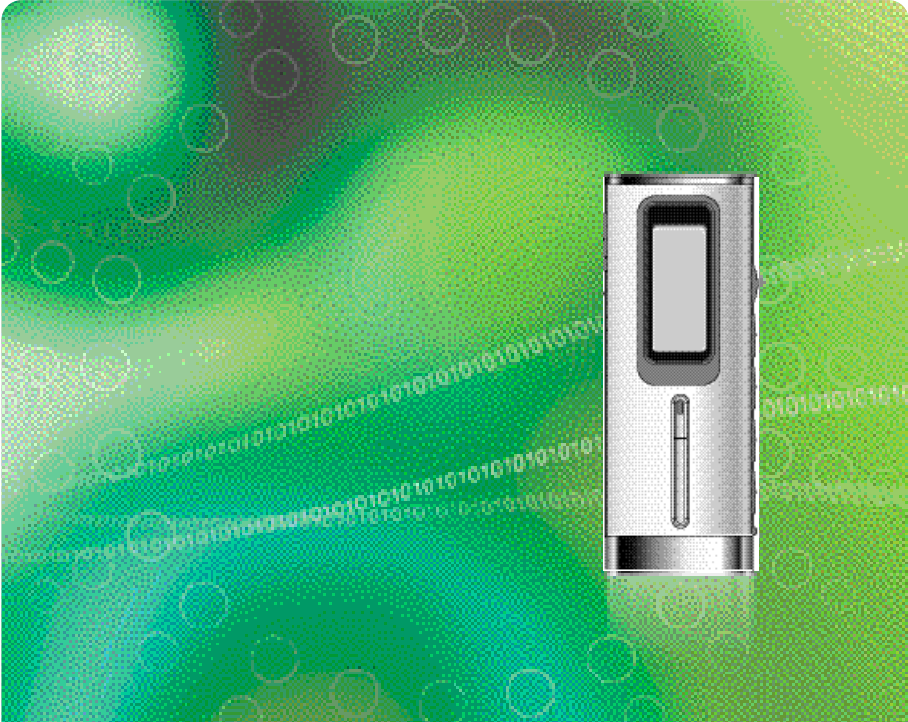


Voice Recorder

Made in korea

Version 2005.2



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 : 130 hours and 20 minutes(256MB).

■ Recording Quality Mode

XQ/HQ/SP/LP

■ VOR Recording

The recorder operates only when an audible sound exists and it enables to use efficient max. recording time.

■ Microphone Sensitivity

Microphone sensitivity can be adjusted according to the distance from the sound source and the ambient noise level.

■ Additional Recording (Append)

You can add the recording to the same file number without affecting the original.

■ Power Supply Selection

For power, you can use two ways, DC supply and USB supply.

■ Playback Speed : 7 steps.

■ LCD Backlight : 7 colors selectable.

■ Clock Setting

You can set the current time (year/month/day/hour/minute/second).

■ Recovery of erased files

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

■ Alarm

If you set the desired time, alarm sounds at the time.

■ Reserved Recording Time

If you set the desired time, recording starts from the time.

■ File Search (Intro Scan)

Intro scan function consecutively plays the first 7 seconds of each file for easy search of the recorded messages.

■ Hearing Aid

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

■ World-wide Language Support for File name

■ USB Digital Interface

■ Telephone Message Recording

■ Repeat Playback

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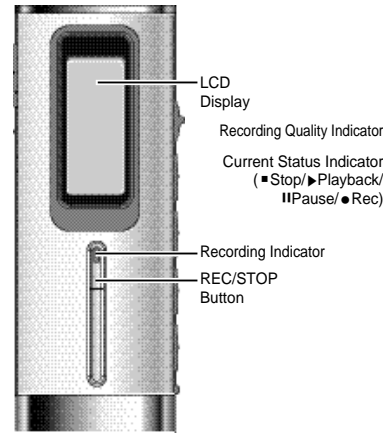
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Preparing

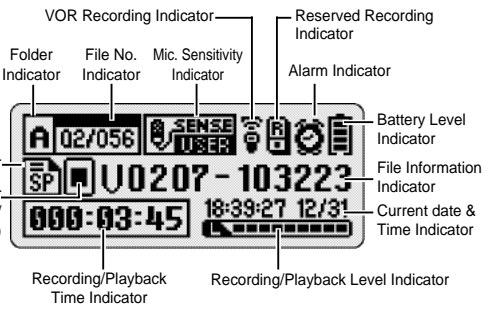


Name of Each Part

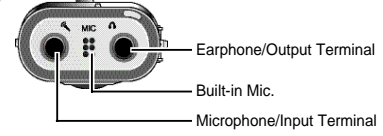
Front View



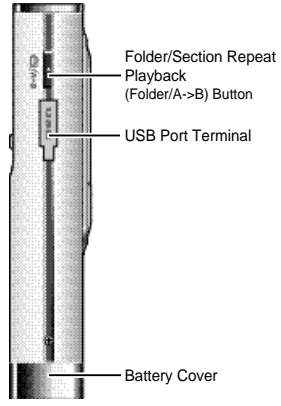
LCD Display



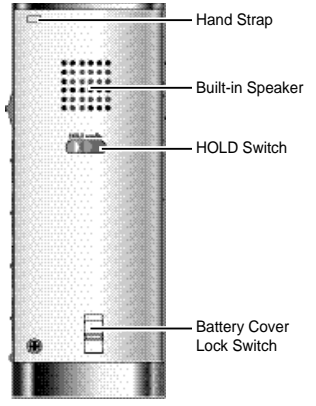
Top View



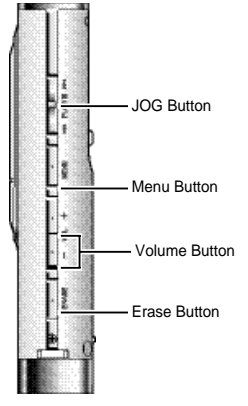
Left View



Back View



Right View



Package Contents

3

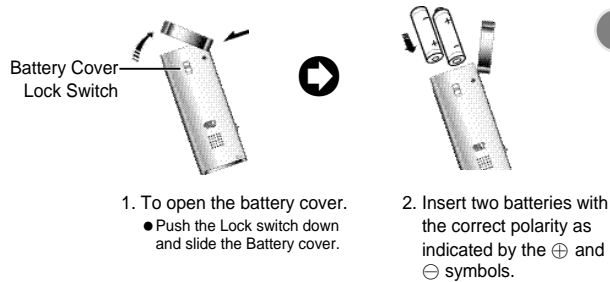


4

Preparing



▶ Putting the battery

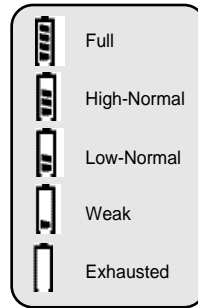


1. To open the battery cover.
 • Push the Lock switch down and slide the Battery cover.

2. Insert two batteries with the correct polarity as indicated by the ⊕ and ⊖ symbols.

Note Recorded files will not be erased during replacing the batteries.

▶ Checking the batteries Level



▶ Power ON/OFF

Power ON



Slide HOLD switch in the direction, and press the REC/STOP button.



Power OFF



- Automatic Power OFF - The power automatically turns off when the recorder is not in use for more than 1 minute at stop mode.
- Manual Power OFF - Slide HOLD switch in the direction at stop mode.



▶ External Power Supply

1 Select "DC" at the menu of USB Mode in General.

- Pls. refer to the page 17 ~ 18.



2 Connect the Recorder to PC by USB cable.

- Recorder operates with PC power supply.

▶ HOLD Setting

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

To Set HOLD



Slide HOLD switch in the direction during recording or playback.

- flickers and HOLD is set.

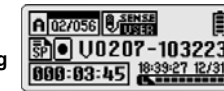


To Release HOLD



Slide HOLD switch in the direction during recording or playback.

- disappears and HOLD is released.



Note HOLD switch performs locking function during playback or recording and manual power off function at stop mode.

Preparing



▶ Volume Adjustment

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 LCD display increases, the volume increases.



▶ To Turn Down the Volume



Press '-' symbol of the VOL button.

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



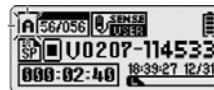
▶ Folder Selection

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

In recording, 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 LCD 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.

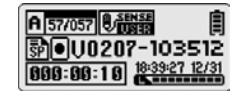


▶ To Record into the next file number during recording



Press JOG button upward while recording.

- The recording stops at the current file number and continues recording into 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 REC/STOP button for more than 3 seconds at stop mode.

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



- Press JOG button in while recording to display the recording remaining time and if you press once more, the current recording time is displayed.
- Press MENU button during recording in order to change previous setting of VOR function (Pls. refer to Page 20).

Using



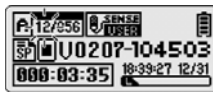
▶ Playback

To Start Playback

- 1** Select the folder to playback.
● Pls. refer to page 7.



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

To playback other recorded file during playback of current file



- Wheel JOG button upward shortly during playback.**
● The playback of current file stop and playback of next file starts.
- Wheel JOG button downward shortly during playback.**
● The playback of previous file starts.




Press REC/STOP button in while playback to display the playback remaining time and if you press once more, the current playback time is displayed.

Using




▶ 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 then, normal playback continues.




▶ Intro Scan

- 1  Press 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.



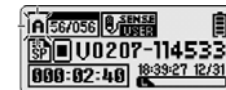
 **Note** For playback the file during scanning, press JOG button in.


▶ Deleting Recorded File

▶ To delete a recorded file

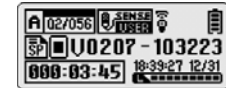
- 1 Select the folder that contains the file to be deleted.

- Pls. 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.

Using



▶ Deleting Recorded File (continued)

To delete all the files in the selected folder

1 Select a folder to be deleted.

- Pls. refer to page 7.



2 Press ERASE button more than 5 seconds.

- The selected folder flickers and 1-FOLDER and ERASE is displayed.



3 Press ERASE button for more than 5 seconds again.

- All the selected folder is deleted.



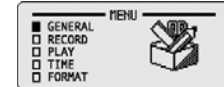
Note The ERASE operation is cancelled if any other button is pressed during the selected file number is flickering or the ERASE button is not pressed again in 5 seconds.

▶ Recovery of Erased File

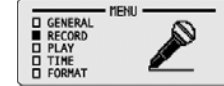
This function enables to recovers the erased file by mistake of user.

To recover the erased file

1 Press MENU button at stop mode.

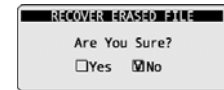


2 Select 'RECORD' by wheeling JOG button upward or downward.



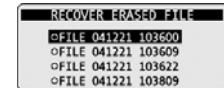
3 Press FOLDER/A->B button for more than 5 seconds.

- Recovery screen is displayed



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

- Recovery file list is displayed.
- In the Recovery file list, recorded date, time and erased file name is displayed.



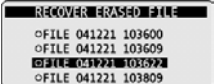
Using



▶ Recovery of Erased File (Continued)

To recover the erased file

5 Press JOG button in after selecting the file to recover by wheeling JOG button upward or downward.



6 Press JOG button in after selecting the folder location to save by wheeling JOG button upward or downward

- The selected file is saved in the selected folder.



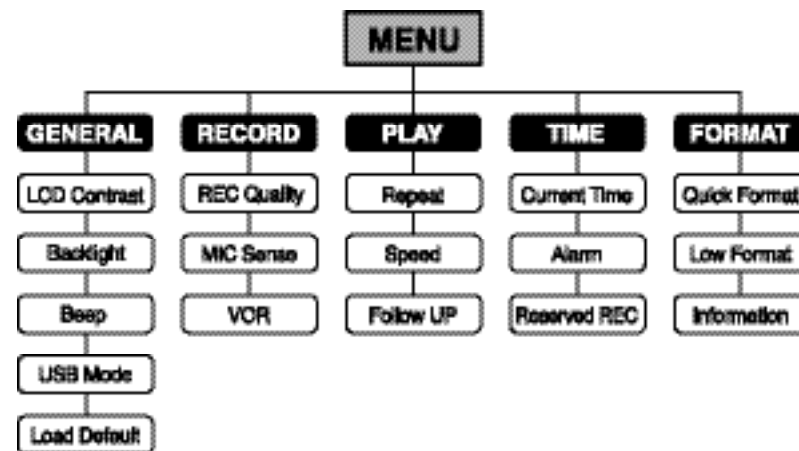
7 To recover other files, follow up the procedure of the above 5, 6.

- Note**
- If you wait for a while or press other button than JOG button after recovery, the recovery function is finished.
 - In recovery file list, max. 16 files are displayed on LCD at a time. If the selected file is recovered, the other file which was not showed is displayed automatically.
 - In case of erasing by using Low Format function, the recovery function is not available.
 - In case of using recording function after erasing file, some files cannot be recovered.

Menu



▶ Menu Structure




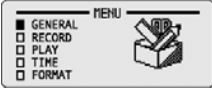

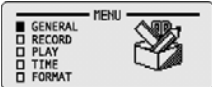



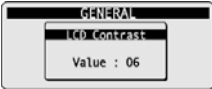

The way to operate Menu

1. Press MENU button at stop mode.
2. Press JOG button in after selecting the item to be desired by wheeling JOG button upward or downward.
3. Press JOG button in after selecting the sub-item to be desired by wheeling JOG button upward or downward.
4. Set up the sub-item by wheeling JOG button upward or downward.
5. To exit from MENU, press MENU button.

Menu

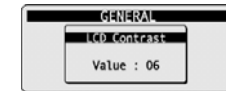


General Setting

-  Press MENU button at stop mode or playback status.

-  Press JOG button in at the status which 'GENERAL' is selected.

-  Press JOG button in after selecting the sub-item to be desired by wheeling JOG button upward or downward.

-  Set up the sub-item by wheeling JOG button upward or downward.

-  To exit from MENU, press MENU button.

LCD Contrast Adjustment

It's available to adjust contrast from 00 to 10.



Backlight Adjustment

You can select among Red, Green, Blue Yellow, Cyan, Magenta and White.



Beep Sound ON/OFF

It enables to make beep sound whenever you press button.



USB Mode Setting

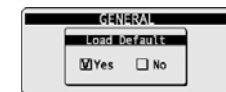
In case of connecting Recorder to PC by USB cable.

- USB : For USB power supply
- DC : For DC power supply



Load Default Setting


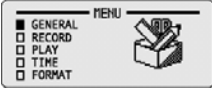

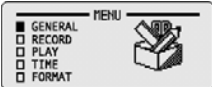



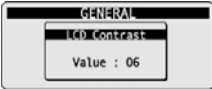

You can set initialization in purchasing Recorder.



Menu

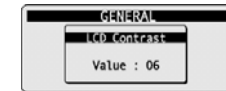


General Setting

-  Press MENU button at stop mode or playback status. 
-  Press JOG button in at the status which 'GENERAL' is selected. 
-  Press JOG button in after selecting the sub-item to be desired by wheeling JOG button upward or downward. 
-  Set up the sub-item by wheeling JOG button upward or downward. 
-  To exit from MENU, press MENU button.

LCD Contrast Adjustment

It's available to adjust contrast from 00 to 10.



Backlight Adjustment

You can select among Red, Green, Blue Yellow, Cyan, Magenta and White.



Beep Sound ON/OFF

It enables to make beep sound whenever you press button.



USB Mode Setting

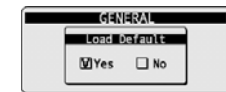
In case of connecting Recorder to PC by USB cable.

- USB : For USB power supply
- DC : For DC power supply



Load Default Setting


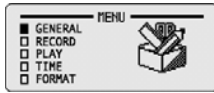

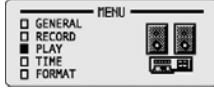





You can set initialization in purchasing Recorder.



Menu



▶ Playback Setting

-  Press MENU button at stop mode or playback.

-  Press JOG button in after selecting 'PLAY' by wheeling JOG button upward or downward.

-  Press JOG button in after selecting sub-item by wheeling JOG button upward or downward.

-  Set the sub-item by wheeling JOG button upward or downward.

-  Exit from MENU by pressing MENU button.

Repeat Playback Setting

- All : For all recorded files
- Folder : For 1 Folder
- File : For 1 recorded file
- None : No repeat



Playback Speed Adjustment

Playback speed can be adjusted in 7 levels as follows.

- SPR: 50, 70, 100(normal), 130, 150, 170, 200%.



Hearing and Follow-up

You can hear and follow-up because the concerned time has no sound after repeat section playback is made.

- On : For this function
- Off : No for this function



Menu

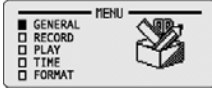



▶ Time Setting

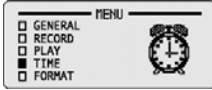

To set the current time

If you set the current time, you can see the time always and also, you can set the function of alarm & reserved recording.

1 Press MENU button at stop mode.

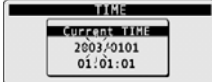



2 Press JOG button in after selecting 'TIME' by wheeling JOG button upward or downward.

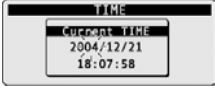



3 Press JOG button in at the condition to be selected for 'Current Time'.

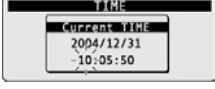

- It enables the condition of the current time set-up menu and year flickers.




4 Press JOG button in after selecting 'YEAR' by wheeling JOG button upward or downward.



5 Set Month, Day, Hour, Minute, Second by repeating the above # 4.



6 Exit from MENU by pressing MENU button.



Menu



▶ Time Setting (Continued)

To set Alarm

- 1** Press MENU button at stop mode.
- 2** Press JOG button in after selecting 'TIME' by wheeling JOG button upward or downward.
- 3** Press JOG button in after selecting 'Alarm' by wheeling JOG button upward or downward.
 ● The current time set-up is made and year flickers.
- 4** Press JOG button in after selecting 'On' by wheeling JOG button upward or downward.
 ● Folder indicator A flickers.
- 5** Press JOG button in after selecting beep sound by wheeling JOG button upward or downward.
 ● A → B → C → D → Beep is displayed.

- 6** Press JOG button in after selecting desired file by wheeling JOG button upward or downward.
- 7** Press JOG button in after setting up 'Hour' by wheeling JOG button upward or downward.
- 8** Press JOG button in after setting up 'Minute' by wheeling JOG button upward or downward.
- 9** Exit from MENU by pressing MENU button.

To release Alarm

- Press MENU button and select 'Off' at TIME>Alarm.
 ● Alarm mark disappears and this function is released.

Menu



▶ Time Setting (Continued)

To set reserved recording

- 1** Press MENU button at stop mode.
- 2** Press JOG button in after selecting 'TIME' by wheeling JOG button upward or downward.
- 3** Press JOG button in after selecting 'Reserved REC' by wheeling JOG button upward or downward.
- 4** Press JOG button in after selecting 'On' by wheeling JOG button upward or downward.

 - Hour flickers.
- 5** Press JOG button in after selecting 'Hour' by wheeling JOG button upward or downward.

- 6** Press JOG button in after selecting 'Minute' by wheeling JOG button upward or downward.
- 7** Press JOG button in after setting up 'Recording time' by wheeling JOG button upward or downward.

 - Reserved recording time range is 10 ~ 240 minutes.
- 8** Exit from MENU by pressing MENU button.

 - If reserved recording is completed, the reserved recording indicator displayed.

To release reserved recording function

Press MENU button and select 'Off' at TIME>Reserved REC.


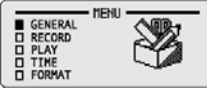

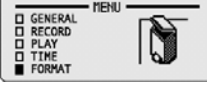

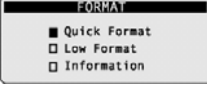





Reserved recording starts after setting this function at power-off of recorder.

Menu



Format Setting

-  Press MENU button at stop mode or playback.

-  Press JOG button in after selecting 'FORMAT' by wheeling JOG button upward or downward.

-  Press JOG button in after selecting sub-item by wheeling JOG button upward or downward.

-  Set the sub-item by wheeling JOG button upward or downward.

-  Exit from MENU by pressing MENU button.

Quick Format Setting

This enables to recover file in needed if you erase the recorded file.

- Yes : For erasing all recorded files.
- No : Not for erasing all recorded files.



Low Format Setting

In case of erasing the recorded file by using this function, the recorded file is erased completely and it's not possible to recover.

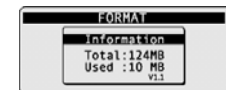
- Yes : For erasing all recorded files.
- No : Not for erasing all recorded files.



※Note : Please keep in you mind that the erased file by using this Low Format function cannot be restored.

Information Review

You can check full memory capacity, used memory capacity, version.



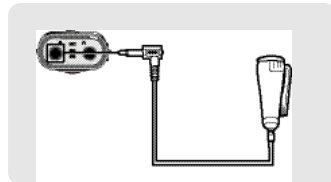
Connecting to an External Device



▶ Recording through an External Microphone

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.

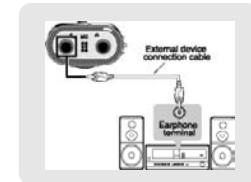
- Recording stops.

▶ Connecting to an Audio System

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.

- Recording stops.



- 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

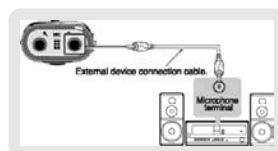


▶ Connecting to an Audio System(continued)

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



- 1 **Select the file to be recorded.**
 - To see how to select a file, please refer to page 9.
- 2 **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

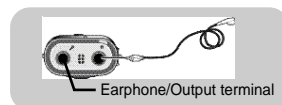


- Press JOG button of the Voice Recorder and the stop button of the audio system.**
- Recording stops.



- 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.

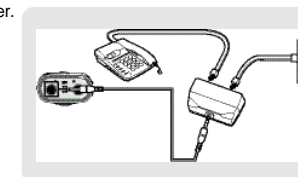
- The playback sound is automatically routed to the earphone. The playback volume can be adjusted by '+' and '-' of VOL button.

▶ Recording 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, pls. refer to page 20)
- If the VOR function does not work properly, set the MIC sensitivity low. (For details, pls. refer to page 20)
- 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, pls. refer to page 20.)

Connecting to an External Device



▶ Connecting to a PC

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

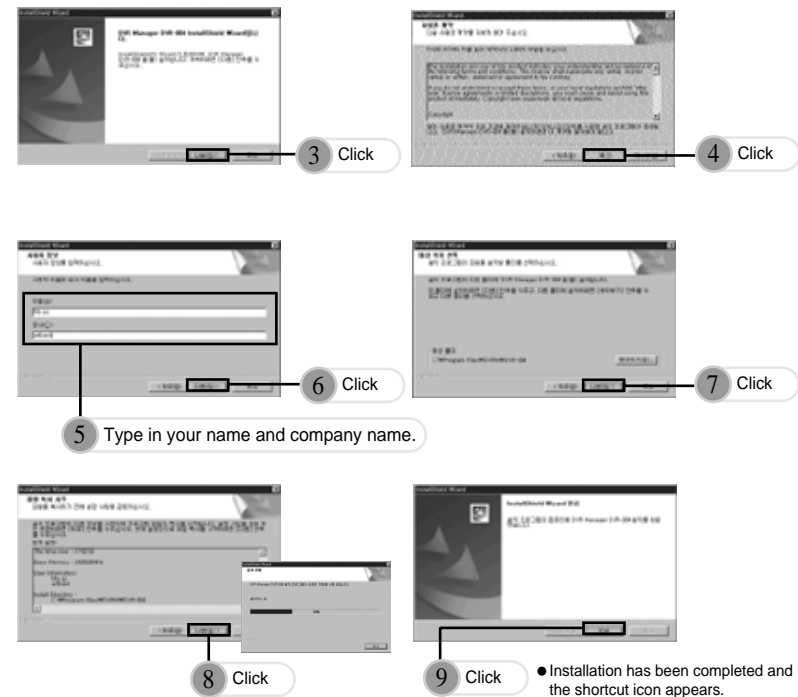
Installation of DVR-Manager

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.



Connecting to an External Device

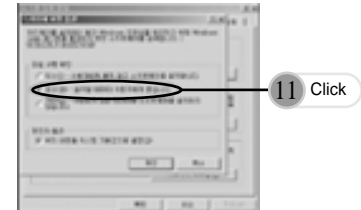
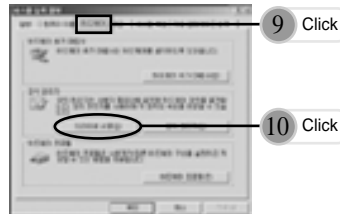
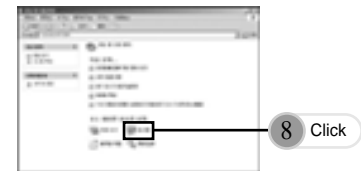
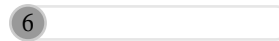
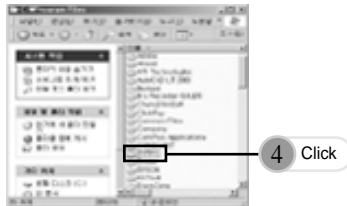


▶ Connecting to a PC(continued)

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.



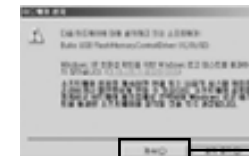
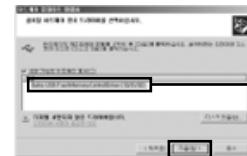
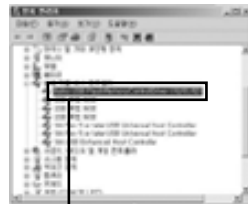
Connecting to an External Device



▶ Connecting to a PC(continued)

Installation of Driver(continued)

12 Connect the Recorder to PC by USB cable.



16 Click

18 Click

20 Click

19 Click

21 Click


22 Click


Connecting to an External Device



▶ Connecting to a PC(continued)

도움말 보기

If installation is finished, shortcut icon is displayed .

- 1 **Double click the shortcut icon**  .
 - DVR-Manager is executed.

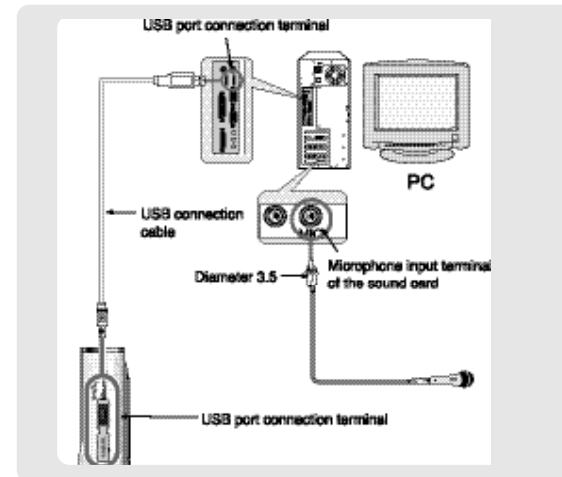
- 2 **Select Help** of main menu.

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.

Connecting to PC

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



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

Others



▶ 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.

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.

Others



Troubleshooting

Check the following items before asking a technical support.

When using Voice Recorder

LCD doesn't work .

- CHECK1** Is the battery's power exhausted ? ▶ Replace the battery with a new one. (Refer to page 5)
- CHECK2** Is the battery installed to the correct polarity? ▶ Install the battery to the correct polarity.

Recording doesn't work.

- CHECK1** Is the device locked by the HOLD key? ▶ Release the HOLD key.
- CHECK2** Has the memory or file numbers been used up? ▶ Delete unnecessary files. (Refer to pages 12~13, 29 ~30)
- CHECK3** Is the battery's power exhausted? ▶ Replace the battery with a new one. (Refer to page 5)

Playback doesn't work.

- CHECK1** Is the device locked by the HOLD key? ▶ Release the HOLD key.
- CHECK2** Is there any recorded file? ▶ Check the folder and file numbers.
- CHECK3** Is the battery's power exhausted? ▶ Replace the battery with a new one. (Refer to page 5).

No sound comes from the speaker.

- CHECK1** Is the volume set to '0'? ▶ Adjust the volume.(Refer to page 7)
- CHECK2** Is the earphone plugged in? ▶ Pull out the earphone completely.

The earphones do not work.

- CHECK1** Is the volume set to '0'? ▶ Adjust the volume. (Refer to page 7)
- CHECK2** Is the earphone plugged in properly? ▶ Plug the earphone in properly.

For DVR-Manager

REC/PLAY icons are inactive.

- CHECK1** 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.

- CHECK2** Is the volume set excessively high? ▶ Adjust the volume of the DVR-Manager, since the excessively high volume may cause noise.

Can't record with an external microphone.

- CHECK1** Is the external microphone connected to the PC (Sound Card)? ▶ Connect the external microphone to the sound card and start recording.(Refer to page 42)
- CHECK2** 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.

Others



Troubleshooting

When error message appears

Indication in PC	Contents	Arrangement
	File list of memory is abnormal.	Remove batteries. Put batteries in Recorder again and power on. In case of same error message appears, please use Low Format (Refer to page 29 ~ 30). ※The erased file by using Low Format is not recovered.
	Erased function is not available.	Connect Recorder to PC. Save the recorded file of Recorder in PC. Use Quick/Low Format (Refer to page 29 ~ 30)
	There are too many blocks not to be used in memory.	Connect Recorder to PC. Save the recorded file of Recorder in PC. Use Low Format (Refer to page 29 ~ 30)
	Recording Append is not available.	Retry
	Cannot read memory.	Remove batteries. Put batteries in Recorder again and power on.

Specification

Item	Digital Voice Recorder	
Continuous recording time	128MB	XQ 14H 55M / HQ 21H 45M / SP 29H 50M / LP 65H 10M
	256MB	XQ 29H 50M / HQ 43H 30M / SP 59H 40M / LP 130H 20M
	512MB	XQ 59H 40M/ HQ 87H 00M / SP 119H 20M / LP 160H 40M
Maximum number of recording files	99 files per folder x 4 folders = 396 files	
Dimensions	32 × 19.3 × 86.5(mm)	
Weight	33.3g (excluding the batteries weight of 24g)	
Power Source	Two DC 3V (Size "AAA", Alkaline) batteries, External Adapter	
Battery life	Recording: Approx. 12 hours / Playback: Approx. 12 hours (E/P normal level)	
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
	External	Plug-in electret condenser microphone
Output	Earphone	Earphones (∅ 3.5 / mono / 16Ω)
	Speaker	Diameter 20mm, 16Ω
Operational condition	Temperatures: 0 to 40℃	
Accessories	Recorder, Battery(AAAX2), Earphone , USB Connection Cable, Manager CD-ROM, Hand Strap, User's Manual, External Device Connection Cable, Telephone Recording Adaptor, Telephone Connection Cord, External Microphone , DC Adapter(Optional)	

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.

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.	
FCC ID : R28FSV-1000	MADE IN SEOUL, KOREA

Warranty

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