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1

Safe and Proper Usage

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.

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General Precautions

- 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 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.
- Avoid sand or dirt. These can cause irreparable damage.
- Avoid strong vibrations or shocks.
- Do not disassemble, repair or modify the unit yourself.



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- Do not operate the unit while operating a vehicle (such as a bicycle, motorcycle, or car).
- Keep the unit out of the reach of children.

<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.

Battery

A Warning

- Battery should never be exposed to flame, heated, short-circuited or disassembled.
- Do not attempt to recharge alkaline, lithium or any other non-rechargeable battery.
- Never use any battery with a torn or cracked outer cover.
- Keep battery 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 be injured.
- (2) call your dealer or local Olympus representative for service.

•	1 Getting Started	
ļ	Main Features	
f	This product is equipped with the following features.	Main Features of the Digital Voice Recorder
	■ Dual function recorder as a Digital Voice Recorder and a Digital Music Player. (☞ P.15,44)	 The recorder stores highly compressed WMA format voice messages in integrated flash memory. (INP.15)
(• Connecting this recorder directly to the USB port links up with your PC. The data can be transferred or saved without USB cable or driver software. (By using the built-in stereo microphone, a stereo recording mode, which is ST HQ (Stereo High Quality), and 3 types of monaural recording modes, which are HQ (High Quality), SP
	 This USB storage class support recorder can be utilized as external memory to read and save the data (FR P 81) 	(Standard Playback), and LP (Long Playback) can be selected. (🖙 P.20)

• WS-320M (1 GB)*1

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ST HQ mode:	35 hours 25 minutes
HQ mode:	70 hours 50 minutes
SP mode:	139 hours 30 minutes
LP mode:	277 hours 20 minutes

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• WS-310M (512 MB)*1

ST HQ mode:	17 hours 40 minutes
HQ mode:	35 hours 20 minutes
SP mode:	69 hours 30 minutes
LP mode:	138 hours 15 minutes
• WS-300M (256 ME	3)*1
ST HQ mode:	8 hours 45 minutes
HQ mode:	17 hours 30 minutes
SP mode:	34 hours 35 minutes
LP mode:	68 hours 45 minutes



- By connecting the computer with the USB, pictures, text data, etc. can be saved, and utilized to carry data.
- It has a backlight full-dot display (LCD display screen). (For P.9)

- The five folders can hold 199 files each, for the maximum of 995 recordings.
 (INP P.15)
- You can insert or delete index marks.*² (
 [®] P.32)
- The playback speed can be controlled as preferred. (I P.25)



Main Features of the Digital Music Player

Playback time	
WS-320M (1 GB):	13 hours 20minutes to 45hours 20 minutes
WS-310M (512 MB):	6 hours 40minutes to 22hours 40 minutes
WS-300M (256 MB):	3 hours 20minutes to 11hours 20 minutes

● Has built-in WOW. (I P.61)

- *1 Available recording time may be shorter if many short recordings are made. (The displayed available recording time and recorded time are approximate indications.)
- Main Features
- *2 For WMA files, these functions are only available for files recorded with this recorder or the IC recorders from Olympus.

IBM and PC/AT are the trademarks or registered trademarks of International Business Machines Corporation.

Microsoft, Windows and Windows Media are registered trademarks of Microsoft Corporation.

WOW, SRS and (•) symbol are trademarks of SRS Labs, Inc.

WOW technology is incorporated under license from SRS Labs, Inc.

MPEG Layer-3 audio coding technology licensed from Fraunhofer IIS and Thomson.

Other product and brand names mentioned herein may be the trademarks or registered trademarks of their respective owners.









Display (LCD Panel)



The display appears when recording.



The display appears when indicating a file.

- **1** Folder indicator
- Battery indicator
- Microphone sensitivity indicator
- VCVA (Variable Control Voice Actuator) indicator
- **6** Stereo indicator
- Memory remaining indicator (E/F bar)
- Record mode indicator
- B Erase lock indicator
- O Total number of recorded files in the folder

- Current file number
- Character information display
- Polder name indicator
- Title and artist name indicator
- Play position bar indicator
- Current music file number
- Total number of recorded music files in the folder
- **(b)** Character information display



- Be sure to stop the recorder before replacing the battery. Unloading the battery while the recorder is in use may corrupt the file. If you are recording into a file and the battery runs out, you will lose your currently recorded file because the file header will not be able to close. It is crucial to change the battery once you see only one hash mark in the battery indicator.
- If it takes longer than 1 hour to replace the dead battery, you may have to reset the time when you load a fresh battery (RP P.12).
- Remove the battery if you are not going to use the recorder for an extended period of time.



If the recorder is stopped/not used for over 5 minutes after it is turned on, it goes into standby (power-save) mode, and the display shuts off. To exit standby mode and turn on the display, press any button.







You can choose the order of the year, month, day by pressing the FOLDER/INDEX button while setting them. Example: August 14, 2005

→ 8M 14D 2005Y → 14D 8M 2005Y → 2005Y 8M 14D (Initial setting)

Press the **STOP** button to close the menu.

Note

• If you press the OK button during the setup operation, the recorder will save the items that were set to that point.

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Changing the Time/Date

4



Press the + or – button in the sub menu screen, and select the "Time&Date".

See \square P.38, 68, 75 regarding the sub menu.





Follow the same steps starting at step 1 in "Setting Time/Date" ($\mathbb{R}^{\mathbb{P}}$ P.12).





1

Setting Time/Date (Time&Date)







Recording

Notes

- To ensure recording from the beginning, start speaking after you see the red record/play indicator light on.
- A beep will sound when remaining recording time reaches 60 seconds, 30 seconds, and 10 seconds while recording.



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Recording

- When remaining recording time is less than 60 seconds, the record/play indicator light starts flashing in red. When the recording time is decreasing to 30 or 10 seconds, the light flashes faster.
- "Memory Full" or "Folder Full" will be displayed when the memory or folder capacity is full. Delete any unnecessary files before recording any further (Fig P.70).



Pause

Press the **REC** button while recording.

- ➡ "Rec Pause" will flash on the display.
- The recorder will time out after 1 hour when left in "Rec Pause".



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Recording will resume at the point of interruption.





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Listening While Audio is Recorded (Recording Monitor)

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

2

Recording

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Connect the earphone to the EAR jack on the recorder

➡ After recording is started, you can hear the sound being recorded through the earphone. If the earphone is connected, no sound will come from the speaker.

Notes

- Recording level cannot be controlled using the volume button.
- When using the earphones, do NOT set the volume too high. Listening at very high volume may lead to hearing loss.

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Using the Variable Control Voice Actuator (VCVA) 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. 2 The VCVA feature extends recording time and conserves memory by stopping recording during

silent periods, which helps the playback to be more efficient.



Press and hold the OK button for 1 second or longer. The menu opens (187 P.38, 74). Press the + or - button to choose ſ "VCVA". 4

- Press the **OK** or **▶** I button. ſ The VCVA setup process begins.
- Press the + or button to choose between "On" and "Off".
 - On: Will start recording in VCVA mode. Will resume recording in normal Off: mode.
- Press the **OK** or I◀◀ button to complete the setup screen.
- Press the STOP or I close the menu.
- When "On" is selected, a VCVA indication will be displayed on the screen.
- (a) VCVA (Variable Control Voice Actuator) indicator







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Actuator



- If the surrounding noise is loud, the starting sensitivity of the VCVA can be adjusted according to the recording situation.
- To ensure successful recordings, prior testing and adjustment of the start/stop actuation level is recommended.





Notes

- When a meeting and lecture is to be recorded clearly, set other than LP mode to record.
- When the monaural microphone is inserted into the microphone jack in ST HQ mode, the sound will be recorded only in the L channel.



Notes

- When the speakers voice is to be recorded clearly, set to Dict (dictation) mode and move the built-in stereo microphone close to the speaker's mouth (5 to 10 cm / 2 to 4 inches) and record.
- If the ambient (background) noise is too loud to get a clear recording even in Dict (dictation) mode, we recommend that you use an ME12 single directional microphone (sold separately).



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Recording from External Microphone or Other Devices

The external microphone and other devices can be connected and the sound can be recorded. Connect as follows by the device to be used.



2

Recording with External Microphone

Connect the external microphone to the microphone jack of the recorder.

When the external microphone is connected to the microphone jack of the recorder, the built-in microphone will not operate.

Applicable External Microphones (optional)

Noise-cancellation monaural microphone: ME12 (Dictation microphone)

This microphone is used to record your own voice while minimizing surrounding noise and suits for voice recognition.

- Tie clip microphone: ME15 (monaural)
- Small concealing microphone with a tie-clip.
- Telephone pickup: TP7 (monaural)

Earphone type microphone can be plugged into your ear while phoning. The voice or conversation over the phone can be clearly recorded.

Stereo microphone: ME51S

The high fidelity of the recording, which only stereo can perform. Furthermore, it gives clear sound quality with less noise. Stereo recording is possible only when it is set to ST HQ mode.



phone



- execute a test recording and adjust the output level of the external device.
- A microphone with plug-in power, which receives the power supply from this recorder, can be used.
- Please do not insert/remove the cord to/from the jack of this recorder while recording.
- When the external stereo microphone is inserted while set in HQ, SP, and LP modes, it enables recording only with the L channel microphone.
- When the monaural microphone is inserted into the microphone jack in ST HQ mode, the sound will be recorded only in the L channel.







Changing Playing Speed (Slow Playback/Fast Playback)

(-25%)

Press the **PLAY** button once while playing a file.You can change the playing speed.

Normal speed - Slow Playback



Fast Playback

(+50%)

2

Playing

- As in normal playback, operations such as playback stop, file cueing, and index mark (F3* P.32) insertion are possible in slow playback and fast playback.
- 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 press the STOP button once and start playback again, the recorder will play back files in normal speed as well.
- During fast playback/slow playback, it will be played back in monaural even though the file was recorded in ST HQ mode.

Forwarding and Rewinding

Fast Forward

Press and hold the ►►I button while playing a file. ► When you release the ►►I button, the

- **198**/199 **5** HQ 45 M12s Cue
- recorder will resume normal playback. • When the index mark is shown in the middle of a file, it will stop temporarily in
- the position of the index mark.
- The recorder stops when it reaches the end of the file. Continue pressing the ►►I button to proceed with the cue from the beginning of the next file.





Playing



Rewind

Press and hold the I

- → When you release the I◄◀ button, the recorder will resume normal playback.
- When the index mark is shown in the middle of a file, it will stop temporarily in the position of the index mark.

198/199

45m12

• The recorder stops when it reaches the beginning of the file. Continue pressing the I

Locating the Beginning of the File

Press the ►►I button during playback, slow playback, or fast playback. The next file is cued and playback starts at the original speed.





Press the I◀◀ button during playback, slow playback, or fast playback. ➡ The file being played is cued and playback starts at the original speed.*

Press the I button 2 times during playback, slow playback or fast playback.

- ➡ The previous file is cued, and playback starts at the original speed.*
- When the index mark is shown in the middle of a file, playback starts at the position of the index mark.
- * If the previous playback is set (** P.31), the recorder will playback in reverse skip for the set time.

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When it reaches to the end of the last file, "End" will flash for 5 seconds, and stops at the starting position of the last file. While "End" is flashing, the following operation can be executed.



2

Playing

- If you press the I button, the recorder will start playback in reverse skip returning to whichever closer, the starting position of the last file or the index mark. When the previous playback is set to "On", it will be played in reverse skip only for the set time of the previous playback.
- If you press and hold the I d button, the recorder will start fast rewind from the end of the last file, and start playback from the point the button is released.
- If you press the **>>** button, the recorder will skip to the starting position of the head file and stop.
- If you press and hold the ►►I button, the recorder will skip to the starting position of the head file, and stop at the position the button is released.



Playback Through Earphone

An earphone can be connected to the EAR jack of the recorder for listening.

➡ When the earphone is used, the recorder speaker will be switched-off.

Notes

 To avoid irritation to the ear, insert the earphone after turning down the volume level.

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• When you listen with the earphone during playback, do not raise the volume too much. It may cause hearing impairment and decrease in hearing ability.





Note

• After playback of last file in the folder, "End" appears on the screen and playback stops automatically.







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- Choose the file for Repeat Playback, and press the PLAY button. File playback begins.
 - Dress and hold the OV but
- Press and hold the **OK** button for 1 second or longer.

" Start?" will flash on the display.

Press the **OK** button briefly at the point you want to start Repeat Playback.

" End?" will flash on the display.

Even while " Start?" and " End?" are flashing, changing the playback speed (ETRIC), fast forward and rewind (ETRIC) can be executed the same as during normal playback, and it can be advanced quickly to the start or end position.

When it reaches to the end of the file while "CEnd?" is flashing, the point will become the end position, and repeat playback will start.







Repeat Playback



2

Press the OK button briefly again 4 at the position you want repeat playback to end.

The recorder repeatedly plays back the section between the start and the end positions until you cancel repeat playback.



The playback speed (INP P.25) can be set during repeat playback as well as normal playback. If an index mark (re P.32) is inserted or deleted during repeat playback, repeat playback will be cancelled and return to the normal playback.

Cancel the Continuous Playback Function

Press the **OK** button.

Pressing the OK button will release repeat playback and continue playback.





Pressing the STOP button will release repeat playback and stop playback.

Press the **>>** button.

Pressing the PH button will release repeat playback and fast forward and cue to the beginning of the next file.

Press the I

Pressing the Idd button will release repeat playback and rewind and reverse to the beginning of the current file.





Press the I

is being replayed. Playback starts at the set point of seconds before.

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Note

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 If "1 Sec" or "2 Sec" is set at the previous playback, and even though the I set button is pressed, it does not reverse skip to the cue or the index mark position. Reverse skip is executed for only the set time (1 or 2 seconds).





Index Marks

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



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OK

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Setting an Index Mark

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



101/101

M46s

08

▨◬

GD HQ

Index

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Locating an Index Mark

- 2 Hold the ►►I or I◄◀ button while playing a file.
- The recorder stops for 1 second when it reaches the index mark.

Clearing an Index Mark



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- Cocate the index mark you want to clear.
- Press the ERASE button while the index number appears for approximately 2 seconds on the display. The index mark is erased.
- Index 08 Clear



Notes

- Up to 16 index marks can be set in a file. Attempting to set more index marks will cause "Index Full" to op to no index marks can be set in a me. Attempting to set more index marks will cause index num to appear on the display.
 Index marks cannot be set or cleared in a locked file (re P.34).
 The index marks can only be placed in WMA files recorded with OLYMPUS recorder .
 If the I< button is pressed in the set status of "1 Sec" or "2 Sec" in the previous playback, it will reverse

- skip for only the set time.







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Press and hold the STOP button.

While the STOP button is being pressed down, (1) and (2) will be alternately displayed every second and will return to the previous display when the STOP button is released.

 Memory remaining (Remaining time indicator)
 Displays the remaining time available for recording with the numbers and remaining memory E/F bar.



2 Memory remaining

(Remaining memory indicator) Displays the remaining memory available for recording with the numbers and remaining memory E/F bar.



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While in Record Mode



Press the OK button. Each time the OK button is pressed, (1) and (2) will be alternately displayed.

1 Recording level

meter (Count up indicator) Displays the audio input level with the meter at the bottom, remaining memory with the E / Fbar and recording elapsed time with the counter.



Display in the monaural recording mode

2 Recording level meter

(Count down indicator) Displays the audio input level with the meter at the bottom, remaining memory with the E / F bar and remaining recording time with the count down.



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LCD Display Information

While in Recording in VCVA Mode



Press the OK button.

Each time the OK button is pressed, 1 and 2 will be alternately displayed.

1 VCVA recording level meter

(Count up indicator) Displays the audio input level and start level with the meter at the bottom, remaining memory with the E/F bar and recording elapsed time with the counter.

(Displays in "Standby" if it has not reached to the VCVA start level).



Display in the monaural recording mode

2 VCVA recording level meter

(Count down indicator) Displays the audio input level and start level with the meter at the bottom, remaining memory with the E/F bar and remaining recording time with the count down. (Displays in "Standby" if it has not reached to the VCVA start level).



The recorder will stop if you leave it idle for 3 minutes during a menu setup operation, when a selected item is not applied.







- When you are downloading a file from the recorder or uploading a file to the recorder, do not remove the USB connecter even if the screen is indicating you can. Data is still being transferred while the record/play indicator light and USB access indicator light are blinking in red. When removing the USB connecter, be sure to follow the description in ☞ P.43. If the USB connecter is removed before the drive is stopped, data may not be successfully transferred.
- On a PC, do not format the drive of the recorder. Initialization is not successfully achieved on a PC. For initialization, follow the instructions in the Sub Menu screen of the recorder (FR P.79).
- Never make an operation such as deleting, moving or changing the name of this recorder's 5 voice folders (DSS_FLDA to DSS_FLDE), music folders (Music) or management files in each folder using the file management tool such as "Explorer".
 The order of files may be changed or files may become unrecognizable.

В

- Data can be written or uploaded to the recorder even though the attribute of the recorder drive is shown as read only by the operating system of the PC.
- As the noise may cause adverse effects on electronics devices nearby the recorder, unplug the external microphone and earphone when you connect the recorder to a PC.

Operating Environment

PC:

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

USB port:

One free port

Others: Internet environment when accessing to the music information site.

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Note

• USB ports are not supported on PCs running Windows 95, 98 or that have been upgraded from Windows 95, 98 to any other OS.

Saving Files in Your PC/Operating Environment



Note

• If you are using Windows 2000, Windows Media Player must be installed on the PC.



- in red. If you do so, the data may be destroyed.
- Refer to the user's manual for your PC regarding the USB port or USB hub on your PC.
- Be sure to push the USB connector all the way in. Otherwise, the recorder may not operate properly.
- Use the supplied USB extension cable depending on situations.

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4 Using the Recorder as a Music Player

Using the Recorder as a Music Player

The recorder supports music files in WMA and MP3 formats, which can be transferred from the PC to the corresponding music folder of the recorder.

Using Windows Media Player

By using Windows Media Player, music files from music CDs can be converted (ripped) ($\mathbb{R}^{\mathbb{R}}$ P.47) and music files that you have bought from any music distribution sites can be easily transferred to the recorder ($\mathbb{R}^{\mathbb{R}}$ P.48).



Copyright and Copyright Protection Feature (DRM)

By the Copyright Act, any voice/music files and music CDs downloaded from the Internet without the copyright holder's permission may not be reproduced, distributed, publicized/re-publicized on the Internet, or converted into WMA or MP3 files for the purpose of commercial business or sale.

A WMA file may be provided with DRM (Digital Right Management) for copyright protection. DRM limits the file to copy or distribute music files that are converted (ripped) from a music CD or downloaded from music distribution services. To transfer a WMA file with DRM to the recorder, you need to use appropriate methods such as Windows Media Player. Copying the music files with DRM purchased from online music distribution service to a portable device such as this recorder may be restricted.

Using the Recorder as a Music Player/Using Windows Media Player

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• This recorder is compatible with Microsoft Corporation PD-DRM, but not with JANUS.









Window Names

Windows Media Player 9



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Windows Media Player 9

Transferring Music File to the Recorder	

You can transfer the music files saved in your PC to this recorder. For how to copy the music files from the CD to your PC, see "Copying Music from CD" (I P.47).

Windows Media Player 10

Connect the recorder to a PC and start Windows Media Player.

2 From the Features taskbar, click the [Sync].

From the pull down menu on the left side window, select the play list to be transferred to the recorder and put the check marks on the music file that you want to transfer. The order of music pieces can be changed by Drag & Drop of the music file in the play list displayed.

From the pull down menu on the right side window, select the drive corresponding to the recorder. The recorder is recognized as a

Removable Disk.

5 Click i on the upper right corner and set the synchronization options.

Click on the [Create folder hierarchy on device] to check.* The folder with artist name or album name is automatically created. This will make you

- find the file you want to listen to more easily. * If [Create folder hierarchy on device] is
- checked by default, click to uncheck the box once, and click it again to check.



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Transferring Music File to the Recorder



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6 Click the [Start Sync]. The file is transfer The file is transferred to the recorder. The music file transferred to the recorder is displayed in Item on Device.

After transferring a language-learning file to the music folder, if you further transfer or copy the file to your desired voice folder (DSS_FLDA to DSS_FLDE) using a software like "Explorer", you can use the functions such as partial repeat, fast playback, slow playback, and previous playback.

Windows Media Player 9

Connect the recorder to a PC and start Windows Media Player.

From the Features taskbar, click the [Copy to CD or Device] menu. L

Select the play list to be ŋ transferred to the recorder and put the check marks on the music file that you want to transfer.

The order of music pieces can be changed by Drag & Drop of the music file in the play list displayed.

From Item on Device, select the drive corresponding to the recorder.

The recorder is recognized as a removable disk.





Notes

- · Copying the music files with DRM purchased online music distribution service to a portable device such as this recorder may be restricted.
- Refer to the online help of Windows Media Player for details.
- If the music files are transferred to the recorder until it reaches to the maximum memory, the message "Cannot make the system file. Connect to PC and delete unnecessary file" may appear on this recorder's display. In such a case, erase the files to make free space (hundreds of KB to dozens of MB depending on the music file sizes) for the management file. (The more capacity for the management file will be necessary as the number of the music files increases.)



About the Music Folders

This recorder can save the music files (WMA, MP3 files) transferred from the PC in the 2 music folders, the original "Root" folder and its subsidiary "Music" folder. Also, this recorder can create the folders in up to 2 layers within the "Music" folder. It is convenient

Also, this recorder can create the folders in up to 2 layers within the "Music" folder. It is convenient to manage the multiple albums with the same artist name. Up to 199 files can be saved in each folder.



Notes

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- Up to 128 folders including "Root" and "Music" folders can be operated on this recorder.
- When using Windows Media Player 10, click [Start Sync] instead of setting the synchronization options. All the files will be transferred to the part (A) above (INP P.48).





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This recorder supports WMA and MP3 formats. To playback the music files using the music player, you need to transfer (copy) the corresponding music files from the PC to this recorder's folders for music (IIII) P.48).



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Set the Mode switch to **MUSIC**.

The folder list or file list is displayed.

2 Insert the stereo earphone into the EAR (earphone) jack of the recorder.

Select the music file that you want to play.

On the list display, place the cursor on the file you want to play, or change to the file display.

If you press and hold the **D** or **I** or **I** or **I** the button in the file display, the files within the current folder are cued continuously.

(a) File being selected(b) Length of the file being selected

To return to the list display from the file display, or to return to the upper folder from the list display, press the FOLDER button.

Press the **PLAY** or **OK** button to start playback.

The title/artist name that cannot be displayed in one line is displayed scrolling to the left.

- © Play time of the file being played
- d Title and artist name of the file being played











Music Playback



When the Playback Reaches to the End of the Last File When the playback reaches to the last file in the current folder, it returns to the starting position of the head file and stops. If you select "All" in "Play Mode" (EP P.58), all the files in

Notes

- The proper bit rate for playback on the recorder is 5 kbps to 256 kbps for both the WMA and MP3 format.
- It is possible to play back MP3 files with different bit rates (converting the bit rate within one file); however, the displayed time may not be accurate.
- When using the earphones, do NOT set the volume too high. Listening at very high volume may lead to hearing loss.
- It is possible to listen to music without the earphones, using the internal speakers; however, the sound will be in mono, not stereo.
- Up to 40 characters per track can be used to list title and artist name.

this recorder can be played continuously.



Forwarding and Rewinding



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Fast Forward

Press and hold the **>>**I button while playing a file.

 \blacktriangleright When you release the \blacktriangleright button, the recorder will resume normal playback.





Press and hold the Idd button while playing a file.

- \blacktriangleright When you release the I \triangleleft button, the recorder will resume normal playback.
- Once it reaches back to the starting position of the file, it stops. If you press and hold the I◀◀ button, it continues rewinding within the playback range selected in the "Play Mode". While "Random" is set to "On", it continues the rewinding of files randomly.



Root 01/ SONG A/Artist A

Cue

Root 01 SONG A/Artist A

Rev

02:23

02:23

01/03

04:38

01/03

04:38







Music Playback

Skip a Music File While Playing It



Press the **>>**I button while playing a file.

- The recorder skips to the beginning of the next track and starts playing it.
- It cues within the playback range selected in "Play Mode" (☞ P.58). If "Random" (☞ P.60) is "On", it cues the next file randomly.

Press the I button while playing a music file.

The recorder skips to the beginning of the current track and starts playing it.

Press the Idd button 2 times during playback.

The previous file is cued, and playback starts at the original speed.

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• If "Random" is "On", the files will be cued randomly.

— When the Playback or Fast Forward Reaches to the End of the Last File –

When the playback reaches to the end of the last file, it returns to the starting position of the head file and stops. If "Random" is "On", it returns to the starting position of the file that is randomly played and stops.

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Music Playback









Notes

- If no operation is made for 3 minutes during the setting, it will return to the stop status.
- If "All" is selected, it plays the files within the folder, then starts playing the files in the next folder.





Notes

- If no operation is made for 3 minutes during the setting, it will return to the stop status.
- If both "Repeat" and "Random" are set to "On", it repeats playback randomly.





- If "All" is selected in "Play Mode", all files in a folder are randomly played, then another folder will be randomly selected, and the files in the folder will be randomly played.
- If both "Repeat" and "Random" are set to "On", it repeats playback randomly.







Notes

- If no operation is made for 3 minutes during the setting, it will return to the stop status.
- · Both the surround effect and bass effect are Off as the WOW default settings.
- "WOW" will be displayed on the screen if the surround effect or the bass effect is set.
- The WOW effect will be weakened if the bit rate for any music file is less than 32 kbps.
- Depending on the song, the WOW effect will be heightened, and may sound like noise. If this happens, adjust the WOW effect.





Notes

• If no operation is made for 3 minutes during the setting, it will return to the stop status.

• The equalizer default setting is Flat.



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Notes

- If no operation is made for 3 minutes during the setting, it will return to the stop status.
- Your equalizer settings will be retained in memory even when you change the battery.



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Erase All Files from a Folder

All files in a folder can be erased simultaneously. The locked files (INSP.34) and the files set to read-only on the PC will not be erased.



Ok

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- 2 Press the ERASE button for 3 seconds or longer. The "Cancel" indicator flashes.
- Press the + or button to choose "All Erase".
- **Press the ERASE or OK button.** The display changes to "All Erase!" and erasing will start.

"Erase Done" is displayed when the files are erased. The locked files and read-only files are reassigned the file numbers in ascending order, starting from "1".



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Erasing

Notes

- An erased file cannot be restored.
- The locked files and the files that are set to read-only will not be erased (187 P.34).
- If the ERASE button or the OK button is not pressed within 8 seconds after the erase mode display flashes, the recorder will return to the stop status.
- Completion of erasing may take about over 10 seconds. Never do anything during this period because data may be corrupted.

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Setting the **HOLD** switch to the HOLD position.

If you set the recorder to HOLD status by sliding the HOLD switch in the direction of the arrow, the current conditions will be preserved, and all buttons and switches except the HOLD switch will be disabled. This feature is useful when the recorder has to be carried in a bag or pocket.

Remember to reset the HOLD switch when using the recorder.

Notes



• If you switch to the Hold mode during stop status, the display will be turned off. Pressing any button during this status will make the clock display flash for 2 seconds, but will not operate the recorder.

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 If HOLD is applied during playback (recording), operation is disabled with the playback (recording) state unchanged. (When playback has ended and the recording has ended due the remaining memory being used up, it will be in the stop state.)



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Hold



Menu Setting Method

Each item of the menu list (1 P.38, 68) can be set by the following method.

Menu Setting



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4 to the item to be set.

Press the **OK** or **▶** I button. 5 Moves to the setting of the selected item. Press the Idd button to return to the previous page.

Press the + or - button to change 6 the setting.

¬ Press the **OK** or **I**◀◀ button to complete the setup screen.

Press the STOP button to close the menu.

Menu Setting Method Lock Back Space All Play Time & Date <u>AII Play</u> 0 m Off





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

> <u>Sub Menu</u> Format Contrast Backlight

> > <u>Beep</u>

Off

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Οn

Beep





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Display contrast can be adjusted in 12 levels.



- Press the + or button in the sub menu screen, and select the "Contrast".
- See 🖙 P.38, 68, 75 regarding the sub menu.
- Press the **OK** or ►►I button.

The LCD display contrast setup process 4 begins.

Press the + or - button to set the ŋ contrast level. J

You can adjust the LCD display contrast level from 1 to 12.

- Press the **OK** or I◀◀ button to 4 Press the OK or resolution of the setup screen.
- Press the **STOP** button to close the menu.





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The "Start" indicator flashes.

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Start



Formatting the Recorder (Format)



Press the **OK** button.

6 Press the OK button. Formatting begins and an indicator flashes on the display.

"Format Done" displays when formatting ends.



------Notes

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Formatting the Recorder (Format)

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- While formatting, do not remove the battery. It may take about 10 seconds or more for the erasing to end.
- Never format the recorder from a PC.
- After formatting, the first file name is 0001.
- Once the recorder is formatted, the music files with DRM may not be transferred to the recorder again.
- When the recorder is formatted, all the saved data, including locked files and read-only files, are erased.



 NEVER disconnect the USB while the record/play indicator light and USB access indicator light are flashing in red. Otherwise data may be damaged.

Other Information

Alarm Message List

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Message	Meaning	Explanation	Action
Battery Low	Low battery power	Battery power is getting low.	Replace with new battery (☞ P.10).
File Protected	Erase-locked	Tried to delete a locked file.	Unlock the file (I P.34).
Index Full	Index full	The file is full of index marks (maximum of 16 marks).	Erase index marks that are no longer required (167 P.32).
Index Can't Be Entered	File not supporting index	Tried to incorporate WMA file index marks into the music files or the files not recorded with the recorder.	You can incorporate index marks into the voice files recorded with the recorder or IC recorders from Olympus only.
Folder Full	Folder full	The folder is full of files (maximum of 199 files).	Erase unnecessary files (IPP P.70).
Memory Error	Error in the internal flash memory	Error in the internal memory.	This is a malfunction, so go to the store where you purchased the recorder or an Olympus service station for repair (* P.87).
Licence Mismatch	Illegally copied file	The music files copied illegally.	Delete the file (INF P.70).
Memory Full	Zero remaining memory	No remaining internal memory.	Erase unnecessary files (IN P.70).
No File	No file	No files were found in the folder.	Select another folder.
Format Error	Formatting error	There was an error while formatting the recorder's memory.	Reformat the memory (IFF P.79).
Read Only File	This file is read- only	Tried to erase the file that is set to read-only on the PC.	Cancel the read-only setting of the file on the PC.

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Alarm Message List

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Troubleshooting	g
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Symptom	Probable cause	Action	
Nothing appears	The battery is not loaded properly.	Verify polarity is correct.	
on the display	The battery is dead.	Replace with new battery (IN P.10).	
	The recorder is in HOLD mode.	Release the recorder from HOLD (INF P.11, 73).	
Won't start	The recorder is in HOLD mode.	Release the recorder from HOLD (IP P.11,73).	
	The battery is dead.	Replace with new battery (IN P.10).	
Unable to record	Low remaining internal flash memory.	Erase unnecessary files (P.70).	
	The maximum number of files has been reached.	Check another folder.	
	MUSIC mode is active.	Switch to VOICE mode (INP.14).	
No playback tone heard	The earphone is connected.	Unplug the earphones to use the internal speaker.	
	The VOL(+ or -) button is set to 0.	Adjust the VOL(+ or -) button (I P.24).	70
Unable to erase	The file is locked.	Unlock the file (r P.34).	b
	The file is read-only.	Cancel the read-only setting of the file on the PC.	est
Noise heard	The recorder was shaken during recording.		00
during playback	The recorder was placed near a cell phone or fluorescent light while recording or during playback.	Move the recorder.	u g
Recording level too low	The microphone sensitivity is too low.	Set the microphone sensitivity to "Conf" mode and try again (# P.21).	
Unable to set index marks	The maximum number of index marks (16) has been reached.	Erase unnecessary index marks (© P.32).	
	The file is locked.	Unlock the file (r P.34).	
	The file is read-only.	Cancel the read-only setting of the file on the PC.	
Cannot find the	The destination folder for downloading was	Copy the music file into the Root folder	
downloaded file	other than the Root folder or Music folder.	or Music folder.	
	VOICE mode is active.	Switch to MUSIC mode (FF P.14).	
Cannot find the	MUSIC mode is active.	Switch to VOICE mode (INP.14).	
recorded voice	Wrong folder.	Switch to the right folder.	



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Accessories (optional)

Stereo microphone: ME51S

The high fidelity of the recording, which only stereo can perform. Furthermore, it gives clear sound quality with less noise.

Noise-cancellation monaural microphone: ME12

(Dictation microphone)

Used to get crisp recordings of your own voice by reducing the effects of ambient noise. This is useful microphone and suits for voice recognition.

Ni-MH rechargeable battery and charger set: BC400 (Europe only)

BC400 comes with an Ni-MH rechargeable battery charger(BU-400) and 4 Ni-MH rechargeable batteries (BR401) as a pack. This charger can quick charge Olympus AA or AAA Ni-MH rechargeable batteries.

Ni-MH rechargeable battery: BR401

High-efficiency rechargeable long life batteries.

Accessories (optional)

Tie clip microphone: ME15

(Monaural) Small concealing microphone with a tie-clip.

Telephone pickup: TP7

Earphone type microphone can be plugged into your ear while phoning. The voice or conversation over the phone can be clearly recorded.

Connecting cord: KA333

Connecting cord which has stereo mini-plugs (ø3.5) with resistance at both ends. Use to connect from the earphone jack output of the recorder to the microphone input jack when recording. Converting plug adapters (PA331/PA231) which convert to the monaural mini plug (ø3.5) or monaural mini mini plug (ø2.5) are also enclosed.



Specifications

Recording format

For the Digital Voice Recorder

WMA (Windows Media Audio) Input level -70 dBv Sampling frequency ST HQ mode: 44.1 kHz HQ mode: 44.1 kHz SP mode: 22 kHz LP mode: 8 kHz **Overall frequency response** ST HQ mode: 100Hz to 15 kHz HQ mode: 100Hz to 12 kHz SP mode: 100Hz to 5 kHz LP mode: 100Hz to 3 kHz **Recording time** WS-320M (1 GB) ST HQ mode: Approx. 35 hours 25 minutes HQ mode: Approx. 70 hours 50 minutes SP mode: Approx. 139 hours 30 minutes LP mode: Approx. 277 hours 20 minutes WS-310M (512 MB) ST HQ mode: Approx. 17 hours 40 minutes HQ mode: Approx. 35 hours 20 minutes SP mode: Approx. 69 hours 30 minutes LP mode: Approx. 138 hours 15 minutes WS-300M (256 MB) ST HQ mode: Approx. 8 hours 45 minutes HQ mode: Approx. 17 hours 30 minutes SP mode: Approx. 34 hours 35 minutes LP mode: Approx. 68 hours 45 minutes Alkaline battery life Recording: Approx. 11 hours (Stereo) Approx. 15 hours (Monaural) Playback: Approx. 7 hours (Stereo)

Approx. 7 hours (Monaural)

Ni-MH rechargeable battery life

Recording: Approx. 9 hours (Stereo) Approx. 12 hours (Monaural) Playback: Approx. 6 hours (Stereo) Approx. 6 hours (Monaural)

For the Digital Music Player

Compatible data format WMA, MP3 format Sampling frequency 44.1 kHz **Frequency band** 20Hz to 20kHz **Playback time** WS-320M (1 GB) pecifications Approx. 13 hours 20 minutes to 45 hours 20 minutes WS-310M (512 MB) Approx. 6 hours 40 minutes to 22 hours 40 minutes WS-300M (256 MB) Approx. 3 hours 20 minutes to 11 hours 20 minutes (Time may vary depending on the bit rate of the music data.) Maximum headphone output 5mW + 5mW (at load of 22 Ω) Alkaline battery life WMA: Approx. 14 hours MP3: Approx. 16 hours Ni-MH rechargeable battery life WMA: Approx. 11 hours MP3: Approx. 12 hours





Specifications

Common Specifications

Recording medium Built-in NAND FLASH memory 1 GB (WS-320M) 512 MB (WS-310M) 256 MB (WS-300M) Speaker Built-in ø18 mm round dynamic speaker MIC jack ø3.5, impedance $2k\Omega$ EAR jack ø3.5, impedance 8Ω or more Maximum working output (3 V DC) 70 mW or more (8 Ω speaker) Input power requirement Rated voltage: 1.5 V Batteries: AAA battery (LR03 , R03 or ZR03) or Ni-MH rechargeable battery External dimensions 94.8 x 38.2 x 11 mm (without protrusions)

Weight

Specifications

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46 g (including alkaline battery)

* Specifications and design are subject to change without notice.

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







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For customers in North and South America

Declaration of Conformity WS-320M/WS-310M/WS-300M DIGITAL VOICE RECORDER OLYMPUS IMAGING AMERICA INC. Model Number: Trade Name: Responsible Party: Address: Telephone Number: 2 Corporate Center Drive, PO BOX 9058 Melville, NY 11747-9058, U.S.A. 800-622-6372 This device Complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.





With FCC Standards FOR HOME OR OFFICE USE

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.



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-320M/ WS-310M/WS-300M



X

L'indication "CE" signifie que ce produit est conforme aux exigences concernant la sécurité, la santé, l'environnement et la protection du consommateur.



Le symbole [poubelle sur roue barrée d'une croix WEEE annexe IV] indique une collecte séparée des déchets d'équipements électriques et électroniques dans les pays de L'UE. Veuillez ne pas jeter l'équipement dans les ordures domestiques. A utiliser pour la mise en rebut de ces types d'équipements conformément aux systèmes de traitement et de collecte disponibles dans votre pays. Produit applicable : WS-320M/WS-310M/WS-300M



El distintivo "CE" indica que este producto cumple las exigencias europeas en materia de seguridad, salud, medio ambiente y protección al consumidor.

El distintivo "CE" indica que



Este símbolo [un contenedor de basura tachado con una X en el Anexo IV de WEEE] indica que la Anexo IV de WEEE] indica que la recogida de basura de equipos eléctricos y electrónicos deberá tratarse por separado en los paies de la Unión Europea. No trie este equipo a la basura doméstica. Para el desceho de este tipo de equipos utilice los sistemas de devolución al vendedor y de recogida que se encuentren disponibles.

Producto aplicable: WS-320M/WS-310M/WS-300M

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