



USER'S MANUAL
WVR-175/WVR-185



Digital Recorder

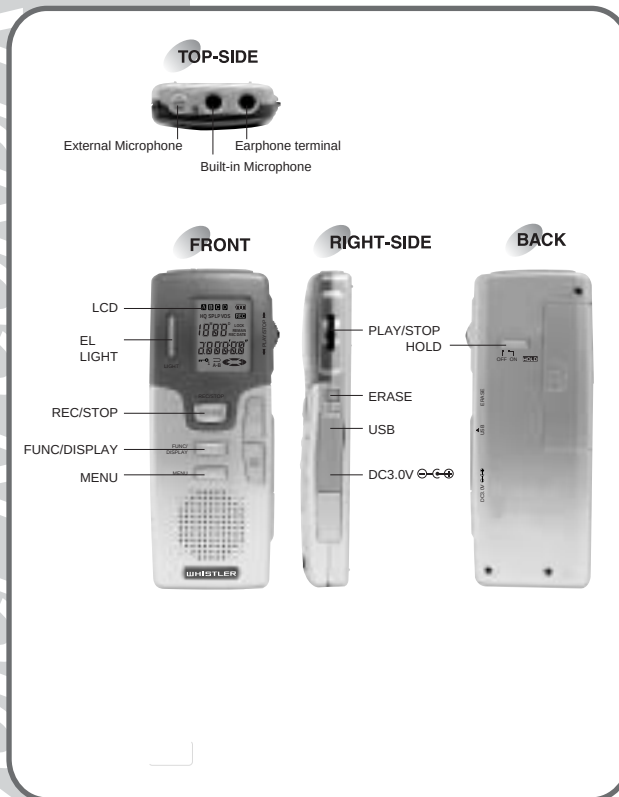
INDEX

Features	2
Names of Parts	3
LCD Descriptions	4
Before Using	5
-Inserting Battery	5
-Setting Date/Time	6
Using Voice Recorder	8
-Recording	8
-Playback	9
-Deleting Recorded Sound	10
-Hearing Aid Function	12
-Setting Menu	13
-Recording Functions	14
-Playback Functions	15
-Editing	19
Connecting to External Device	22
Cautions	25
Troubleshooting	27
Specifications	

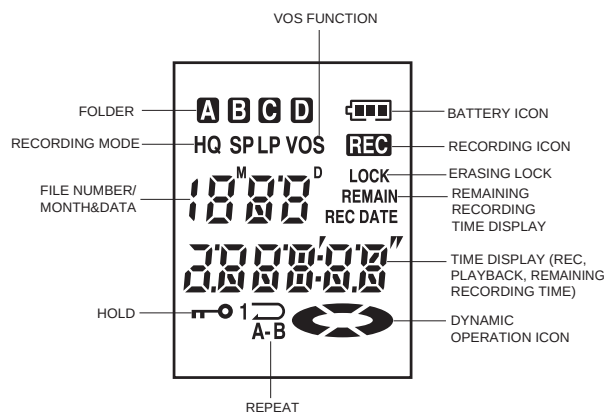
Features

- ✎ **COMPACT SIZE**
Handy to carry due to compact size and light-weight.
- ✎ **FLASH MEMORY**
Recorded sound is preserved even if the power is off.
- ✎ **AUTOMATIC POWER OFF**
Automated power break reduces battery consumption.
- ✎ **TIME STAMP & REMAINING RECORDING TIME DISPLAY**
Recording time & remaining time is displayed on the LCD.
- ✎ **RECORDING MODE**
You can choose one recording mode among HQ ,SP and LP.
- ✎ **LONG TIME RECORDING**
Maximum 33.6 hours recording is supported with LP mode.
- ✎ **VOS(Voice Operated Recording System)**
Recording id proceeded only when voice is emitted to reduce the memory usage.
- ✎ **PLAY BACK SPEED CONTROL**
You can control playback speed in 3 levels; fast, normal and slow.
- ✎ **REPEAT PLAY**
You can repeat selected file(s) continuously.
- ✎ **SCAN PLAY**
The first 5 seconds of each files are played back one by one.
- ✎ **EXTERNAL IN/OUT CONNECTION**
Mutual connection with another appliances is available.
- ✎ **EL BACK LIGHTING**
You can check LCD displays in dark place.
- ✎ **CONVENIENT EDIT FUNCTION**
You don't need to waste much time to edit messages. .
- ✎ **TEL FUNCTION**
Recording is started automatically when you start a conversation on the phone.
- ✎ **HEARING AID FUNCTION**
You can amplify low sound to aid hearing.
- ✎ **RECORDING MAX. 300 MESSAGES**
You can record each 100 mesages in A, B and C folder.
- ✎ **PORTABLE USB DEVICE**
D folder can be used for a USB storage drive.

Name of Parts



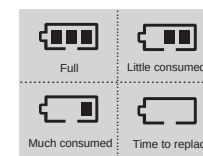
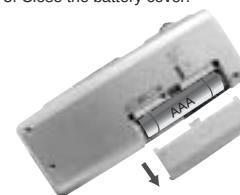
LCD Descriptions



Before Using

Inserting Battery

1. Push the battery cover and slide it in the arrow direction.
2. Insert two AAA alkaline batteries. Make sure that the polarities (+, -) are correct.
3. Close the battery cover.



(Battery Type : AAA or LR03 or UM-4 or equivalent)



Make sure to insert the batteries in stop mode.

Battery Lifetime ("AAA" Alkaline)

Battery	Recording	Playback
"AAA" Alkaline	19 hours	11 hours

Note

- The power is turned off automatically for efficient use of the battery if you do not use the product for more than 1 minute.
- When you do not use the product, set the HOLD switch to ON to prevent unwanted consumption of the battery due to misuse of the buttons.
- Battery lifetime is subject to battery type and the volume you use.

Before Using

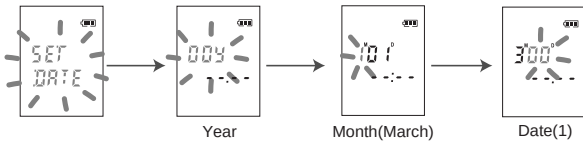
Power On/Off

1. Set the HOLD button to OFF (HOLD OFF)
2. Press the PLAY/STOP or FUNC/DISP or REC/STOP button shortly once to turn the power on.
3. Press the PLAY/STOP or FUNC/DISP or REC/STOP button shortly once to turn the power off.

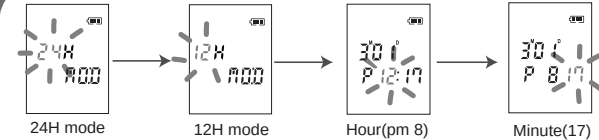
Setting Date/ Time

1. Set the year : Select a year you want using the jog key when the "00Y" message blinks on the LCD and press the MENU button shortly once. The year you selected is set and the mode changes to the mode you can set a month.
2. Set the month : Select a month you want using the jog key when the "1M" message blinks on the LCD and press the MENU button shortly once. The month you selected is set and the mode changes to the mode you can set a day.
3. Set the day : Select a day you want using the jog key when the "1D" message blinks on the LCD and press the MENU button shortly once. The day you selected is set and the mode changes to the time mode you can set a time.
4. Set the 12H/24H mode: Select the 12H/24H mode using the jog key when the "12" message blinks on the LCD and press the MENU button shortly once. The 12H/24H mode is set and the mode changes to the mode you can set the time. by the jog key, press the MENU button.
5. Set the time : Select the time using the jog key and press the MENU button shortly once. The time you selected is set and the mode changes to the mode you can set a minute.
6. Set the minute: Select the minute you want using the jog key when the "00" message blinks on the LCD and press the MENU button shortly once to set the minute you selected. The time setting is completed and the product changes to the standby mode.

e.g) To set 8 : 17 PM on March 1, 2005, operate as follows.



Before Using



Note

- To change the clock, press MENU button more than 1 second in Clock or Stop mode.

Using Voice Recorder

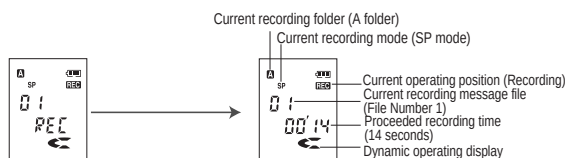
Button Functions

- ⌂ PLAY/STOP : Playback and Stop
- ⌂ FUNC/DISP : Selects functions and stops playback/recording temporarily
- ⌂ REC/STOP : Recording and Stop
- ⌂ MENU/REPEAT : Selects MENU, SEARCH, REPEAT, FF and REW
- ⌂ VOLUME +, - : Volume control
- ⌂ ERASE : Deleting recorded files
- ⌂ HOLD : Button hold on/off to prevent unwanted operations

Recording

Records voice or sound.

1. Turn the power on.
2. Place the MIC toward sound source.
3. Press the REC/STOP button shortly once to start recording.
4. Press the REC/STOP button again shortly to stop recording.



Note

- If the recording source is shorter than 2 seconds, it is not recorded.
- Volume control is disabled during recording.



Try a test recording first to prevent recording failure.

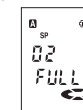
Using Voice Recorder

Note

- If the number of the files is more than 100 for a folder, FULL is displayed and recording is disabled.
- When the recording time is over, FULL is displayed and recording is disabled.



<The number of files is more than 100>

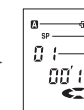


<The recording time is over>

Playback

You can hear the recorded sound using the built-in speaker or earphone.

1. Select the file you wish to playback.
2. Control the volume using the Volume button.
3. Press the PLAY/STOP button shortly once to playback the selected file.
4. Press the PLAY/STOP button shortly again to stop playback.



- Current playing folder (A folder)
- Current playing mode (SP mode)
- Current playing message file (File Number 1)
- Proceeded playing time (14 seconds)
- Dynamic operation icon

Note

- During playing back messages, MENU won't be operated.



- Do not listen to recorded files with a loud volume. Otherwise it may damage your hearing.
- Start from a low volume, and then set the volume to an appropriate level.

Using Voice Recorder

Deleting Recorded Sound

Deletes the sound recorded in the product.

<Deleting one file>

Deletes one file in the recorded files. The file numbers are decreased by one after deleting file.

1. Select the file to delete in stop mode.
2. Press the ERASE button more than 3 seconds. The ERASE message blinks and the first 5 seconds of the recorded file are played back.
3. Press the ERASE button shortly again to delete file.



<Deleting all files in a folder>

Deletes all the recorded files saved in a folder.

1. Select the folder to delete. (See page 00)
2. Press the ERASE and REC/STOP buttons at the same time in stop mode for more than 3 seconds. The ALL ERASE message blinks on the LCD.
3. Press the ERASE button again shortly to delete all files in the folder.

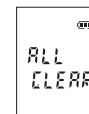


Using Voice Recorder

<Formatting>

Deletes all recorded files in the product

1. Press the ERASE and REC/STOP buttons at the same time in stop mode for more than 7 seconds. The ALL CLEAR message blinks on the LCD.
2. Press the ERASE button shortly again to delete all recorded files saved in the product.



Note

- If you press other button except the ERASE button, file deletion is cancelled.
- If you do not press any button for 10 seconds the ERASE function is released automatically.
- File Erase Prevented file is not deleted when you delete one file or in one folder.
- All recorded files even including "File Erase Prevented" files is erased after formatting.



The deleted recording file cannot be recovered. Please make sure to decide carefully and check the file(s) you select to delete.

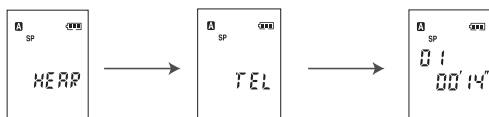
Using Voice Recorder

1. Hearing Aid Function

You can amplify low sound to aid hearing.

<Switching to Hearing Aid Function>

1. Connect an earphone to the earphone terminal.
2. Press the FUNC/DISP button shortly once to start hearing.
3. Press the FUNC/DISP button twice to stop hearing. Or press the PLAY/STOP button shortly once.



3. Volume Control

Press the VOLUME button to control the volume.

4. Recording in Hearing Aid Function

1. Press the REC/STOP button shortly once in the Hearing Aid Mode to start recording.
2. Press REC/STOP button once again to stop recording.
3. Press FUNC/DISP button once to pause recording.

Note

- Operating order of the FUNC/DISP button : VOICE; HEAR; TEL; VOICE
- Please replace the batteries when the LO Batt message blinks on the LCD.



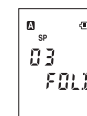
Using Voice Recorder

1. Setting Menu

Select Folder

You can save a file in one of A, B, C folder.

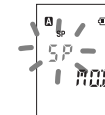
1. Press the MENU button shortly once.
2. Select a folder using the jog key. The folder changes in order of A->B->C by each press.



Setting Recording Mode

You can record in appropriate mode you want according to your situation.

1. Press the MENU button shortly twice.
2. Select one option of HQ, SP and LP using the jog key.

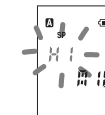


Setting Mic Sense

You can record in appropriate mode of HI, NOR or LO mode according to your situation.

1. Press the MENU button shortly three times.
2. Select one option using the jog key.

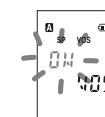
HI: Quiet place/ NOR: Normal/ LO: Noisy place



Setting VOS(Voice Operated Recording System)

Recording is proceeded only when sound is emitted. It reduces memory usage.

1. Press the MENU button shortly four time.
2. Select ON or OFF using the jog key.



Using Voice Recorder

File Erase Prevention Function

This function prevents files from being erased due to unwanted operations.

1. Press the MENU button shortly five times.
2. Select ON or OFF using the jog key.



Repeating Folder Playback

Playback all the files in a folder repeatedly.

1. Press the MENU button shortly six times.
2. Select ON or OFF using the jog key.



Recording Functions

<Recording Pause>

Stops the recording temporarily.

1. Press the FUNC/DISP button shortly once to pause a recording.
2. Press the FUNC/CISP button shortly once to start recording again.

Note

- When 30 minutes are passed after you paused, the power is turned off automatically.

<Checking Current Time and Remaining Time>

Displays the accurate available recording time remained.

1. Press the FUNC/DISP button for more than 1 second.
2. RECORDING STATUS -> CURRENT TIME->REC DATE->REMAINING TIME displays in order.

<Recording Monitoring>

Records the sound with hearing the recording sound using an earphone. Connect an earphone to the earphone terminal of the product.

<Index Added Recording>

Adds the indexing number(file number) of the file being recorded. Slide up the jog key during recording, the file number of the file being recorded is increased and saved automatically.

Using Voice Recorder

1. When you slide up the jog key and record for 30 minutes after recording for 30 minutes starting from the number 1 file, the sound is recorded in the number 1 file for 30 minutes and in the number 2 file for 30 minutes.

Playback Functions

<Volume Control>

Controls the volume using the VOLUME.

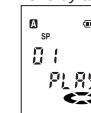
The range is between 0 and 20.



<Pause>

Stops the playback temporarily.

1. Press the FUNC/DISP button shortly once during playback.
2. Press the FUNC/DISP button or the PLAY/STOP button shortly again to continue playback.



Note

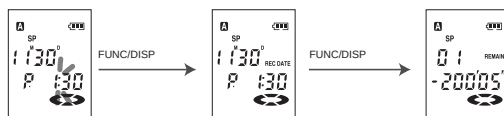
When 30 minutes are passed after you paused, the power is turned off automatically.

Using Voice Recorder

<Checking Current Time and Remaining Playback Time>

Shows current time and remaining playback time.

1. Press the FUNC/DISP button longer once during playback.
2. PLAYBACK STATUS-> CURRENT TIME -> REC DATE->REMAIN TIME displays in order.



Note

If there is no message, REC DATE is not displayed.

<Additional Recording>

Records additional sound at the end of the file being played back.

1. Press the REC/STOP button longer once during playback.
2. The Add-R message is displayed and the additional recording starts.
3. To stop additional recording, press the REC/STOP button shortly once.



1. When you want to add an additional recording to the number 2 file
1. Press the PLAY/STOP button to playback the file #2.
2. Press the REC/STOP button longer more than 1 second during playback.
3. The Add-R message is displayed and the sound is recorded and added to the end of the number 2 file.

<Resume>

Plays back from the position you stopped when you stopped playback.

Note

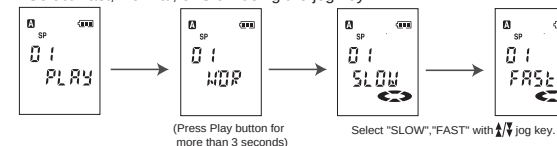
If you press other button than the PLAY/STOP button after stopping playback, the file is played back from the first position.

Using Voice Recorder

<PLAY SPEED CONTROL>

You can control playback speed in 3 levels: Fast(30% faster than the normal speed), Normal(steady speed) or Slow(30% slower than the normal speed).

1. Press the PLAY/STOP button longer during playback.
2. Select Fast, Normal, or Slow using the jog key.



<Scan and Playback>

The first 5 seconds of each files are played back one by one.

1. Press the PLAY/STOP button longer more than 1 second in stop mode or playback.
2. The SCAN message is displayed on the LCD and the first 5 seconds of the recorded files are played back in the order.
3. Press the PLAY/STOP button shortly once to stop scan and play.



<REW & FF>

You can move to, search, or select a file using the jog key.

- Moving to the previous or next file: Slide up or down the jog key shortly during playback.
- Scanning file: Slide up or down and hold the jog key during playback. During the first 10 seconds: The playback time is increased or decreased by second. After 10 seconds: The playback time is increased or decreased by 10 seconds.
- Selecting the previous or next file: Slide up or down the jog key in stop mode.

Using Voice Recorder

<One File Repeat>

Repeats the selected file continuously.

1. Press the MENU button longer during playback to repeat playback.
2. Press the MENU button longer once again to release repeating file.



<Repeating A-B Section>

Repeats playback for a specified section

1. Press the MENU button shortly once on the first position of the section you wish to repeat during playback, the position A is set.
2. Press the MENU button shortly once on the end position of the section you wish to repeat during playback. The position B is set and the A-B section is played back repeatedly.
3. Press the PLAY/STOP button to release section.



(selecting point A)



(selecting point B)

Note

After selecting the position A, if you do not select the position B, the end position of the file is to the position B.

Using Voice Recorder

Editing

<File Dividing>

You can divide a file into two files.

1. Playback a file that you want to divide.
2. Press the FUNC/DISP button at the part which you want to divide.
3. Press the MENU button longer once to start dividing.
4. Press the MENU button shortly once an the OFF DIV message is displayed on the LCD.
5. Select ON using the jog key and press the MENU(→) button shortly once. Then the file is divided.



Note

- The file number is increased after dividing.
- The longer you have recorded previously, the longer the dividing time is taken to divide.
- If the memory or file number is full, files are not divided.
- The file less than 5 seconds recording cannot be divided.
- The recording date of the two divided is the same.

Using Voice Recorder

<File Combining>

You can combine two files to one file.

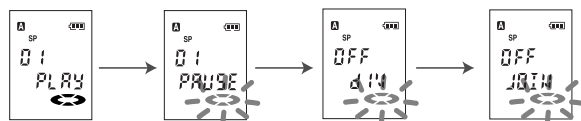
1. Playback the fore file of the 2 files.(Playback #3 file when you want to combine #2 and #3 file.)

2. Press the FUNC/DISP button at any point of the file.

3. Press the MENU button longer once to start combining.

4. Press the MENU button shortly twice then OF JOIN message is displayed.

5. Select ON using the jog key and press the MENU button shortly once to combine two files.



Note

- The longer you have recorded previously, the longer the combining time is taken to combine.
- If memory or file number is full, files are not combined.
- Files with different recording mode cannot be combined each other.
- The last message file cannot be combined.

Operating Recorder

3. File Moving

You can move a message file from one folder to the other.

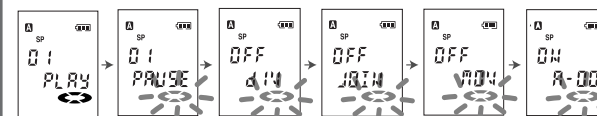
1. Playback the file you want to move.

2. Press the FUNC/DISP button at any point of the file.

3. Press the MENU button longer once to move the file.

4. Press the MENU button shortly three times then the OFF MOV message is displayed.

5. Select a folder between A, B and C with the jog key and press the MENU button shortly once to move the file.



Note

- After completing file moving, the file is deleted at the original folder or file location.



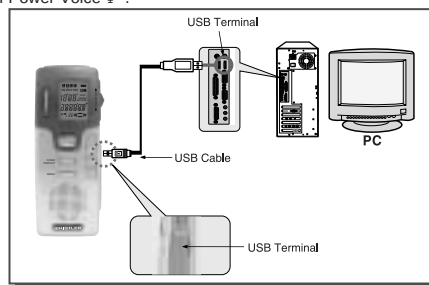
- ! All editing operation operates in pause mode only.
- ! If the memory capacity is not enough, editing is impossible and the CANNOT message is displayed.
- ! Please do not remove batteries during editing. The file may not playback properly.
- ! When the LO Batt is displayed on the LCD, please replace the batteries before editing.



Connecting to External Device

USB Interface

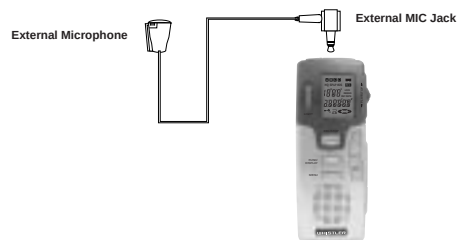
You can connect to the recorder to you PC with a USB cable and transmit data between them. For more information on how to transmit data, refer to the user's manual of Power Voice ¥-.



Recording with external microphone

You can also record by connecting an external microphone to the microphone terminal of you recorder.

If you fix an external microphone onto your collar, you can act freely and you can recored more clear sound when you come near to the source of sound.



Connecting to External Device

When recording the sound of an external device to your recorder

You can record the sound of an external sound device to your recorder.

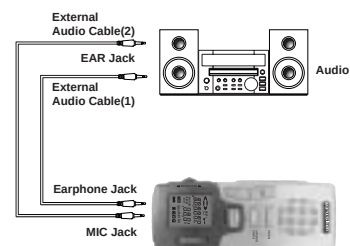
1. Connect the output terminal(earphone terminal) of an external device and the microphone terminal of the recorder with and audio.
2. Control the volume of the external device properly. If the volume of the device is loud, the sound my be distorted when you playback the recorded sound.
3. Press the playback button of the external device and the press the RECORD button of your voice recorder.

When recording the sound recorded in you recorde onto an external device

You can transmit the sound recorded in you recorder onto an external device.

Connect the earphone terminal of you voice recorder and the input terminal (microphone terminal) of an external device with an audio cable. Then, press the PLAYBACK button of your voice recorder and press the RECORD button of the external device.

Connect to MIC IN or External INPUT Jack



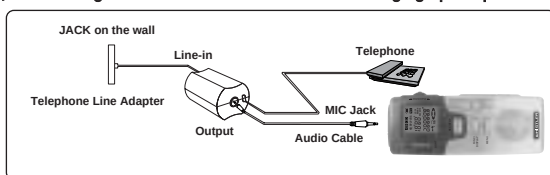
Connecting to External Device

Automatic Telephone Recording

1. Connect an adaptor for telephone recording and the cable as shown in the following picture.
2. Press the FUNC/DISP button twice in stop mode to set TEL mode.
3. Start a telephone conversation, then recording starts automatically.
4. Press the FUNC/DISP button once again to stop recording.



Recording will continue till 20 seconds after hanging up the phone.



The telephones which does not meet the standard of modular jack of the digital telephone available in the digital communication are not supported.

Cautions

Cautions for Use of the Product

- Do not drop down any materials on the product or impact against the product.
- Do not drop down any materials on the product or impact against the product.
- Do not install the product in a place exposed to these conditions:
 - High temperature (above 40°C)
 - Poorly ventilated or closed (car inside, especially summer)
 - Much moisture (humidity, above 75%)
 - Dusty place
- Do not impact against the LCD of the product.
- Make sure not to place cash cards or pass cards, susceptible to magnetic influences, near to the speaker of the product.
- Do not clean using chemicals such as alcohol, benzene, or sinner, etc.
- Does not have any responsibility for property loss due to your use of the product even if you use the product correctly.
- Does not have any responsibility for memory data corruptions and resulted property loss due to product malfunction or fault, repair, and/or other reasons.

Cautions for Use of the Battery

- Make sure to use the specified standard battery. (AAA Alkaline battery)
- Do not impose heat on it. Do not disassemble or short-circuit. Otherwise, it may cause damages or malfunctions to the product.
- Do not place the metals such as coins and keys with the battery. Otherwise, it may cause a fire due to frictional heat.
- Make sure that the polarities are correct when inserting a battery.
- Place the battery in a location that your children or infants cannot access to.
- Make sure to remove the battery when you do not use the product for a long time.
- Do not mix a new battery with the old one.
- When your skin or clothes is stained with electrolyte: Wash them with clean water immediately. When your skin has been hurt, make sure to consult your doctor.
- When electrolyte enters your eye: Do not rub your eye. Wash it with clean water immediately and make sure to consult your doctor.

Cautions

⚠ Cautions for Safety

- ⚡ If the product smokes or any modification occurs due to heating, remove the battery immediately.
- ⚡ Do not use the product in an airplane or a place where electronic device should not be used.
- ⚡ Do not use the product during driving or walking. Otherwise it may cause a traffic accident.
- ⚡ Do not listen to with a loud volume. Otherwise it may damage your hearing. Control the volume again.
- ⚡ Do not disassemble the product arbitrarily.

Troubleshooting

When you encounter any problem, check the following items.

Nothing is displayed on the LCD.

- Check whether the battery runs out. ➡ Replace the battery with a new one.
- Check whether the polarities are correct. ➡ Make sure that the polarities are correct.

Cannot record.

- Check whether the HOLD switch is set to ON. ➡ Set the HOLD switch to OFF.
- Check whether the memory is full. ➡ Delete unnecessary recorded files.
- Check whether the battery runs out. ➡ Replace the battery with a new one.

Cannot playback.

- Check whether the HOLD switch is set to ON. ➡ Set the HOLD switch to OFF.
- Check whether your recorder has the sound. ➡ Verify the number of the recorded sound recorded.
- Check whether the battery runs out. ➡ Replace the battery with a new one.

Cannot hear sound from the speaker.

- Check the volume is set to 0(zero). ➡ Control the volume.
- Check the earphone is connected. ➡ Disconnect the earphone.

Cannot hear sound through the earphone.

- Check the volume is set to 0(zero). ➡ Control the volume.
- Check whether the earphone is connected. ➡ Connect the earphone firmly and correctly.

"ERROR" is displayed on the LCD and all buttons does not operate.

- ➡ Format your recorder.

Specifications

ITEM	SPECIFICATION	
Model	WVR-175	WVR-185
Max. Recording Time (HQ)	310 min.	620 min.
Max. Recording Time (SP)	464 min.	930 min.
Max. Recording Time (LP)	1012 min.	2029 min.
Number of Files & Folders	Voice	3 Folders(A, B, C) x100 Files
	Data	1(D) Folder
Memory	32 MB	64 MB
Frequency	500 ~ 3400 Hz	
Actual Max. Output	180 mW	
Earphone	3.5 $\emptyset$ Mono Jack	
Microphone	3.5 $\emptyset$ Mono Jack	
USB Cable	PC Interface USB 1.1	
Speaker	Dynamic 20mm, 8 Ohm	
Dimensions	4.2" x 1.6" x 0.7 (W x H x D)	
Weight	2.50 oz(Including battery)	
Storage Media	Imbedded Flash Memory	
Power	DC 3V, AAA Alkaline battery x 2	
Battery Lifetime	Recording: 19 Hours, Playback: 11 Hours	
Operating Temperature	0 $\circ$ ~ 40 $\circ$	
Accessories	User Manual, Earphone, USB Cable, Installation CD	

⚠ The specifications and appearance of the product may change without prior notice in order to improve the quality.

Note

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.

Note : 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.

NOTE:THE MANUFACTURER IS NOT RESPONSIBLE FOR ANY RADIO OR TV INTERFERENCE CAUSED BY UNAUTHORIZED MODIFICATIONS TO THIS EQUIPMENT. SUCH MODIFICATIONS COULD VOID THE USER'S AUTHORITY TO OPERATE THE EQUIPMENT.