P.33).
[Further marking not possible]	The maximum number of Index marks has been reached (max 32 Index marks per file). If the recorder has been set to DSS Classic mode, index marks are limited to a maximum of 16 for each file.	Erase index marks that are no longer required (☞ P.30).
[Verbal Comment full]	The maximum number of Verbal comments has been reached (max 32 Verbal comments per file).	Erase unnecessary Verbal comments (☞ P.29).
[Memory full]	No remaining memory.	Erase unnecessary files or insert another memory card (☞ P.13, P.24).
[Folder full]	The maximum number of files has been reached (max 200 files per folder).	Erase unnecessary files (☞ P.24).
[Erasing error]	An error occurred while erasing.	Erase once again. When an erase error occurs, format the memory card (☞ P.39).
[Card error]	The memory card was not recognized correctly.	Remove and insert the memory card again (☞ P.13).
[Format error]	A formatting problem occurred.	Format again (☞ P.39).
[Memory error]	An internal memory error occurred.	Contact our Customer Support Center.
[Insert SD card]	The recorder cannot find the memory card.	Insert a memory card (☞ P.13).
[Switch position error]	The position of the slide switch is incorrect.	Align the slide switch with the correct position (☞ P.16).
[Can't create the system file. Erase unnecessary file via PC.]	The management file cannot be created due to insufficient space on the memory card.	Connect the recorder to a computer and delete unnecessary files.

Troubleshooting

Symptom	Probable cause	Action
Nothing appears on the display.	The remaining battery power is low.	Charge the battery (☞ P.9).
	The recorder is turned off.	Turn the power on (☞ P.12).
	The recorder is currently in Power Save mode.	Press any button.
Unable to record.	The memory card does not have enough memory.	Erase unnecessary files or insert another memory card (☞ P.13, P.24).
	The memory card is unformatted.	Format the memory card (☞ P.39).
	The maximum number of files has been reached.	Change to any other folder (☞ P.16).
	The file is locked.	Unlock the file from the file menu (☞ P.33).
	The memory card is locked.	Unlock the memory card.
No playback tone heard.	The earphone is connected.	Unplug the earphones to use the internal speaker.
	The volume level is set to [**00**].	Adjust the volume level (☞ P.22).
Unable to erase.	The file is locked.	Unlock the file from the file menu (☞ P.33).
	The memory card is locked.	Unlock the memory card.
Noise heard during playback.	Objects brushed against the voice recorder while recording.	———
	The recorder was placed near a mobile phone or fluorescent lamp while recording or during playback.	Avoid using the recorder near cell phones or fluorescent lamps.
Recording level too low.	The microphone sensitivity is too low.	Set the microphone sensitivity to the conference mode and try again (☞ P.33).

Troubleshooting

Symptom	Probable cause	Action
Unable to set index marks.	The maximum number of index marks has been reached.	Erase unnecessary index marks (☞ P.30).
	The file is locked.	Unlock the file from the file menu (☞ P.33).
	The memory card is locked.	Unlock the memory card.
Unable to set verbal comments.	The maximum number of verbal comments has been reached.	Erase unnecessary verbal comments (☞ P.29).
Cannot find the recorded file.	Wrong recording media or folder.	Switch to the correct recording media or folder (☞ P.16, P.17, P.35).
Cannot connect to a PC.	Sometimes a connection cannot be made with some PCs.	You need to change the PC's USB settings. See ODMS software online help.

Accessories (optional)

● **External microphone: ME15**
A lavalier omni-directional microphone that clips to clothing. Used to record your own voice or people near you.

● **PC transcription kit: AS-9100**
The AS-9100 transcription kit provides you with a Foot Switch, a headset and ODMS software for easy transcription of DSS recordings.
In order to use the AS-9100 transcription kit, the docking station (CR21) will be necessary (optional).

● **Foot switch: RS31H**
Connect to the USB docking station with DS-9100 for hands-free transcription.

● **Telephone pickup: TP8**
Earphone type microphone can be plugged into your ear while phoning. The voice or conversation over the phone can be clearly recorded.

● **Lithium ion battery: LI-92B**
This lithium ion rechargeable battery is manufactured by our company. It is best paired with the UC-92 battery charger.

● **AC adapter (5V): F-5AC**
In order to charge the battery, the docking station (CR21) will be necessary (optional).

● **Docking station: CR21 & CR15**
CR21 supports DS series devices.

Copyright and trademark information

- The contents of this document may be changed in the future without advanced notice. Contact our Customer Support Center for the latest information relating to product names and model numbers.

- The illustration of the screen and the recorder shown in this manual may differ from the actual product. The utmost care has been taken to ensure the integrity of this document, but if you find a questionable item, error or omission, please contact our Customer Support Center.

- Any liability for passive damages or damage of any kind occurred due to data loss incurred by a defect of the product, third-party repairs performed at any facility not operated or authorized by our company, or any other reason is excluded.

Trademarks and registered trademarks

- SDHC Logo is a trademark of SD-3C LLC.
- This product incorporates an MP3 audio codec developed by Institute of Super Compression Technologies, Inc.

All other brand or product names in this manual are the trademarks or registered trademarks of their respective owners.

Safety precautions

Before using your new recorder, read this manual carefully to ensure that you know how to operate it safely and correctly. Keep this manual in an easily accessible location for future reference.

The warning symbols indicate important safety related information. To protect yourself and others from personal injury or damage to property, it is essential that you always read the warnings and information provided.

⚠ Danger

If the product is used without observing the information given under this symbol, serious injury or death may result.

⚠ Warning

If the product is used without observing the information given under this symbol, injury or death may result.

⚠ Caution

If the product is used without observing the information given under this symbol, minor personal injury, damage to the equipment, or loss of valuable data may result.

Convention used in this manual

- In this manual, SD and SDHC cards are generally referred to as a "memory card".
- The word "ODMS" is used to refer to the OM Dictation Management System in Windows environment.

Caution for usage environment

- To protect the high-precision technology contained in this product, never leave the recorder in the places listed below, no matter if in use or storage:
- Places where temperatures and/ or humidity are high or go through extreme changes. Direct sunlight, beaches, locked cars, or near other heat sources (stove, radiator, etc.) or humidifiers.
- Near flammable items or explosives.
- In wet places, such as bathrooms or in the rain.
- In places prone to strong vibrations.
- Never drop the recorder or subject it to severe shocks or vibrations.
- The recorder may malfunction if it is used in a location where it is subject to a magnetic/ electromagnetic field, radio waves, or high voltage, such as near a TV set, microwave, video game, loud speakers, large monitor unit, TV/radio tower, or transmission towers. In such cases, turn the recorder off and on again before further operation.
- Avoid recording or playing back near cellular phones or other wireless equipment, as they may cause interference and noise. If you experience noise, move to another place, or move the recorder further away from such equipment.
- Do not use organic solvents such as alcohol and lacquer thinner to clean the unit.

Safety precautions

Warning regarding data loss

- Recorded content in memory may be destroyed or erased by operating mistakes, unit malfunction, or during repair work. It is recommended to back up and save important content to other media such as a computer hard disk.
- Any liability for passive damages or damage of any kind occurred due to data loss incurred by a defect of the product, third-party repairs performed at any facility not operated or authorized by our company, or any other reason is excluded from our liability.

Handling the recorder

⚠ Warning

- Keep the recorder out of the reach of children and infants to prevent the following dangerous situation that could cause serious injury:
    1. Accidentally swallowing the battery, memory cards or other small parts.
    2. Accidentally being injured by the moving parts of the recorder.
- Do not disassemble, repair or modify the unit yourself.
- Use SD and SDHC memory cards only. Never use other types of memory cards. If you accidentally insert another type of memory card into the recorder, contact an authorized distributor or service center. Do not try to remove the memory card by force.
- Do not operate the unit while operating a vehicle.

⚠ Caution

- Stop using the recorder immediately if you notice any unusual odors, noise, or smoke around it.
- Never remove the battery with bare hands, which may cause a fire or burn your hands.
- Do not leave the recorder in places where it may be subject to extremely high temperatures. Doing so may cause parts to deteriorate and, in some circumstances, cause the recorder to catch fire. Do not use the charger or AC adapter if it is covered. This could cause overheating, resulting in fire.
- Handle the recorder with care to avoid getting a low-temperature burn.
- When the recorder contains metal parts, overheating can result in a low-temperature burn. Pay attention to the following:
- When used for a long period, the recorder will get hot. If you hold on to the recorder in this state, a low-temperature burn may be caused.
- In places subject to extremely cold temperatures, the temperature of the recorder's body may be lower than the environmental temperature. If possible, wear gloves when handling the recorder in cold temperatures.

Safety precautions

Battery handling precautions

⚠ Danger

- The recorder uses our special lithium-ion battery. Charge the battery with the specified AC adapter or charger. Do not use any other AC adapters or chargers.
- The battery should never be exposed to flame, heated, short-circuited or disassembled.
- Never heat or incinerate battery.
- Take precautions when carrying or storing batteries to prevent them from coming into contact with any metal objects such as jewelry, pins, fasteners, etc.
- To prevent causing battery leaks or damaging their terminals, carefully follow all instructions regarding the use of batteries. Never attempt to disassemble a battery or modify it in any way, solder, etc.
- If battery fluid gets into your eyes, flush your eyes immediately with clear, cold running water and seek medical attention immediately.

⚠ Warning

- Keep batteries dry at all times.
- If rechargeable batteries have not been recharged within the specified time, stop charging them and do not use them.
- Do not use a battery if it is cracked or broken.
- Never subject batteries to strong shocks or continuous vibration.
- If a battery leaks, becomes discolored or deformed, or becomes abnormal in any other way during operation, stop using the recorder.

- If a battery leaks fluid onto your clothing or skin, remove the clothing and flush the affected area with clean, running cold water immediately. If the fluid burns your skin, seek medical attention immediately.
- Keep batteries out of the reach of children.
- If you notice anything unusual when using this product such as abnormal noise, heat, smoke, or a burning odor:
  1. Remove the battery immediately while being careful not to burn yourself, and;
  2. Call your dealer or our local representative for service.
- Do not use the USB power supply via the car cigarette lighter socket or the self-modified power supply. It may cause overheating, fire, electric shock or malfunctions.

⚠ Caution

- The bundled/included rechargeable battery is exclusively for use with our digital voice recorder.
- There is a risk of explosion if the battery is replaced with the incorrect battery type.
- Dispose of the used battery following the instructions.
- Please recycle batteries to help save our planet's resources. When you throw away dead batteries, be sure to cover their terminals and always observe local laws and regulations.
- Always charge a rechargeable battery when using it for the first time, or if it has not been used for a long period.
- Rechargeable batteries have limited lifetime. When the operating time becomes shorter even if the rechargeable battery is fully charged, replace it with a new one.

Safety precautions

Docking station

⚠ Danger

- Never disconnect the AC adapter or power cord with a wet hand. This may cause electric shock or injury.
- Only use the dedicated AC adapter with the docking station. Using it in combination with other AC adapters may cause overheating, fire, or malfunction.

⚠ Warning

- Never disassemble, modify, or repair the docking station yourself. This may cause fire, electric shock, or injury.
- Never use the docking station in locations where it might come into contact with liquids. Getting the docking station wet may cause fire or electric shock.
- Do not drop the docking station or allow it to suffer extreme shocks. This may cause damage, or fire or electric shock.
- Do not touch the connector or insert the metal wires or similar object into any of the plugs. This may cause fire, or electric shock..

⚠ Caution

- Unplug the AC adapter or power cord from the docking station and AC outlet when not using for extended periods of time. If this precaution is not followed and the docking station is damaged then fire may occur.
- The docking station (CR21) is designed specifically for DS-9100.

AC adapter

⚠ Danger

- The supplied power cord is specific for the AC adapter only. Do not use the power cord for other product. Also, do not use a power cord of other product for the AC adapter.
- Be sure to use the AC adapter with the proper voltage (AC 100 - 240 V). Using it with other voltage levels may cause fire, explosion, overheating, electric shock or injury.
- For safety, be sure to unplug the AC adapter from the outlet before performing maintenance or cleaning. Also, never plug in or disconnect the power plug with a wet hand. This may cause electric shock or injury.
- Use our designated AC adapter only. Attempting to use other equipment could cause fire or electric shock due to heating, deformation, etc.

⚠ Warning

- Do not attempt to disassemble, repair or modify the AC adapter in any way.
- Keep foreign objects including water, metal, or flammable substances from getting inside the product.
- Do not moisten the AC adapter or touch it with a wet hand.
- Do not use the AC adapter in the vicinity of flammable gas (including gasoline, benzine and lacquer thinner).
- Always stop recording before connecting or disconnecting the power supply plug.

Safety precautions

- When the AC adapter is not in use, disconnect the power supply plug from the power outlet.
- Use only power supply of the correct voltage, as indicated on the adapter.

In case:

▶ ... the internal parts of the AC adapter are exposed because it has been dropped or otherwise damaged:

▶ ... the AC adapter is dropped in water, or if water, metal flammable substances or other foreign objects get inside it:

▶ ... you notice anything unusual when using the AC adapter such as abnormal noise, heat, smoke, or a burning odor:

1. do not touch any of the exposed parts;
2. immediately disconnect the power supply plug from the power outlet, and;
3. call your dealer or our local representative for servicing. Continued use of the AC adapter under these circumstances could result in electric shock, fire or injury.

⚠ Caution:

- Do not use the AC adapter if the power plug is damaged or the plug is not completely connected to the outlet. This may cause fire, overheating, electric shock, short circuit or damage.
- Unplug the AC Adapter from AC outlet when not using. If this precaution is not followed, fire, overheating or electric shock may occur.
- Make sure to hold the plug when removing the power plug from the outlet. Do not bend the cord excessively or put heavy objects on it. This may cause fire, overheating, electric shock or damage.

LCD monitor

- The LCD used for the monitor is made with high-precision technology. However, black spots or bright spots of light may appear on the LCD monitor. Due to its characteristics or the angle at which you are viewing the monitor, the spot may not be uniform in color and brightness. This is not a malfunction.

Memory card

⚠ Warning:

- Do not touch the memory card contacts. This may damage the memory card.
- Do not place the memory card in locations with static electricity.
- Store the memory card in a location that is out of the reach of children. In case of accidental ingestion, consult a physician immediately.
- Even when formatting or erasing are performed, only the file management information of the internal memory and/or memory card is updated and the recorded data is not completely erased. When disposing of the voice recorder or a memory card, be sure to destroy it, format and record silence until the recording time runs out, or perform a similar operation in order to prevent the leakage of personal information.

Specifications

General points

■ **Recording format**
DS2 (Digital Speech Standard Pro)
Linear PCM (Pulse Code Modulation)
MP3 (MPEG-1 Audio Layer3)

■ **Storage**
Internal NAND FLASH memory: 2 GB
SD/SDHC card: Supports 4 GB to 32 GB

* Some recording media memory capacity is used as a management area, so the actual usable capacity will always be slightly less than the displayed capacity.

■ **Sampling frequency**

DSS format

DSS Pro QP	16 kHz
DSS Pro SP	12 kHz

PCM format

22.05kHz Stereo	22.05 kHz
22.05kHz Mono	22.05 kHz

MP3 format

128kbps Stereo	44.1 kHz
64kbps Mono	44.1 kHz

■ **Display**
Size: 2.4 inches
Resolution: 240 × 320 pixels
Type: TFT color LCD

■ **Speaker**
Built-in 11 × 15 mm dynamic speaker

■ **Maximum working output**
320 mW (8 Ω speaker)

■ **Maximum headphone output**
≤ 150 mV (conforms to EN 50332-2)

■ **MIC jack**
ø 3.5 mm impedance 2 kΩ

■ **EAR jack**
ø 3.5 mm impedance 8 Ω or more

■ **Power source**
Standard voltage: 3.6 V
Battery: Lithium-ion battery (LI-92B)
External power supply: USB connection,
AC adapter (F-5AC) (DC5V)

■ **External dimensions**
120.8 mm × 49.8 mm × 18.6 mm
(Not including largest projection)

■ **Weight**
116.5 g (including battery)

■ **Operating temperature**
During operation: 0 °C to 42 °C (32 °F to 107.6 °F)
Charging: 5 °C to 35 °C (41 °F to 95 °F)

Overall frequency response

■ **When recording from microphonejack**

DSS format

DSS Pro QP	200 Hz to 7000 Hz
DSS Pro SP	200 Hz to 5000 Hz

PCM format

22.05kHz Stereo	50 Hz to 8000 Hz
22.05kHz Mono	50 Hz to 8000 Hz

MP3 format

128kbps Stereo	50 Hz to 15000 Hz
64kbps Mono	50 Hz to 13000 Hz

■ **When recording with built-in microphone**
50 Hz to 15000 Hz
(The upper and lower limit values of the frequency response depend on each recording format and microphone mode.)

Specifications

Guide to battery life

The following values are for reference only.

■ **During recording mode (Built-in microphone):**

DSS format

DSS Pro QP	Approx. 48 h
DSS Pro SP	Approx. 52 h

PCM format

22.05kHz Stereo	Approx. 54 h
22.05kHz Mono	Approx. 56 h

MP3 format

128kbps Stereo	Approx. 52 h
64kbps Mono	Approx. 55 h

■ **During playback mode (Earphone playback):**
All mode: Approx. 50 h

Guide to recording times

The following values are for reference only.

DSS format

Recording media		DSS Pro QP	DSS Pro SP
Internal memory 2 GB		163 h	334 h
SD card	32 GB	2350 h	4810 h
	16 GB	1170 h	2410 h
	8 GB	585 h	1200 h

PCM format

Recording media		22.05kHz Stereo	22.05kHz Mono
Internal memory 2 GB		6.5 h	13 h
SD card	32 GB	94 h	188 h
	16 GB	47 h	94 h
	8 GB	23.5 h	47 h

MP3 format

Recording media		128kbps Stereo	64kbps Mono
Internal memory 2 GB		36 h	72 h
SD card	32 GB	520 h	1040 h
	16 GB	260 h	520 h
	8 GB	130 h	260 h

• The above are the standard times, and the available recording time will vary depending on the card.
• Available recording time may be shorter if many short recordings are made.
• Total recording time of several files. The maximum recording time per file is 99 hours 59 minutes.

Specifications and design are subject to change without notice.
Battery life is measured by our company. It varies greatly according to the conditions of use.

5

Specifications

For customers in Europe

Professional dictation devices from us are distributed via specially trained and educated partners.
Therefore please contact your local Certified our Partner for Professional Audio Systems to get highly qualified support in your language.
Find your local partner with our Dealer Locator on our website.

For customers in North America

The DS-9100 is part of the our Professional Dictation System. Your certified professional dealer has been fully trained on the entire our Professional Dictation range, including dictation, transcription devices and software. For technical assistance and guidance relating to installation and set up, please contact your professional dealer from whom you purchased the system.

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