

Voice Recorder

Made in Korea

Version 2005.7



Voice Recorder

Be sure to read this user manual before using the recorder.
Keep this manual in good custody as it may be useful later.

Features

■ Long Recording Time

In LP mode, you can record up to 33 hours and 20 minutes(Standard of 64MB).

■ Automatic Power Off

Power automatically turns off when the recorder is not in use for more than one minute.

■ Recording Quality Selection

Recording quality can be selected using three modes: HQ/SP/LP whereby each mode adjusts the recording time.

■ VOR Recording

With this mode, the recording time can be used to its maximum, since the recorder operates only when an audible sound exists.

■ Hearing Function

You can listen to the voice coming from the microphone on earphones and adjust the sound levels without using the recording function.

■ Recovery of erased files

You can recover the files even though you have erased the recorded files.

■ External Power Supply (DC5V)

■ USB Digital Interface

■ Deluxe Design

■ Telephone Message Recording

■ Microphone Sensitivity Selection

■ Repeated Playback

■ Section Repeat Playback

■ Quick Message Search

■ Beep Sound Setting

■ Additional Recording (Append)

■ Recorded Message Monitoring

■ File Search (Intro Scan)

■ Playback Speed

■ Caution for Drive Installation in Windows XP

If this picture appears in last stage when you do Drive installation in Windows XP, Be sure to "Continue (C)" button (pls. refer to page 31 ~ 34).

If you click "Stop(S)" button, program connection will not be available.



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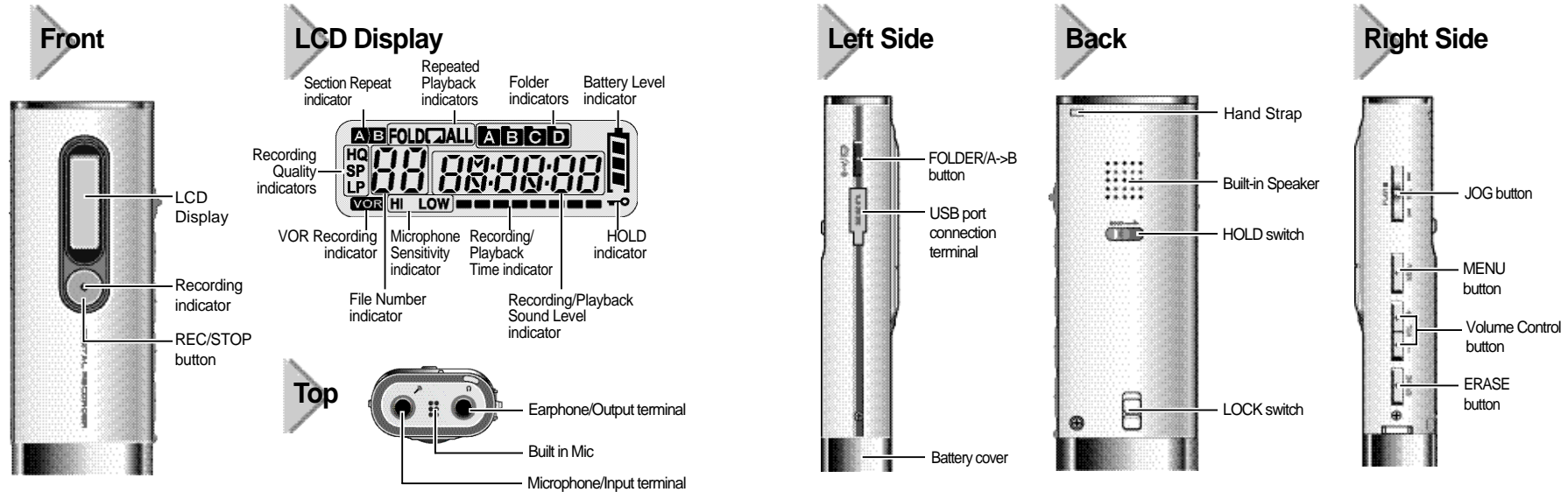
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Preparing



▶ Name of Each Part



Package Contents

3



Voice Recorder



Battery (AAA x 2)



Earphone



USB connection cable



DVR-Manager CD-ROM



Hand strap



User's Manual/Warranty



External device connection cable



Telephone recording adapter



Telephone connection cord



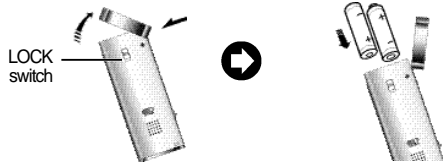
External Microphone

4

Preparing



▶ Installing the Battery

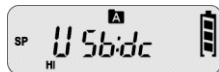


1. Open the battery cover.
 - Push the LOCK switch down and slide the Battery cover.
2. Insert two batteries with the correct polarity as indicated by the ⊕ and ⊖ symbols.

NOTE Recorded files will not be erased during replacing the battery.

▶ External Power Supply Setting

- 1 Select "DC" at the menu of USB Mode in General.
 - Pls. refer to the page 22.

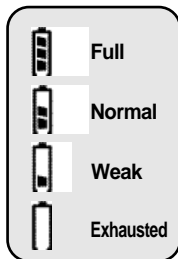


- 2 Connect the Recorder to PC by USB cable.
 - Recorder operates with PC power supply.

NOTE You can use external power supply by connecting DC adaptor (Option). When you record telephone speaking through USB power supply, there could be noise in telephone recording. Also VOR function could not operate normally. In this case, it is recommended to use DC adaptor (Option). (Refer to page 28)

Warning : In case of using DC adaptor, you must change into DC mode at USB mode. We are not liable for any malfunction from user's mistake.

Checking the battery level

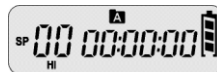


▶ Power ON/OFF

Power ON



Slide the HOLD switch in the ← direction, and press the REC/STOP button to turn the power on.



Power OFF



- **Automatic Power OFF** - The power automatically turns off when the recorder is not in use for more than one minute at STOP mode.
- **Manual Power OFF** - Slide HOLD switch in the direction of arrow → at STOP mode.

▶ Setting up HOLD Function

HOLD function locks all the button functions to prevent unwanted use and the discharge of the battery.

To Set HOLD



- Slide HOLD switch in the direction of arrow → during recording or playback.
- The symbol flickers at one second intervals, and HOLD is set.



To Release HOLD



- Slide HOLD switch in the direction of arrow ← during recording or playback.
- Flickering of the symbol disappears and HOLD is cancelled.



NOTE • HOLD switch performs locking function during playback or recording and manual power off function at STOP mode.

Preparing



▶ Adjusting the Volume

Volume can be adjusted from level 0 to 20 at STOP mode or during Playback.

▶ To Turn Up the Volume



Press **+** symbol of the VOL button.

- As the number on the display increases, the volume increases.

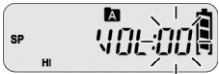


▶ To Turn Down the Volume



Press **-** symbol of the VOL button.

- As the number on the display decreases, the volume decreases.



▶ Selecting a Folder

Folder can be selected during playing back and recording.



Press **FOLDER/A->B** button at STOP mode.

- At every press of the button, Folder Indicator changes in the sequence of A, B, C and D.



Using



▶ Recording

To record, please position the built-in microphone toward the sound source.

▶ To Start Recording



Press **REC/STOP** button.

- Recording begins with the red light on the recording indicator. The display shows the current folder, file number, recording elapsed time and the recording sound level. The recorder automatically selects the file number next to the previously recorded file in current folder.



▶ To Continue Recording onto the Next File Number



To record the next file number while recording, press **JOG** button upward.

- The recorder stops recording onto the current file number and continues recording onto the next file number.



▶ To Stop Recording



Press **REC/STOP** button once again.

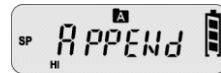
- The red light goes off and recording stops.

▶ To Add Recording



Press and hold **REC/STOP** button for more than 3 seconds at STOP mode.

- The recorder attaches the message to the current file number.



- To check the recording time remaining: Press the JOG button in while recording to display the recording time remaining.
- Press MENU button during recording in order to change the previous setting of VOR function. (For details, please refer to Page 17.)



▶ Playback

▶ To Start Playback

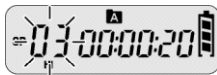
- 1 Select the folder which contains the file to play.**
 - For folder selection, please refer to page 7.



- 2 In stop mode, push up or pull down the JOG button to select the file number to play back.**



- For careful search, press the button briefly.
For quick search, press and hold the button for a few seconds.



- 3 Press JOG button in.**
 - The Recorder starts playback with the file number, playback elapsed time and playback sound level.



▶ To Stop Playback



- Press JOG button in again.**
- Now, press JOG button in again to resume playback from the previous stop position.

▶ Adjust Playback Speed

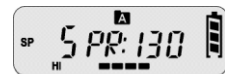
- 1 Press JOG button in.**
 - Playback starts.



- 2 Press MENU button three times.**
 - The default speed is set to '100' (Normal).



- 3 Push up or pull down the JOG button.**
 - Playback speed can be adjusted in 7 levels of <50, 70, 100(Normal), 130, 150, 175, 200> times.



▶ To Skip to Other Files during Playback



Press JOG button up briefly during playback.

- The Recorder stops playing current file and starts playing the next file.

Press JOG button down briefly during playback.

- The playback returns to the beginning of the current file.
If you press REW once again, it plays the preceding file.

▶ To Search the Desired Section within a File



Push up and hold JOG button during playback.


- The file is fast forwarded and playback resumes when you release the button.

Pull down and hold JOG button during playback.


- The file is rewinded and playback resumes when you release the button.



▶ Section Repeat Playback

- 1  Press FOLDER/A->B button at the starting point of the desired section.
 - 'A' appears and 'B' flickers.

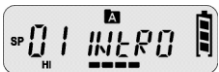


- 2  Press FOLDER/A->B button again at the ending point of the desired section.
 - 'B' appears and the section from 'A' to 'B' is repeated.
 - Press FOLDER/A->B button once again to cancel Section Repeat Playback and continue normal playback.



▶ Fast File Search (Intro Scanning)

-  Press and hold JOG button for more than 3 seconds at STOP mode.
- This function enables fast file search by playing back the first 7 seconds of each file.




- NOTE**
- Press REC/STOP button once during playback to display the remaining playing time.
 - Press MENU button once during playback to display the current Repeat mode setting which can be changed by JOG button. (For details, please refer to page 19.)
 - Press MENU button three times during playback to display 'SPR:100' on the LCD display. (For details, please refer to page 10.)
- If you are not changing the playback speed, press any button other than the JOG button.
- Press MENU button seven times during playback to display the playback elapsed time.

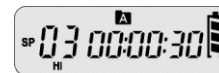
▶ Deleting the Recorded Files


- To Delete a Recorded File**
This function deletes a selected file.

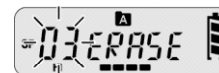
- 1 Select the folder that contains the file to be deleted.
 - For folder selection, please refer to page 7.




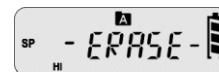
- 2  In stop mode, push up or pull down the JOG button to select the recorded file to delete.
 - For careful search, press the button briefly.
 - For quick search, press and hold the button for a few seconds.



- 3  Press ERASE button briefly.
 - The selected file number flickers and the selected file is played back.



- 4  Press ERASE button again briefly.
 - The selected file is deleted and file numbers are automatically rearranged.



- NOTE**
- The ERASE operation is cancelled if any other button is pressed during the selected file number is flickering or the ERASE button is not pressed again in 5 seconds.



▶ Deleting the Recorded Files (continued)

▶ To Delete All the Files in the Selected Folder

This function deletes all the recorded files in the selected folder.

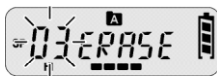
1 Select a folder to be deleted.

- For folder selection, please refer to page 7.



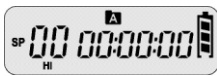
2 Press ERASE button more than 5 seconds.

- The current file number flickers and the current file is played back.



3 Press and hold ERASE button for more than 5 seconds.

- All the recorded files in the selected folder are deleted.



- The ERASE operation is cancelled if any other button is pressed during the selected file number is flickering or the ERASE button is not pressed again in 5 seconds.

▶ To Delete All the Recorded Files

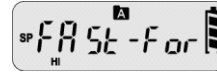
This function deletes all the recorded files in four folders.

1 Press MENU button once at STOP mode.



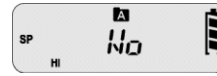
2 Press and hold ERASE button for more than 5 seconds.

- FAST-FOR is displayed.



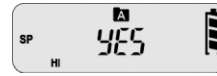
3 Press JOG button in.

- NO is displayed.



4 Select 'YES' by wheeling JOG button upward or downward and press JOG button in.


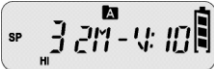
- No : Not to delete all files.
- YES : To delete all files.






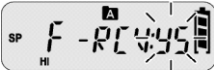
▶ Recovery of Erased File

This function enables to recovers the erased file by mistake of user.

1  **Press MENU button nine times at STOP mode.** 

- Information of memory & version appears.

2  **Press FOLDER/A->B button for more than 5 seconds.** 

3  **Press JOG button in after selecting 'YS' by wheeling JOG button upward or downward.** 


- Search appears and recovery of files works. Erased files are recovered at the original folders.
- YES: To recover erased files
- No: Not to recover erased files

- NOTE**
- It is highly recommend to operate recovery function immediately after erasing files.
 - In case of using recording function after erasing files, some files cannot be recovered.


▶ Convenient Functions

▶ To Select the Recording Quality

Recording modes of HQ/SP/LP can be selected and the recording time can be adjusted according to the recording mode.

1  **Press MENU button once at STOP mode.** 

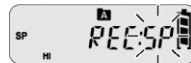
- HQ, SP or LP is displayed.

2  **Push up or pull down the JOG button to select recording sound quality.**

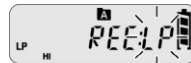
- HQ (high quality mode): Recording time: Approx. 5 hours and 30 minutes



- SP (standard quality mode): Recording time: Approx. 7 hours and 40 minutes



- LP (long recording mode): Recording time: Approx. 16 hours and 40 minutes




- NOTE**
- To complete the selection and exit from the setting menu, please wait for a moment or press buttons other than MENU and JOG buttons after setting the desired mode.
 - To go on to the next mode setting, please press MENU button once again after setting the desired mode.





▶ Convenient Functions (continued)

▶ To Select VOR Recording

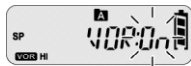
With this mode, the recording starts only when an audible sound exists and pauses when no sound is detected.

1  **Press MENU button twice at STOP mode.**
 ● VOR ON or VOR OF is displayed.



2  **Push up or pull down the JOG button to select VOR recording.**

- VOR ON: Select to use VOR recording function.



- VOR OF: Select not to use VOR recording function.



- NOTE**
- To complete the selection and exit from the setting menu, please wait for a moment or press buttons other than MENU and JOG buttons after setting the desired mode.
 - To go on to the next mode setting, please press MENU button once again after setting the desired mode.

▶ To Select Microphone Sensitivity

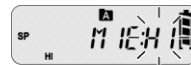
With this function, microphone sensitivity can be adjusted according to the distance to the sound source and the ambient noise level.

1  **Press MENU button three times at STOP mode.**
 ● MIC HI or MIC LO is displayed.

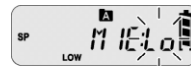


2  **Push up or pull down the JOG button to select Microphone sensitivity.**

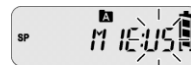
- MIC HI: Select in case the sound source is distant or the ambient noise level is low.



- MIC LO: Select in case the sound source is close or the ambient noise level is high.



- MIC US: Select this to manually set the microphone's sensitivity.
 ※ If the JOG button is pushed straight down while in this mode, MIC SENSITIVITY mode is displayed and you can use the Hearing function. (Microphone sensitivity can be adjusted in 15 steps from -4 to +2dB in 2 step increments.)



- NOTE**
- To complete the selection and exit from the setting menu, please wait for a moment or press buttons other than MENU and JOG buttons after setting the desired mode.
 - To go on to the next mode setting, please press MENU button once again after setting the desired mode.



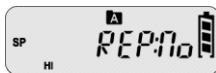
▶ Convenient Functions (continued)

▶ To Set up Repeat Playback

With this function, the desired file can be played repeatedly.

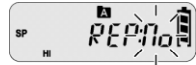
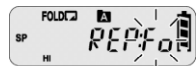
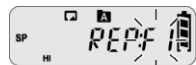
- 1 Press **MENU** button four times at **STOP** mode.

- REP ONE, FOLDER, ALL or NONE is displayed.



- 2 Push up or pull down the **JOG** button to select a desired Repeat Mode.

- REP ONE: Repeat one(current) file.
- REP FOLDER: Repeat all the files in one(current) folder.
- REP ALL: Repeat all the files in the Recorder.
- REP NONE: No repeat.



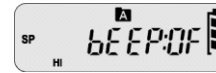
- To complete the selection and exit from the setting menu, please wait for a moment or press buttons other than MENU and JOG buttons after setting the desired mode.
- To go on to the next mode setting, please press MENU button once again after setting the desired mode.

▶ To Set up Beeping

Upon setting this function, the recorder sounds "beep" at every press of the button.

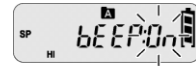
- 1 Press **MENU** button five times at **STOP** mode.

- BP ON or BP OF is displayed.

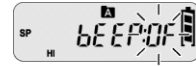


- 2 Push up or pull down the **JOG** button to select BEEP ON or OFF mode.

- BP ON: To sound beep.



- BP OFF: Not to sound beep.




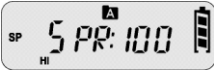
- To complete the selection and exit from the setting menu, please wait for a moment or press buttons other than MENU and JOG buttons after setting the desired mode.
- To go on to the next mode setting, please press MENU button once again after setting the desired mode.




▶ Convenient Functions (continued)

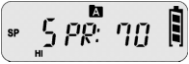
To Set up Playback Speed

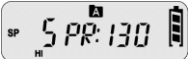
Playback Speed can be adjusted to the fast, slow mode.

1  **Press MENU button six times at STOP mode.** 

- SPR:50, SPR:70, SPR:100, SPR:130, SPR:150, SPR:175 or SPR:200 is displayed.

2  **Push up or pull down the JOG button to select Playback speed.**


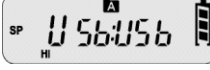





- NOTE**
- To complete the selection and exit from the setting menu, please wait for a moment or press buttons other than MENU and JOG buttons after setting the desired mode.
 - To go on to the next mode setting, please press MENU button once again after setting the desired mode.

To Set up USB Mode


When USB cable is connected to PC, it can be used as USB connection or DC Power supply.

1  **Press MENU button seven times at stop mode.** 

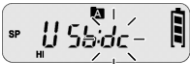
- USB or DC is displayed.

2  **Push up or pull down the JOG button to select USB mode.**

- USB USB: USB connection mode.



- USB DC: Power Supply.



- NOTE**
- To complete the selection and exit from the setting menu, please wait for a moment or press buttons other than MENU and JOG buttons after setting the desired mode.
 - To go on to the next mode setting, please press MENU button once again after setting the desired mode.



▶ Convenient Functions (continued)

To Set up Listen & Repeat

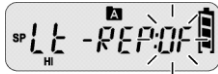
When repeat playback is enabled, you can set up listen & repeat function.
When earphone is connected, you can hear your voice through earphone.

1



Press **MENU** button eight times at **STOP** mode.

- LT-REP ON or LT-REP OF is displayed.

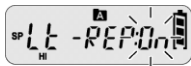


2

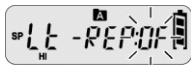


Push up or pull down the **JOG** button to select Listen & Repeat mode.

- LT-REP ON: Listen & Repeat mode is enabled.



- LT-REP OFF: Listen & Repeat mode is disabled.



- To complete the selection and exit from the setting menu, please wait for a moment or press buttons other than MENU and JOG buttons after setting the desired mode.
- To go on to the next mode setting, please press MENU button once again after setting the desired mode.

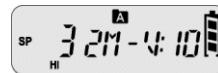
How to Check Information

You can check memory capacity and version information.



Press **MENU** button nine times at **STOP** mode.

- Memory & Version information is displayed.



- To complete the selection and exit from the setting menu, please wait for a moment or press buttons other than MENU and JOG buttons after setting the desired mode.
- To go on to the next mode setting, please press MENU button once again after setting the desired mode.

Connecting to an External Device

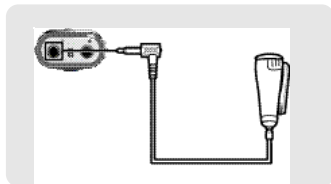


▶ Recording through an External Microphone

You can record the message even in action by mounting the external microphone on your collar.

Connect external microphone to Voice Recorder.

- Plug the external microphone into the Microphone/Input terminal of the Recorder.



To Start Recording



Press REC/STOP button.

- Voice is recorded through the external microphone.

To Finish Recording



Press REC/STOP button again.

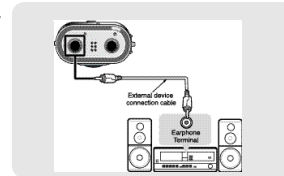
- Recording stops.

▶ Connecting to an Audio System

To Record Contents of the Audio into the Voice Recorder

Connect the Voice Recorder to the audio system.

- Connect the Microphone/Input terminal to the Earphone terminal of the audio system using the supplied external device connection cable.



To Start Recording



Press REC/STOP button and the play button of the audio system simultaneously.

- The Voice Recorder starts recording the audio contents.

To Finish Recording



Press REC/STOP button and the stop button of the audio system simultaneously.

- The Voice Recorder stops recording.



- Adjust the recording sound volume with the volume control of the audio system.
- Recording quality may be affected by the performance of the external device.

Connecting to an External Device

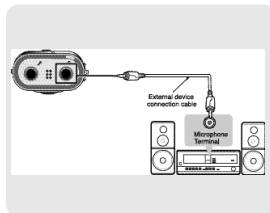


▶ Connecting to an Audio System (continued)

To Record Contents of the Recorder into an Audio System.

Connect the Voice Recorder to the audio system.

- Connect the Earphone/Output terminal to the microphone terminal of the audio system using the supplied external device connection cable.



To Start Recording



- Select the file to be recorded.**
 - To see how to select a file, please refer to page 9.
- Press JOG button of the Voice Recorder and the record button of the audio system simultaneously.**
 - The selected file in the Voice Recorder is recorded into the audio system.

To Finish Recording

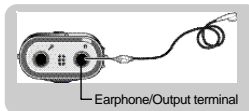


- Press JOG button of the Voice Recorder and the stop button of the audio system.**
- Recording stops.



- The recording sound volume can be adjusted using VOL button of the Voice Recorder.
- Recording quality may be affected by the performance of the external device.

▶ Listening through an Earphone



Plug the earphone to the Earphone/Output terminal.

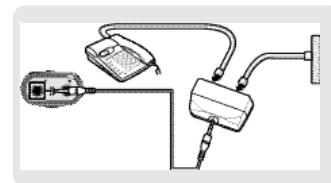
- The playback sound is automatically routed to the earphone. The playback volume can be adjusted by ⊕ and ⊖ of VOL button.

▶ Recording a Telephone Message

Telephone messages can be recorded on the Voice Recorder.

Connect the Voice Recorder to the telephone.

- Using the external device connection cable, connect the Microphone/Input terminal of the Voice Recorder and the telephone recording adapter as shown in the picture.



To Start Recording



Press REC/STOP button during the telephone conversation.

- The Voice Recorder starts recording the conversation.

To Finish Recording



Press REC/STOP button again.

- Recording stops.



- The digital telephone cannot be connected to the Voice recorder.
- To record only when you talk on the telephone, please select VOR recording and then press REC/STOP button. (For details, please refer to page 17.)
- If the VOR function does not work properly, set the MIC sensitivity low. (For details, please refer to page 17.)
- The input volume of the recorded sound is affected by the telephone and phone line condition. If input volume is too low, disable the VOR function. (For details, please refer to page 18.)
- When you record telephone speaking through USB power supply, there could be noise in telephone recording. Also VOR function could not operate normally. In this case, it is recommended to use DC adaptor (Option). (Refer to page 5)

Connecting to an External Device



▶ Connecting to a PC

DVR-Manager software provides the functions for connection, playback, recording and editing of recorded files.

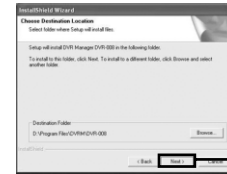
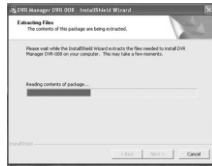
Installation of DVR-Manager

DVR-Manager should be installed to PC prior to connecting Voice Recorder to PC.

System Requirements

Computer : IBM-compatible, Intel Pentium (or better) based with USB port support
Memory : More than 64MB of RAM
OS : Windows 98/Me/2000/XP
Hard Disk : More than 50MB space
For Playing : Sound card and speaker
For Recording : Sound card and microphone

When you insert DVR-Manager CD into CD-ROM drive, the language selection window appears.



● Installation has been completed and the shortcut icon appears.

Connecting to an External Device



▶ Connecting to a PC(continued)

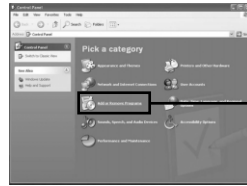
Installation of Driver

Upon connecting Voice Recorder and PC using USB connection cable after execution of DVR-Manager, driver is automatically installed. In case driver is not installed automatically, specify another file.

Note!! Be sure to install after putting off the batteries.



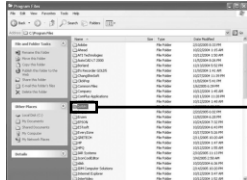
1 Click : Start > Settings > Control panel



2 Click

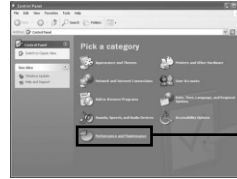


3 Click

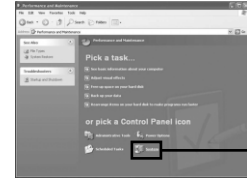


4 Click

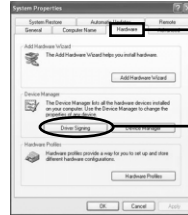
6 Click : Start > Settings > Control panel



7 Click

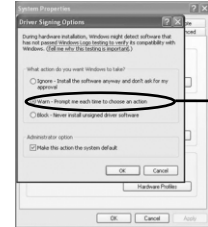


8 Click



9 Click

10 Click



11 Click

5 Install DVR-Manager after rebooting PC and reboot once again.

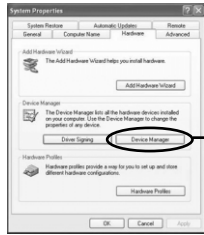
Connecting to an External Device



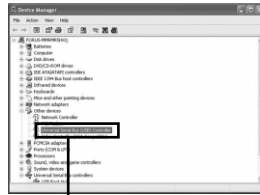
▶ Connecting to a PC(continued)

Installation of Driver(continued)

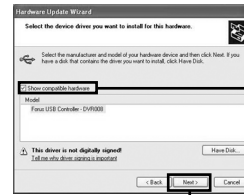
12 Connect the Recorder to PC by USB cable.



13 Click



14 Select the part of "?" or "!" mark. Press the right button of mouse and select "Update"



19 Click

20 Click



21 Click

When you do Drive installation in Windows XP, be sure to "Continue(C)" button.
If you click "Stop(S)" button, program connection will not be available.



15 Click

16 Click



17 Click

18 Click




22 Click


Connecting to an External Device



▶ Connecting to a PC(continued)

Using online Help

Instruction for use is provided in detail in Help.
If installation is finished, shortcut icon is displayed .

- 1 **Double click the shortcut icon** .

 - DVR-Manager is executed.

- 2 **Select Help of main menu.**

 - Help appears.

Multi-language Support

In case of managing files in PC, you can use conveniently because multi-language for file name or error message is supported.

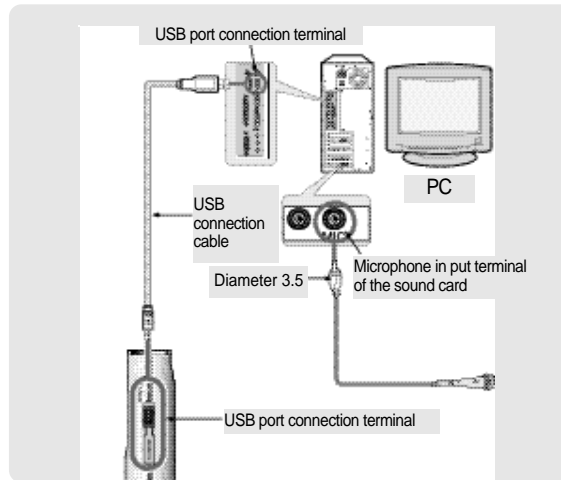


DVR-Manager Deleting

- Select menus in the sequence of : Start > Settings > Control panel > Add/Remove program > DVR-Manager DVR-XXX Ver.1.0 > Add/Remove.

Connection of Voice Recorder to PC

First connect the Voice Recorder to PC for the better use of the Voice Manager Pro software.



- After connecting the Voice Recorder to PC, try not to touch the Voice Recorder since it may cause the malfunction of the device.
- If you have connected the USB cable while the battery is installed, you must first press REC/STOP to power on the unit.



▶ Precautions

Important information on safe and efficient operation.
Read this information before using your voice recorder.

For the unit

- 1. Do not drop the unit or give a shock to the unit.
It may cause a malfunction.**
- 2. Do not leave the unit in such a location as described below.**
 - A place of very high temperature (60°C)
 - A place subject to direct sunlight or near heat sources
 - A car with its windows closed (especially in summer)
 - A place subject to excessive moisture like a bathroom
 - A place subject to excessive dust
- 3. Do not apply heavy forces to the LCD (Liquid Crystal Display) unit,
or it may cause breakage or abnormal display taking into account
the properties of liquid crystal.**
- 4. If you place cards using magnetism such as cash cards or
transportation pass cards near to the speaker of the unit,
the magnetism may be transformed due to magnetic influence
so that the magnetic cards cannot be used any more.**
- 5. Our company does not reimburse you for any loss from the use
of the Voice recorder or any demand of indemnity from a third party.**
- 6. Message loss due to malfunctions, repairs, etc is not a responsibility
of ours. Please understand this.**

Purchasing Tip of Adaptor:

You can buy any adaptor easily to meet DC 4.5V ~ 6V 300mA and plug size 3.5 pie at the market.

For the Battery

- 1. Do not short-circuit, disassemble or heat the battery, or do not put
the battery into a fire. Electrolyte such as an alkaline solution may
flow out, so you may get it in your eyes, or it may cause the generation
of heat, or the breakdown of the battery.**
- 2. When the skin or clothes are stained with electrolyte such as an
alkaline solution, wash the stain out with water immediately.
If you get it in your eyes, seek immediate medical treatment after
washing out the area of the eye with water.**
- 3. Do not use the different kind of batteries together.**
- 4. When the unit is not in use for a long time, remove the battery
from the unit.**

For your safety

- 1. Do not repair, disassemble or modify this unit by yourself.**
- 2. If smoke or deformation occurs due to the generation of heat,
remove the battery from the unit immediately.**
- 3. Do not use this unit in an airplane or place where the use of
electronic machines are prohibited.**
- 4. Do not use during you are driving or walking.
It may cause an accident.**



Troubleshooting

Check the following items before asking a technical support.

When using Voice Recorder

LCD doesn't work.

- 1 Is the battery's power exhausted? ▶ Replace the battery with a new one. (Refer to page 5)
- 2 Is the battery installed to the correct polarity? ▶ Install the battery to the correct polarity.

Recording doesn't work.

- 1 Is the device locked by the HOLD key? ▶ Release the HOLD key.
- 2 Has the memory or file numbers been used up? ▶ Delete unnecessary files. (Refer to pages 12~14)
- 3 Is the battery's power exhausted? ▶ Replace the battery with a new one. (Refer to page 5)

Playback doesn't work.

- 1 Is the device locked by the HOLD key? ▶ Release the HOLD key
- 2 Is there any recorded file? ▶ Check the folder and file numbers.
- 3 Is the battery's power exhausted? ▶ Replace the battery with a new one. (Refer to page 5).

No sound comes from the speaker.

- 1 Is the volume set to '0'? ▶ Adjust the volume.(Refer to page 7)
- 2 Is the earphone plugged in? ▶ Pull out the earphone completely.

The earphones do not work.

- 1 Is the volume set to '0'? ▶ Adjust the volume.(Refer to page 7.)
- 2 Is the earphone plugged in properly? ▶ Plug the earphone in properly.

When using DVR-Manager

REC/PLAY icons are inactive.

- 1 Has the sound card been installed? ▶ Install the sound card first and then reinstall the 'DVR-Manager' software.

Can't hear the voice due to noise.

- 2 Is the volume set excessively high? ▶ Adjust the volume of the 'Voice Manager Pro', since the excessively high volume may cause noise.

Can't record with an external microphone.

- 1 Is the external microphone connected to the PC (Sound Card)? ▶ Connect the external microphone to the sound card and start recording.(Refer to page 36)
- 2 Does the MIC IN (Microphone) become active at the Recording Control Window, when you click : Control Panel > Multimedia > Audio > Recording? ▶ Cancel Mute function, if the unit is in the mode, and select the MIC IN.



Specifications

Model name	VOICE RECORDER	
Continuous recording time	32MB	HQ 5hours and 30 minutes / SP 7hours and 40 minutes /
		LP 16hours and 40 minutes
	64MB	HQ 11hours and 00 minutes / SP 15hours and 20 minutes /
		LP 33hours and 20 minutes
Maximum number of recording files	99 files per folder x 4 folders = 396 files	
Dimensions	32 x 16 x 86.5mm	
Weight	33.3g(excluding the battery weight of 24g)	
Power Source	Two DC 3V (Size "AAA", Alkaline) batteries	
Battery life	Recording:approx. 12 hours / Playback:approx. 12 hours, E/P Vol.16	
Recording medium	Built-in Flash Memory	
Effective maximum output	Speaker: 25mW	
Frequency range	500Hz ~ 3.5KHz	
PC interface	USB (Universal Serial Bus)	
Input	Internal	Omni-directional electret condenser microphone(Mono)
	External	Plug-in electret condenser microphone(φ 6Mono)
Output	Earphones	Earphones (φ 3.5/mono/16Ω)
	Speaker	Diameter 20mm, 16Ω
Operational condition	Temperatures: 0 to 40℃	
Accessories	2 AAA battery, Earphone, USB connection cable, DVR-Manager CD, User's manual/Warranty, External device connection cable, Telephone recording adapter, Telephone connection cord, External microphone, Hand strap	

Warranty

Product	DIGITAL RECORDER	Model		
Assurance period	1 YEAR	Item	Sales date	yy mm dd
Customer	Address	tel		
	Name	signature		
Sales agency	Address	tel		
	Agency name	signature		

FCC 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.

CAUTION : Changes or modifications not expressly approved by the manufacturer responsible for compliance could void the user's authority to operate the equipment.