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.

OLYMPUS IMAGING CORP.

Tel. 03-3340-2111

OLYMPUS IMAGING AMERICA INC. Tel 1-800-622-6372

OLYMPUS IMAGING EUROPA GMBH

Tel. 040-237730 (Letters) Postfach 10 49 08, 20034 Hamburg, Germany

OLYMPUS UK LTD. 2-8 Honduras Street, London EC1Y OTX, United Kingdom

Tel 020-7253-2772

http://www.olvmpus.com

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 car 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 will not occur in a particular installation. ence 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 con-
- Consult the dealer or an experienced radio/TV technician for help

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 Commu-

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.

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"CE" mark indicates that this product complies with the European requirements for safety, health, envionment and customer protectior L'indication "CE" signfie que ce

produit est conforme aux exigences concernant la sécurité, la santé l'environnement et la protection du

Das "CE" Zeichen bestätigt die übereinstimmung mit den Europäi-schen Bestimmungen für Betriebssicherheit und Umweltschutz.

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La marca "CE" indica que este producto se encuentra ne conformidad con las exigencias europeas sobre seguridad, salud, medio ambiente y protección al

U1-BZ8099-01

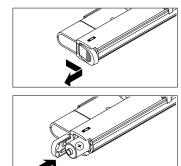
Getting Started

■ Identification of Parts Main unit Earphone jack Recording/playing lamp Microphone iack Built-in Microphone - REC (Record) button Display (LCD panel) -- STOP button PLAY button FF (Fast Forward) button FOLDER/MENU button . ERASE button -- REW (Rewind) button - VOL (+) button Built-in speaker VOL (-) button *The microphone built in the USB terminal -WS100 is located only on one side, and the sound will be recorded with mono. Battery cover Battery compartment • The battery compartment can be detached from the main unit

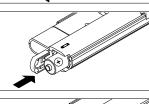
• The main unit can be connected to a PC USB port or a USB hub.

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

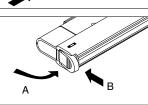
Inserting a Battery



Lightly press down on the arrow and slide the battery cover open.



Insert size-AAA alkaline battery. observing the correct polarity.



Close the battery cover completely by pressing to the direction A. then sliding to the direction B. ime/Date screen appears. The hour dicator flashes, indicating the start of the me/Date setup process. (See "Setting me/Date (TIME)" for details)

POWER switch

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

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 operat



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

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.

- The recorder functions as follows with the HOLD switch set to the HOLD - 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.



TIME

9:00

TE TITAM

11153 1. 1

[05 2] H)

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 log 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.



Press and hold the MENU button for 1 second or longer.



Press the FF or REW button until "TIME" flashes on the



Press the PLAY button. The hour indicator flashes.



Press the FF or REW button to set the hour.



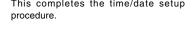
Press the PLAY button to select the minute. The minute indicator flashes

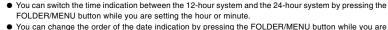


Press the FF or REW button to set the minute. Repeat steps 5 and 6 to continue to set the year, month and date in the same way.



After setting the date, press the PLAY button. This completes the time/date setup





setting the year, month, or day. **→** 2. 14°05 → 14. 2°05 → 105 2. 14 —

(Example: February 14, 2005)

Recording

Press the REC button to start

Press the FOLDER button to

choose a folder.

recording.

The recording/playing lamp turns red, and recording starts.

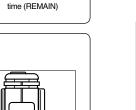
If you start recording after inserting the earphone into the earphone jack on the recorder, you can hear the sound being monitor can be adjusted by pressing the VOL (+) or VOL (-) button

Press the STOP button to stop recording. New recordings are saved as the last file

in the folder



© Current file number d Recording time Remaining recording



■ To Pause Recording

Press the REC button again.

To Pause

Press the REC button during recording.

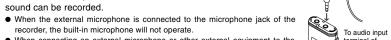
Recording will resume at the point of interruption.

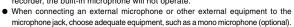
⇒ "PAUSE" appears on the display and the recording/playing lamp flashes. To Resume Recording



Recording from External Microphone or Other Devices

The external microphone and other devices can be connected and the





- If "FULL" appears on the display, you cannot record. In such a case, erase unnecessary files or download
- If the recorder is placed directly on a table when recording a meeting, it tends to pick up table vibrations. Put a notebook or other item between the table and the recorder for clearer recording.
- Even if you press the FOLDER/MENU button, the display will not change to current recording time if the remaining recording time is 5 minutes or less. A beep will sound when remaining recording time reaches 60 seconds, 30 seconds, and 10 seconds
- while recording. When remaining recording time is less than 60 seconds, the recording/playing display lamp starts flashing in red. When the recording time is decreasing to 30 or 10 seconds, the lamp flashes faster.
- The recorder will enter Stop mode if it has been left paused for 60 minutes or longer. • In case of difficult acoustic conditions or low speaker's voice, recording in (ST)) HQ or HQ is recommended.
- Also, usage of an external microphone (sold separately) could improve the quality of recordings • The input level cannot be adjusted on this recorder. When you connect the recorder to an external

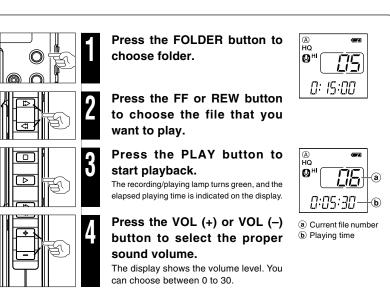
device, execute a test recording and adjust the output level of the external device

■ 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 \to Remaining playing time \to Recording date of the file \to Recording time of the file \to Playing time	

Playing Back



Canceling Playback

To Resume Playback

Press the PLAY button again.

To Stop

Press the STOP button

→ The recorder stops in the middle of the file being played.

→ Playback will resume at the point of interruption



Forwarding and Rewinding

Fast Forward

Press and hold the FF button while playing a file. ₩ When you release the FF button, the recorder will resume normal playback.

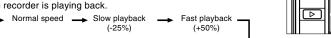
Rewind

Press and hold the REW button while playing a file.

- → When you release the REW button, the recorder will resume normal playback.
- The recorder stops when it reaches the end of the file. Continue pressing the FF button to proceed with the cue from the beginning of the next file.
- The recorder stops when it reaches the beginning of the file. Continue pressing the REW button to proceed with the review from the end of the previous file
- When the index mark is shown in the middle of a file, it will stop temporarily in the position of the index mark.

Changing Playing Speed

You can change the playing speed by pressing the PLAY button while the recorder is playing back.



• When the slow playback mode is selected, the "S.PLAY" appears and, for the fast playback mode "F.PLAY" appears on the display while the recorder is playing back. • The recorder stops playing when you press the STOP button while playing back in the slow/fast mode,

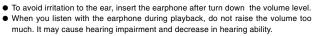
or when it reaches to the end of the file. If you once press the STOP button and start playback again the recorder will play back files in normal speed as well

Locating the Beginning of the File

While the recorder is playing back, pressing the FF or REW button forwards or rewinds to the beginning of the previous or next file respectively. If an index mark is encountered midway, playback begins at that point. (See "Index Marks" for details)

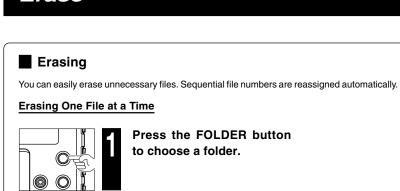
Listening with Earphones

You can listen to files by connecting earphones to the earphone jack. If an earphone is connected, the speaker doesn't emit sound. When connecting stereo earphones, the playback will be in stereo. (Only when playing back stereo files.)





-2--3--4-- 5 - Erase All Files from a Folder



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

File to be erased

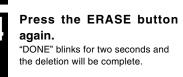
E RR SE

IIO NE

Folder to be erase

E PR SE

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



Press the FOLDER button to choose a folder.

button for 3 seconds or The "ERASE" indicator flashes

Press and hold the ERASE



Press the ERASE button again. "DONE" blinks for two seconds and

- 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
- 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)



Record mode indicator

3 Microphone sensitivity display VCVA (Variable Control Voice Actuator) indicator

(5) Frase lock indicator Current time/date, recording date (REC DATE), remaining recording time (REMAIN), menu display, file length

(7) Battery indicator

(9) Stereo display (10) Current file numbe

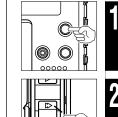
- 6-

Menu

Menu List ·(L DC K)↔ T IME → (FO RM RT) ↔ (RII PL RY) ↔ (BE EP) ↔ (VC VR) STHQ HI OFF AM/PM NO OFF ON OFF LO On Month/Day/Year yES On OFF On →: Press the FF or REW button./ : Initial setting • (ST))HQ is only available for the WS-200S. WS-200S is set to ((ST))HQ by default.

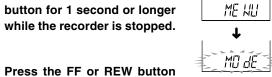
Basic Operation of the Menu Mode

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

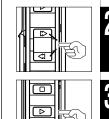


Press and hold the MENU button for 1 second or longer while the recorder is stopped.

to select what you would like

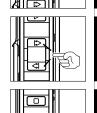


Current recording mode



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

to set up.



Use the FF or REW button to change the setting.



Press the PLAY button to confirm the setting.



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
- If you press the STOP or REC button during a menu setup operation, the recorder will stop and apply

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 HQ (long-term recording) recording), and LP (long-term recording).

In Menu mode selection... (ST)) HQ, HQ, SP, LP 0:08:05

Model Mode	((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.)

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(ST)HQ is only available for the WS-200S

Microphone sensitivity is adjustable to meet your recording needs.

In Menu mode selection... HI. LO

Microphone Sensitivity (MIC)

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

• To ensure successful recording, make a test recording to choose appropriate

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.



ED RM RT

FO RM RT

YES.

Microphone sensitivity display

MIL

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

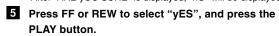
transfer those files from the recorder to the computer before formatting the device.

1 Press the MENU button.

2 Press the FF or REW button to choose "FORMAT".

3 When the PLAY button is pressed, "nO" is displayed.

4 Press FF or REW to select "yES", and press the PI AV hutton After "ARE yOU SURE" is displayed, "nO" will be displayed.



"DONE" displays when formatting ends

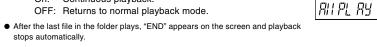
- It may take up to several tens of seconds to finish the initialization. Do not remove the battery or detach the battery compartment from the recorder during that time. Otherwise data may be damaged Never format the recorder from a PC.
- When the recorder is formatted, all the stored data, including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



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

ье ер

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



• 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.



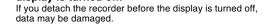
Other Functions

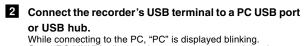
Connecting to Your PC

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

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





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

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

IBM PC/AT compatible PC Operating System: Microsoft Windows Me/ 2000 Professional/XP Professional.Home Edition

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 warra

- NEVER disconnect the USB cable while the record/play indicator lamp is flashing. If you do, the data
- 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 refere

• 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

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.

For safe And Correct Usage

- . 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.

/ Warning

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LINK

- . Under no circumstances insert any other parts than the main unit into the battery compart-
- ment. 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
- 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 time:

Microphone:

Dimensions:

Weight:

Maximum power

WS-100: monaural)

Speaker:

Recording medium: Built-in flash memory

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 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

Earphone jack (stereo): ø 3.5 mm diameter, impedance 2 k Ω Microphone jack: (WS-200S: stereo)

AAA (LR03 or R03) battery or Power supply: Ni-MH rechargeable battery Continuous battery use time (LP): Alkaline battery: Approx. 13 hours Ni-MH rechargeable battery: Approx. 12 hours

WS-100: 54 g (including battery) * Battery life is measured by Olympus. It varies greatly according to the type of batteries

94 (L) \times 40 (W) \times 15 1 (T) mm

WS-200S: 54 g (including battery)

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

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