

DIGITAL VOICE RECORDER WS-100/WS-200S

EN INSTRUCTIONS

Thank you for purchasing an Olympus 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 recordings, we recommend that you test the record function and volume before use.

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For customers in North and South America

USA RFI

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

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

Canadian RFI

This digital apparatus does not exceed the Class B limits for radio noise emissions from digital apparatus as set out in the Radio Interference Regulations of the Canadian Department of Communications. Cet appareil numérique ne dépasse pas les limites de Catégorie B pour les émissions de bruit radio émanant d'appareils numériques, tel que prévu dans les Règlements sur l'Interférence Radio du Département Canadien des Communications.

For customers in Europe



"CE" mark indicates that this product complies with the European requirements for safety, health, environment and customer protection.

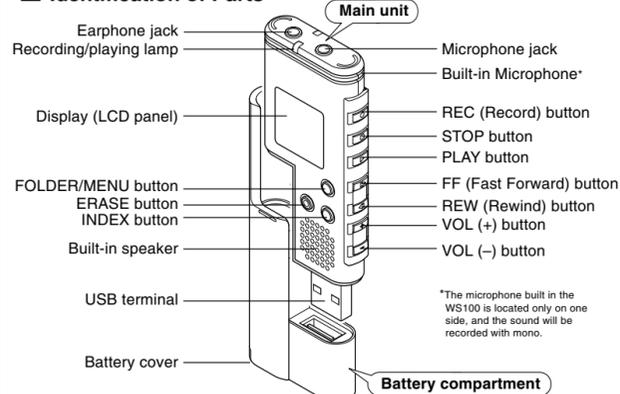


This symbol [crossed-out wheeled bin WEEE Annex IV] indicates separate collection of waste electrical and electronic equipment in the EU countries. Please do not throw the equipment into the domestic refuse. Please use the return and collection systems available in your country for the disposal of this product.

Applicable Product : WS-100/WS-200S

Getting Started

Identification of Parts

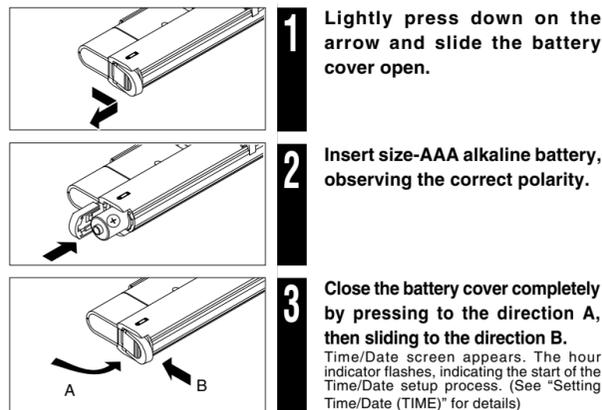


- The battery compartment can be detached from the main unit.
- The main unit can be connected to a PC USB port or a USB hub.

Note

Under no circumstances insert any other parts than the main unit into the battery compartment. This may result in battery leakage, overheating, fire or explosion.

Inserting a Battery



An optional Ni-MH Rechargeable battery (BR401) from Olympus can be used for the recorder.

Replacing the Battery

When appears on the display, replace the battery as soon as possible. Size-AAA alkaline battery is recommended. When the battery is depleted, appears on the display, and the recorder shuts off.

- When replacing the battery, make sure that you turn the POWER switch OFF before replacing them.
- If it takes longer than 15 minutes to replace the dead battery, you may have to reset the time when you load a fresh battery.

Power Supply

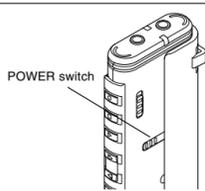
Power on... Turn the POWER switch ON.

If the POWER switch on the backside of this recorder is turned OFF, it is not possible to use any of the functions. Turn the POWER switch ON before operation.

Power off... Turn the POWER switch OFF.

Standby Mode and Display Shut Off

If the recorder is stopped for 5 minutes or longer during recording or playing, it goes into Standby (power-save) mode, and the display shuts off. To exit Standby mode and turn on the display, press any button.



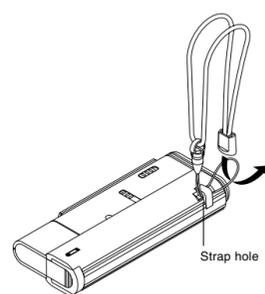
Hold

Setting the HOLD switch to the HOLD position. All operation buttons are disabled. This feature is useful when the recorder has to be carried in a handbag or pocket. Remember to reset the HOLD switch when using the recorder.

Notes

- The recorder functions as follows with the HOLD switch set to the HOLD position:
 - If the recorder is playing, the display goes dark when playback of the current file has completed.
 - If the recorder is recording, the display goes dark when the recorder stops recording automatically upon running out of free memory.

How to Use the Strap



Notes on the Folders

The recorder provides five folders, A, B, C, D and E. To change the folder selection, press the FOLDER button while the recorder is stopped. Each recorded file is stored in a folder. Using folders to classify files makes it convenient to find files you want to access later. Up to 199 messages can be recorded per folder.

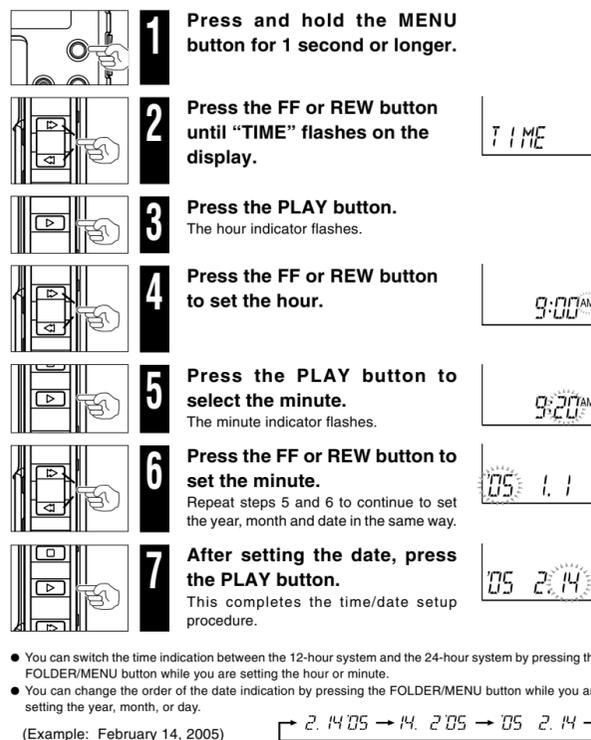
Current folder



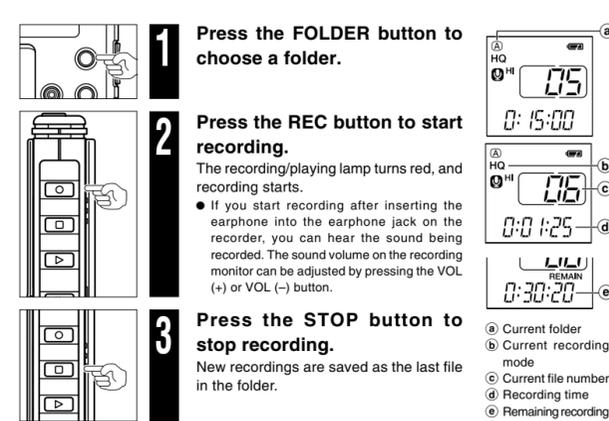
Setting Time/Date (TIME)

If you have set the time and date, information as to when a sound file was recorded is stored automatically with that file.

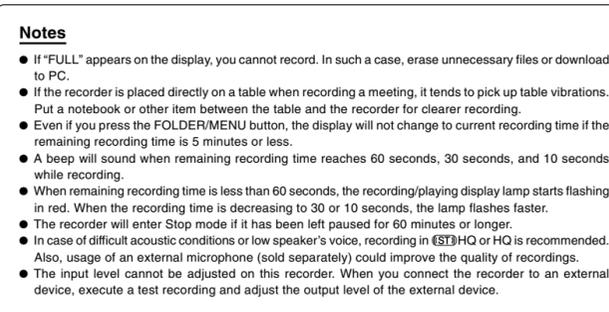
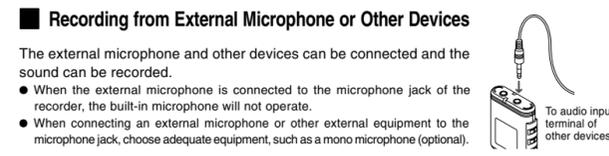
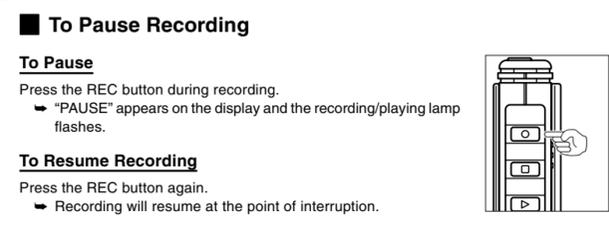
When using the recorder for the first time, or after the battery has been taken out for a long period of time, the hour indication will flash. In such a case, be sure to set the time and date by following steps 4 through 7 described below.



Recording



- Ⓐ Current folder
- Ⓑ Current recording mode
- Ⓒ Current file number
- Ⓓ Recording time
- Ⓔ Remaining recording time (REMAIN)

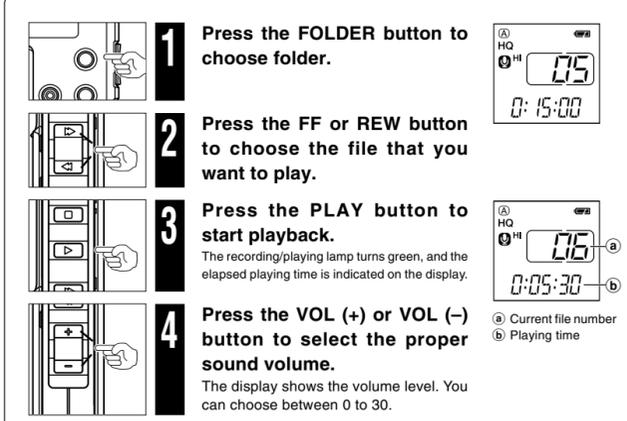


LCD Display Information

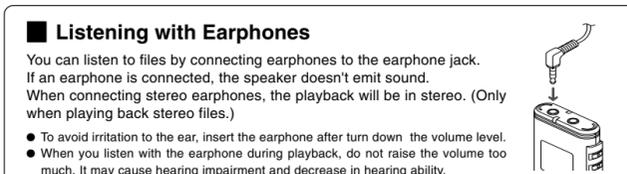
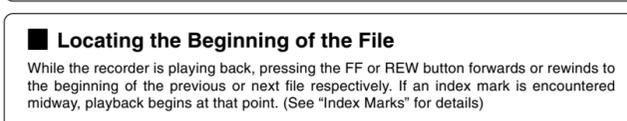
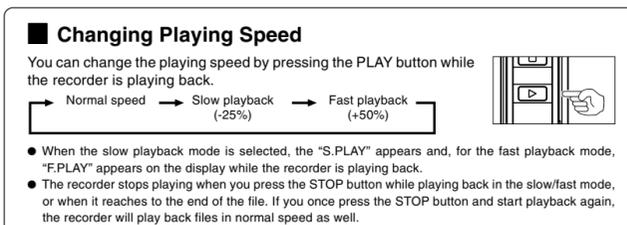
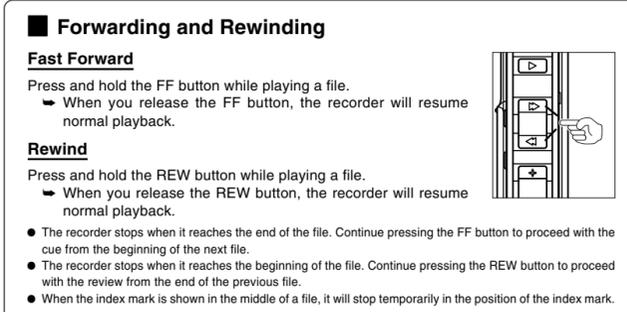
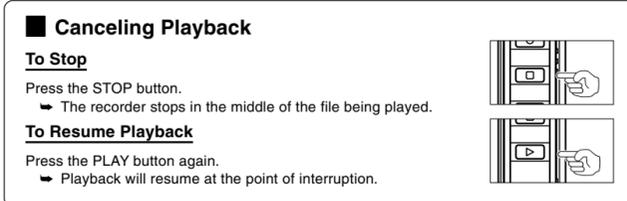
You can select an option for the display of the recorder. This help review and confirm different recorder settings and file information.

State of the recorder	Operation	Display
While in stop mode	Press and hold the STOP button	While holding the button down, the number of all files lights up and the remaining recording time and the remaining memory space are displayed by turns.
While in record mode	Press the FOLDER/MENU button	The display switches between current recording time and remaining recording time.
While in playback mode	Press the FOLDER/MENU button	Playing time → Remaining playing time → Recording date of the file → Recording time of the file → Playing time . . .

Playing Back



- Ⓐ Current file number
- Ⓑ Playing time



Erasing

You can easily erase unnecessary files. Sequential file numbers are reassigned automatically.

Erasing One File at a Time

1 Press the FOLDER button to choose a folder.

2 Press the FF or REW button to choose the file you want to erase.

3 Press the ERASE button for less than 3 seconds. The "ERASE" indicator flashes.

4 Press the ERASE button again. "DONE" blinks for two seconds and the deletion will be complete.



Erase All Files from a Folder

1 Press the FOLDER button to choose a folder.

2 Press and hold the ERASE button for 3 seconds or longer. The "ERASE" indicator flashes.

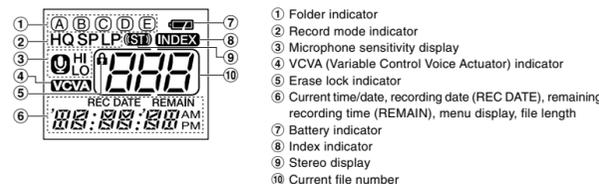
3 Press the ERASE button again. "DONE" blinks for two seconds and the deletion will be complete.



Notes

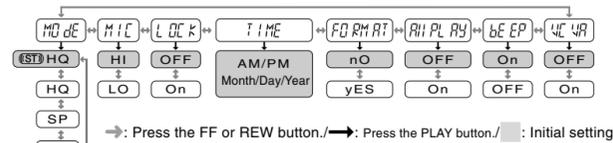
- An erased file cannot be restored.
- The file set to erase lock will not be erased.
- If operation is not executed for 8 seconds during the setting, it will return to the stop status.
- Completion of erasing may take several tens of seconds. Do not remove the battery or detach the battery compartment from the recorder during in that time. Otherwise data may be damaged.

Display (LCD panel)



- Folder indicator
- Record mode indicator
- Microphone sensitivity display
- VCVA (Variable Control Voice Actuator) indicator
- Erase lock indicator
- Current time/date, recording date (REC DATE), remaining recording time (REMAIN), menu display, file length
- Battery indicator
- Index indicator
- Stereo display
- Current file number

Menu List



- (ST)HQ is only available for the WS-200S.
- WS-200S is set to (ST)HQ by default.
- WS-100 is set to HQ by default.

Basic Operation of the Menu Mode

Using the menu function, you can change various settings according to your preference.

1 Press and hold the MENU button for 1 second or longer while the recorder is stopped.

2 Press the FF or REW button to select what you would like to set up.

3 Press the PLAY button to select the item to be set up.

4 Use the FF or REW button to change the setting.

5 Press the PLAY button to confirm the setting.

6 Press the STOP button to close the menu.

- The recorder will stop if you leave it idle for 3 minutes during a menu setup operation, when a selected item is not applied.
- If you press the STOP or REC button during a menu setup operation, the recorder will stop and apply the items that were set to that point.

Recording Modes (MODE)

The recording mode can be chosen from (ST)HQ (stereo high quality sound recording) and HQ (high quality sound recording), SP (standard recording), and LP (long-term recording).

In Menu mode selection... (ST)HQ, HQ, SP, LP

Model	(ST)HQ	HQ	SP	LP
WS-200S	Approx.4 hours 20 minutes	Approx.8 hours 50 minutes	Approx.17 hours 25 minutes	Approx.54 hours 50 minutes
WS-100	—	Approx.4 hours 20 minutes	Approx.8 hours 40 minutes	Approx.27 hours 20 minutes

- The recording time shown above is for one continuous file. The available recording time may be shorter than specified if several files are recorded. (Use the remaining time and recorded time only as references.)
- (ST)HQ is only available for the WS-200S.

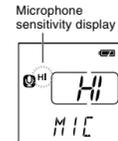
Microphone Sensitivity (MIC)

Microphone sensitivity is adjustable to meet your recording needs.

In Menu mode selection... HI, LO

HI: High-sensitivity mode that records sounds in all directions.
LO: Low-sensitivity mode suited for dictation.

- To ensure successful recording, make a test recording to choose appropriate microphone sensitivity before recording.
- If you choose "HI", we recommend setting the recording mode to (ST)HQ or HQ to best take advantage of the higher sensitivity.
- If you choose "HI", background noise may be high depending on the recording conditions.



Locking Files (LOCK)

Locking a file keeps important data from being accidentally erased. Locked files are not erased when you choose to erase all files from a folder.

In Menu mode selection... On, OFF

On: Locks the file and prevents it from being erased.
OFF: Unlocks the file and allows it to be erased.



Formatting the Recorder (FORMAT)

If you format the recorder, all function settings will return to their defaults. All files stored in the recorder will be deleted. If you have important files that you want to save, connect the recorder to a computer and transfer those files from the recorder to the computer before formatting the device.

- Press the MENU button.
- Press the FF or REW button to choose "FORMAT".
- When the PLAY button is pressed, "nO" is displayed.
- Press FF or REW to select "yES", and press the PLAY button. After "ARE yOU SURE" is displayed, "nO" will be displayed.
- Press FF or REW to select "yES", and press the PLAY button.

"DONE" displays when formatting ends.

- It may take up to several tens of seconds to finish the initialization. Do not remove the battery or detach the battery compartment from the recorder during that time. Otherwise data may be damaged.
- Never format the recorder from a PC.
- When the recorder is formatted, all the stored data, including locked files, are erased.

Continuous Playback (All PLAY)

This function allows you to listen to all your recordings of one folder in one go without any stop between the files.

In Menu mode selection... On, OFF

On: Continuous playback.
OFF: Returns to normal playback mode.

- After the last file in the folder plays, "END" appears on the screen and playback stops automatically.

System Sounds (bEEP)

The recorder beeps to alert you to button operations or warn you of errors. System sounds may be turned off.

In Menu mode selection... On, OFF

Using The Variable Control Voice Actuator (VCVA)

When the microphone senses that sounds have reached a preset volume, the built-in Variable Control Voice Actuator (VCVA) starts recording automatically, and stops it when the volume drops. Particularly helpful for extended recording, the VCVA not only conserves memory by turning off recording during silent periods, but also makes playback more efficient and convenient.

In Menu mode selection... On, OFF

- Using the FF and REW buttons, the VCVA level can be adjusted in 15 levels.
- The recording/playing lamp is lit during recording. When the recorder is in Standby mode, the recording/playing lamp flashes and "VCVA" flashes on the display.



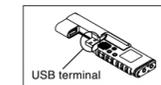
Connecting to Your PC

Apart from using this unit as a recorder, you can use it as an external memory for your computer, as a storage device.

- You can save the voice files recorded with this recorder on your PC as back-up.
- You can save images, text data, etc. on this recorder.
- The recorder will record in WMA (Windows Media Audio) format.
- The audio files recorded by this recorder can be played back on your computer using Windows Media Player. You can also transfer the WMA files downloaded with Windows Media Player to your recorder and enjoy them (excluding files with copyright protection).

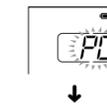
1 Before you detach the recorder, turn the POWER switch OFF and make sure that the display is turned off.

If you detach the recorder before the display is turned off, data may be damaged.



2 Connect the recorder's USB terminal to a PC USB port or USB hub.

While connecting to the PC, "PC" is displayed blinking. Once "PC LINK" is displayed, you can save or read the data. While transmitting data, "bUSy" is displayed, and the recording/playing lamp flashes.



3 Transfer the audio files to your computer.

Connect the recorder to your computer and launch Explorer. The recorder will be recognized as a removable disk. Each of the five folders is named as DSS_FLDA, B, C, D and E. The audio files are saved in these folders. All the audio files recorded by this recorder will be in .WMA format. (i.e. V_200001.WMA)

You can copy them to any folder on your computer. Double click the audio file, and Windows Media Player will be launched and start playing back. If you are using Windows 2000, Windows Media Player must be installed on the PC.

4 Before you detach the recorder from the PC, carry out "Remove Removable Media Device" and make sure that the display is turned off.

Using the recorder on your PC

PC: IBM PC/AT compatible PC
Operating System: Microsoft Windows Me/ 2000 Professional/XP Professional, Home Edition
USB port: One free port

The support service will not cover if your PC has been updated from Windows 95 or 98 to Windows Me/2000/XP. Any failure on a self-modified PC will not be covered under the operational warranty.

Notes

- NEVER disconnect the USB cable while the record/play indicator lamp is flashing. If you do, the data will be destroyed.
- Be sure to push the cable connector all the way in. Otherwise, the recorder may not operate properly.
- Refer to the user's manual for your PC regarding the USB port or USB hub on your PC.
- Use the supplied USB extension cable depending on situations.

Index Marks

Index marks can be placed in a file during recording or playback to provide and quick and easy way of keeping track of important sections in the file.

1 Press the INDEX button during recording (pause recording) or playback to set an index mark. An index number appears on the display.

Clearing an Index Mark

Press the ERASE button while the index number appears on the display.

- Up to 16 index marks can be set in a file.
- Sequential index marks numbers are reassigned automatically.
- Index marks cannot be set or cleared in a locked file.
- Index marks can be placed only on to the files recorded by this recorder or Olympus IC recorder.

General Precautions

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.

Warning regarding data loss

Recorded content in memory may be destroyed or erased by operating mistakes, unit malfunction, or during repair work. For important recorded content, we recommend you to write it down somewhere or make a back-up by downloading to a PC.

- Do not leave the recorder in hot, humid locations such as inside a closed automobile under direct sunlight or on the beach in the summer.
- Do not store the recorder in places exposed to excessive moisture or dust.
- Do not use organic solvents such as alcohol and lacquer thinner to clean the unit.
- Do not place the recorder on top of or near electric appliances such as TVs or refrigerators.
- Avoid sand or dirt. These can cause irreparable damage.
- Avoid strong vibrations or shocks.
- Do not disassemble, repair or modify the unit yourself.
- Do not operate the unit while operating a vehicle (such as a bicycle, motorcycle, or go-cart).
- Keep the unit out of the reach of children.

Batteries

Warning

- Under no circumstances insert any other parts than the main unit into the battery compartment. This may result in battery leakage, overheating, fire or explosion.
- Batteries should never be exposed to flame, heated, short-circuited or disassembled.
- Do not attempt to recharge alkaline, lithium or any other non-rechargeable batteries.
- Never use any battery with a torn or cracked outer cover.
- 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 batteries immediately while being careful not to burn yourself, and;
 - ② call your dealer or local Olympus representative for servicing.

Troubleshooting

Q1 Nothing happens when a button is pressed.

- A1
- The HOLD switch may be set to HOLD.
 - The batteries may be depleted.
 - The batteries may be inserted incorrectly.

Q2 No sound or quiet sound is heard from the speaker while playing back.

- A2
- The earphone plug may be plugged into the recorder.
 - The volume may be set to the minimum level.

Q3 Recording is not possible.

- A3
- By pressing the STOP button repeatedly while the recorder stops, check if the display shows:
- The remaining recording time in the selected folder may have reached "00:00".
 - The number of files is 199.
- Check if the display shows "FULL" by pressing the REC button.

Q4 The playback speed is too fast (slow).

- A4
- The recorder may be set to Fast (slow) Playback.

Specifications

Recording medium:	Built-in flash memory
Recording time:	WS-200S: 128 MB (ST)HQ mode: Approx. 4 hours 20 minutes HQ mode: Approx. 8 hours 50 minutes SP mode: Approx. 17 hours 25 minutes LP mode: Approx. 54 hours 50 minutes WS-100: 64 MB HQ mode: Approx. 4 hours 20 minutes SP mode: Approx. 8 hours 40 minutes LP mode: Approx. 27 hours 20 minutes Electret Condenser Microphone (monaural) Built-in ø 16 mm round dynamic speaker 100 mW ø 3.5 mm diameter, impedance 8 Ω Microphone jack: (WS-200S: stereo) (WS-100: monaural) ø 3.5 mm diameter, impedance 2 kΩ
Microphone:	Electret Condenser Microphone (monaural)
Speaker:	Built-in ø 16 mm round dynamic speaker
Maximum power:	100 mW
Earphone jack (stereo):	ø 3.5 mm diameter, impedance 8 Ω
Microphone jack:	ø 3.5 mm diameter, impedance 2 kΩ
(WS-200S: stereo) (WS-100: monaural)	
Power supply:	AAA (LR03 or R03) battery or Ni-MH rechargeable battery
Continuous battery use time (LP):	Alkaline battery: Approx. 13 hours Ni-MH rechargeable battery: Approx. 12 hours
Dimensions:	94 (L) × 40 (W) × 15.1 (T) mm
Weight:	WS-200S: 54 g (including battery) WS-100: 54 g (including battery)

* Battery life is measured by Olympus. It varies greatly according to the type of batteries used and the conditions of use.

* Your recorded contents are for your personal use or pleasure only. It is prohibited to record copyrighted material without permission of the copyright holders according to copyright law. * Specifications and design are subject to change without notice for improvement of performance.

Accessories (Optional)

Ni-MH Rechargeable Battery Charger: BU-400 (Europe only)
Ni-MH Rechargeable Battery: BR401
Connecting cord (Earphone jack ↔ Microphone jack): KA333
Stereo microphone: ME51S (for WS-200S)
Noise Cancellation monaural microphone: ME12
Electret condenser microphone: ME15
Telephone pickup: TP7