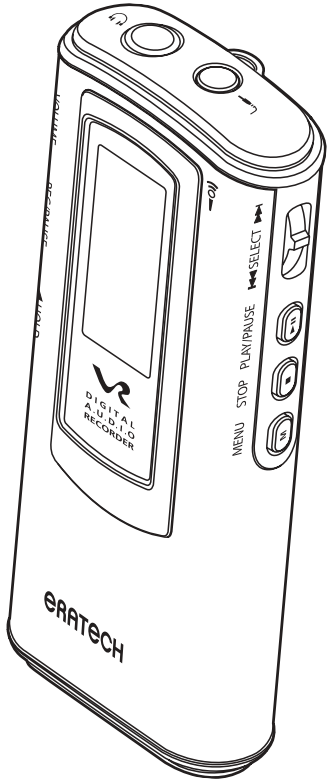
Appendix 6. User Manual

Refer to the following pages

ERATECH

User Guide (EVR-500)

Multi-functional Digital Audio Recorder



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Introduction

- Thank you for choosing our Digital Audio Recorder.
- Please read this manual carefully before using the recorder.
- Please be informed that this manual is subject to change without notice for improvement of the product.

Safety Cautions

Please read and comply with these instructions for information about using the product correctly and safely to prevent any possible danger or damage to properties.

1. Safety

① Do not keep the product in such places:
- Hot environment (above 60℃)
- Closed automobile
- Humid place like a bathroom
- Exposed direct to the sun or near a heating apparatus
- Areas of excessive dust

② Do not fall or give a shock to the product.

③ Users are prohibited to disassemble, repair, or rebuild it at your discretion.

④ Do not use the product in such areas like airplanes where the use of electrical utilities is prohibited.

⑤ Do not put your ID cards, credit cards, and other magnetic cards near the speaker, or you cannot use them because their magnetic information is likely to be lost due to the force of the speaker.

⑥ Do not apply excessive force to the liquid crystal display, or it may be destroyed or damaged.

2. Handling of Battery

① Do not short, disassemble, heat, or throw used batteries into fire; its electrolyte may come into your eyes, or it may be exploded by fire.

② If its electrolyte contacts skin or clothes, wash it immediately with flushing water. If it come into your eyes, wash them with flushing water and go see a doctor immediately..

③ Remove and put aside batteries out of Digital Voice Recorder, when you do not use it for a long time.

3. If the product gives off smoke or is transformed in form due to heat, remove batteries from the product immediately

4. You must check the remaining power of battery before starting record, because recording process will stop as soon as it is dead.

Characteristics of Product

Digital Audio Recorder is a Multi Codec Player that can play various formats including MP3, WMA, and ASF.

MP3

MPEG3, the Moving Picture Experts Group Layer 3, is one of standards for digital compression files. It can reduce a WAV file up to less than 10% of its original size, maintaining its sound quality close to its CD sound.

WMA

WMA, Windows Media Audio, is developed by Microsoft as a multimedia compression tool, exclusively for music data. It has the same sound quality as MP3, while its compression is about half (1/22) of that of MP3.

ASF

ASF, Advanced Streaming Format, is also developed by Microsoft as a multimedia file transfer data format, which comes to be used in more applications.

· **High Capacity USB mobile storage**
You can use the product easily and safely without the USB cable because it has a slide type USB connector.

· **Navigation**
You can search, select, and play a required file simply and easily using Navigation function.

· **Five Equalizers**
When listening to music, you may select its tone among Normal/Pop/Rock/Classic/Live.

· **Easy File Management Using Folders**
It has Voice and Radio folders users may manage easily and simply by generating and deleting them.

· **MP3 Voice Recording**
Voice is recorded in MP3 file, which may be stored permanently in PC and played repetitively without the loss of its quality.

· **FM Radio Broadcast - Receiving & Recording**
Users can enjoy both receiving and recording real time FM stereo radio signals.

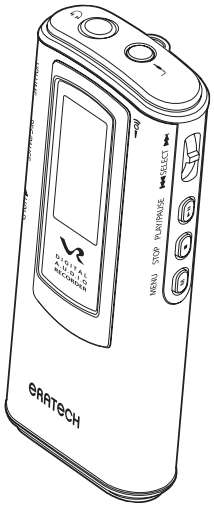
· **Firmware Upgrade**
The product enables the play of future multimedia formats through firmware upgrade and provides functional improvement and development for the use of up-to-date functions

· **Successive 8-hour Play**
You can play the recorder 8 hours successively with one AAA battery.

· **Multi Languages Support**
The product supports multi languages like Korean, Chinese and Chinese characters, English, Japanese, and special European characters.

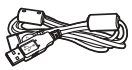
Product Components

Primary settings



Accessories

Stereo earphone



USB extension cable

Line in/out cable

Neck strap

AAA alkaline battery

User guide

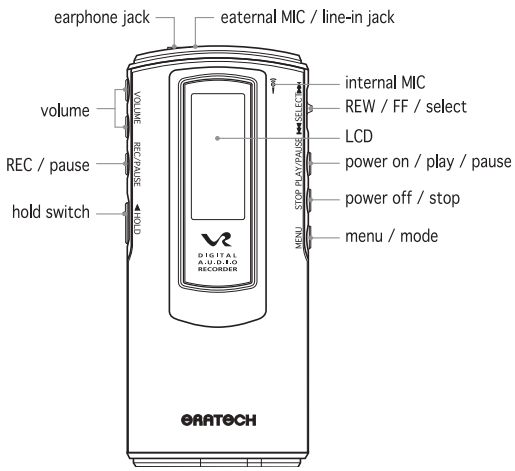
Set up CD

Option

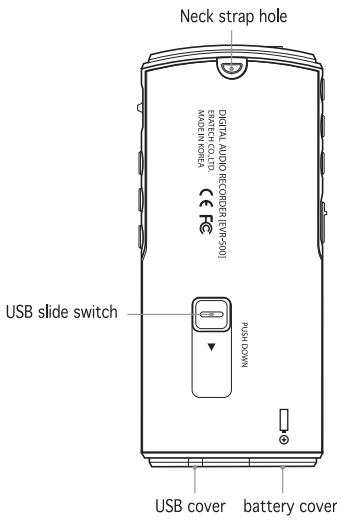
- Mono / Stereo Microphone
- Handsfree
- TEL REC KITs
- Carrying Case

Player controls

Front

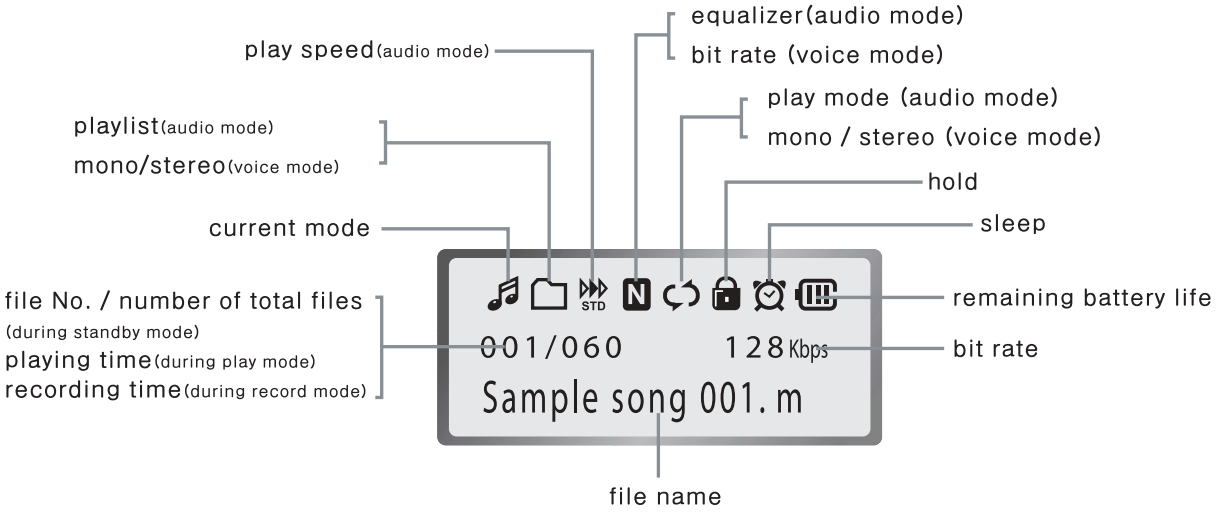


Rear

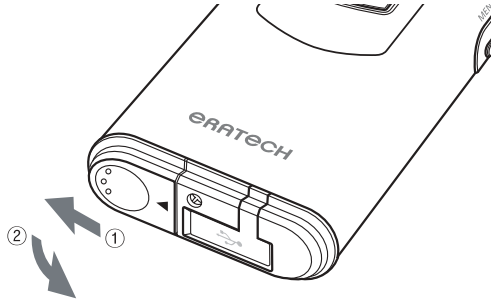


Player controls

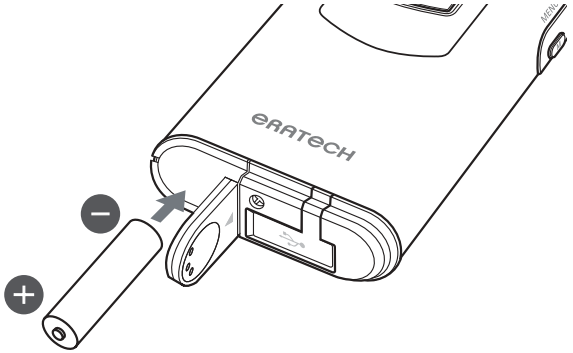
LCD



Inserting Batteries



1. Lightly press down on the arrow(①) and slide the battery cover(②) open.

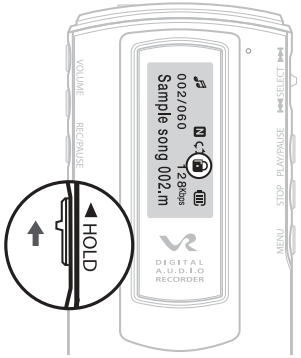


2. Insert a size-AAA alkaline battery, observing the correct polarity (+)/(-) as shown in the picture.

Hold On/Off

Set the HOLD switch to the HOLD position, and all operation buttons are disabled.

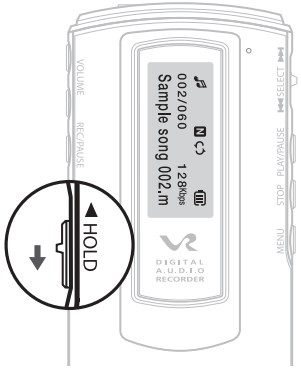
Hold ON



1. Slide up the HOLD switch in such direction as(▲) indicates.
2. LCD screen displays the icon like 🔒 .

· LCD screen will display the HOLD ON message, if you press a button with the HOLD switch set to the HOLD position.

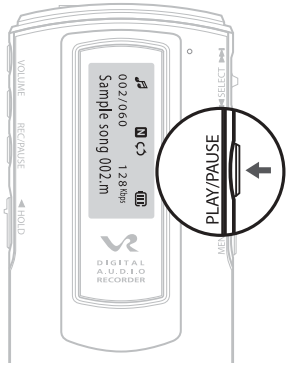
Hold OFF



1. Slide down the HOLD switch in such direction as (▼) indicates.

Power On/Off

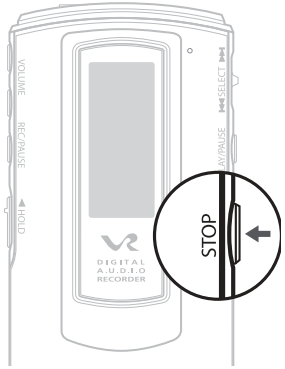
Power ON



1. Press button more than two seconds, and power will be turned on.

· When Power is on, the recorder is set to the last mode of the previous session.

Power OFF



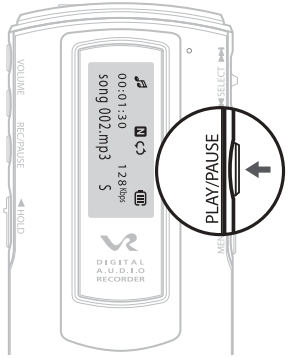
2. Press button more than two seconds, and power will be turned off.

· Power will be turned off automatically, if no button is pressed without operation for three minutes. -Auto Power Off function

Playing and Stopping File

Audio (MP3/WMA/ASF) Mode & Voice Mode

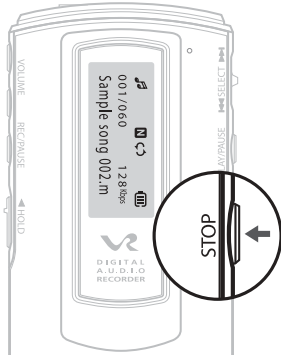
Play



1. After turning on power, press button to play a file.

· Press button during playback to pause the recorder, and press it again to resume.

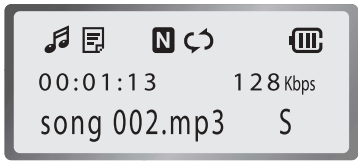
Stop

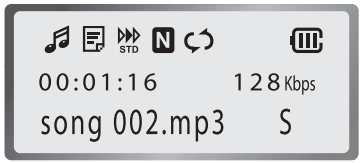


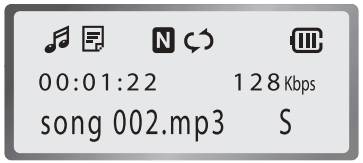
2. Press button during playback to stop the recorder.

Playback Speed Adjustment

You may adjust playback speed during playback.
It can be performed during playback in any mode (Audio or Voice).







1. Play a desired file in the Audio or Voice mode.

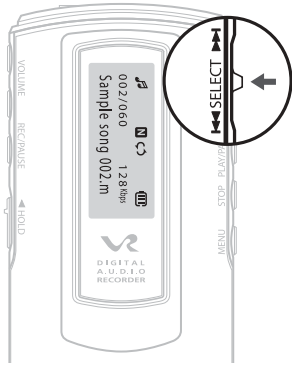
2. Press and M button for 2 seconds, and STD icon will appear on LCD. Then you can adjust playback speed with +, − button.

3. You can cancel the adjustment of playback speed by pressing and M button for more than 2 seconds again.

Move and Search

For Audio Voice Modes

File Search



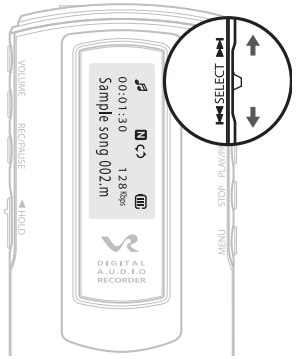
1. Press SELECT button during playback or pause.

2. Move the Jogdial in the direction of ⏮, ⏭ to find a desired file and select the file with SELECT button.

Part Search

For Audio Voice Modes

Part Search



1. Move the Jogdial in the direction of ⏮, ⏭ during playback to find a part where desired files are recorded and release the Jogdial, and the recorder starts to play the part forward.

Navigation

(Only for Audio Mode)

Search Function

You may use the navigation function to select a file easily and simply.

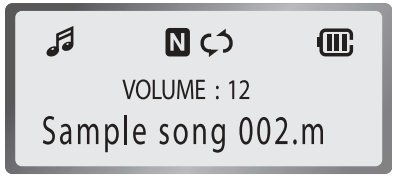
1. Press SELECT button to display a directory on LCD during playback or pause in Audio mode.

2. Move to a desired folder or file with ⏮, ⏭ button and press SELECT button.
3. Press ⊡ button to switch to Audio mode and press ⊡ button to play the selected file.

· You may select another file in the directory to play by selecting it during playback in Audio mode.
· You may play a file stored in FM Receiving mode or Voice mode when the recorder is in Audio mode.

Volume Control

Volume +/-



1. You may adjust the volume during playback or pause with ⊕, ⊖ button. Press button for a second to turn up or down the volume by level, or press and hold it to turn it up or down consecutively.

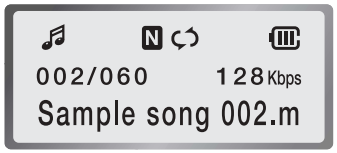
· Volume level is adjustable from 0 to 30.

Mode Switching

The recorder has three main modes such as Audio, Voice, and FM Radio.

Audio Mode

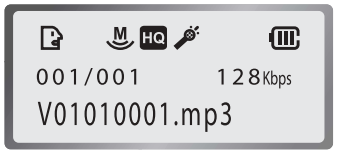
Press M button for two seconds or longer.



MP3, WMA, and ASF files and recorded FM radio broadcast file are played.

Voice Mode

Press M button for two seconds or longer.



Voice can be recorded and played.

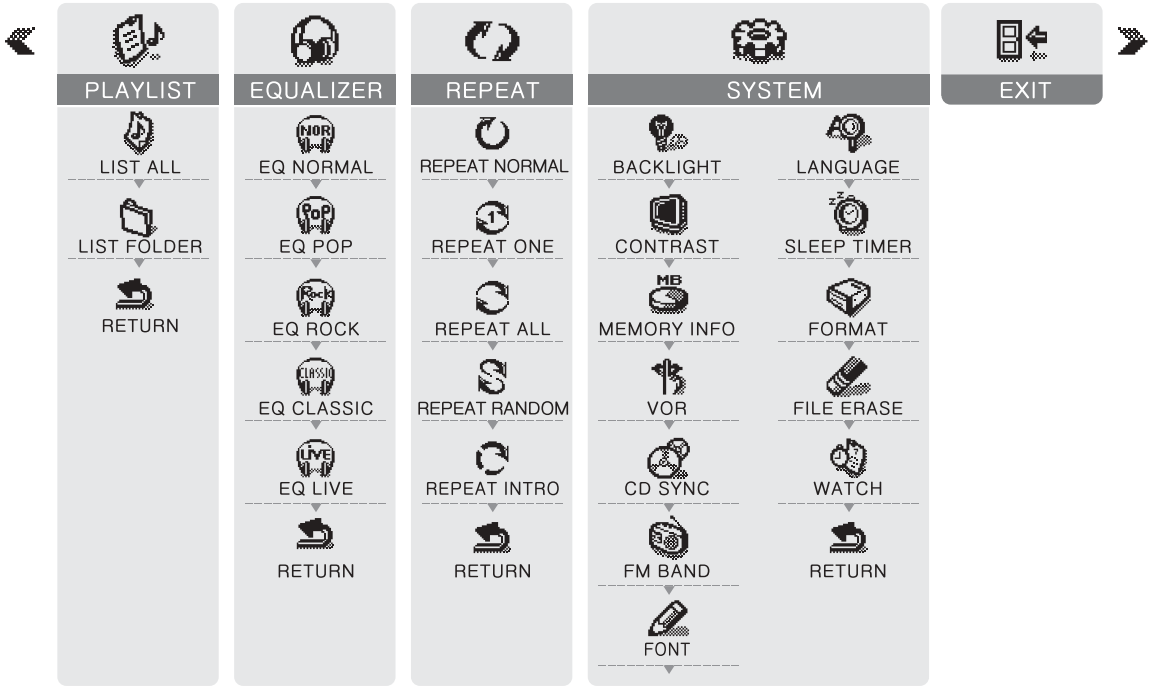
FM Radio Mode

Press M button for two seconds or longer.

You may listen to and record FM radio broadcast, save radio stations, and play recorded broadcast contents.

Descriptions

Audio mode



Playlist : Submenu where users set a selected song to be played repetitively.

Play All	Play all tracks.
Play folder	Play tracks stored in a selected folder.
Return	Move to a higher menu.

Equalizer : Submenu where users select various sound effects when listening to tracks.

EQ Normal	Recommended for Normal sound tone.
EQ Pop	Recommended for pop music.
EQ Rock	Recommended for rock music.
EQ Classic	Recommended for classic music.
EQ Live	Recommended for live music.
Return	Move to a higher menu.

Repeat : Submenu where users set repetition of files to be played.

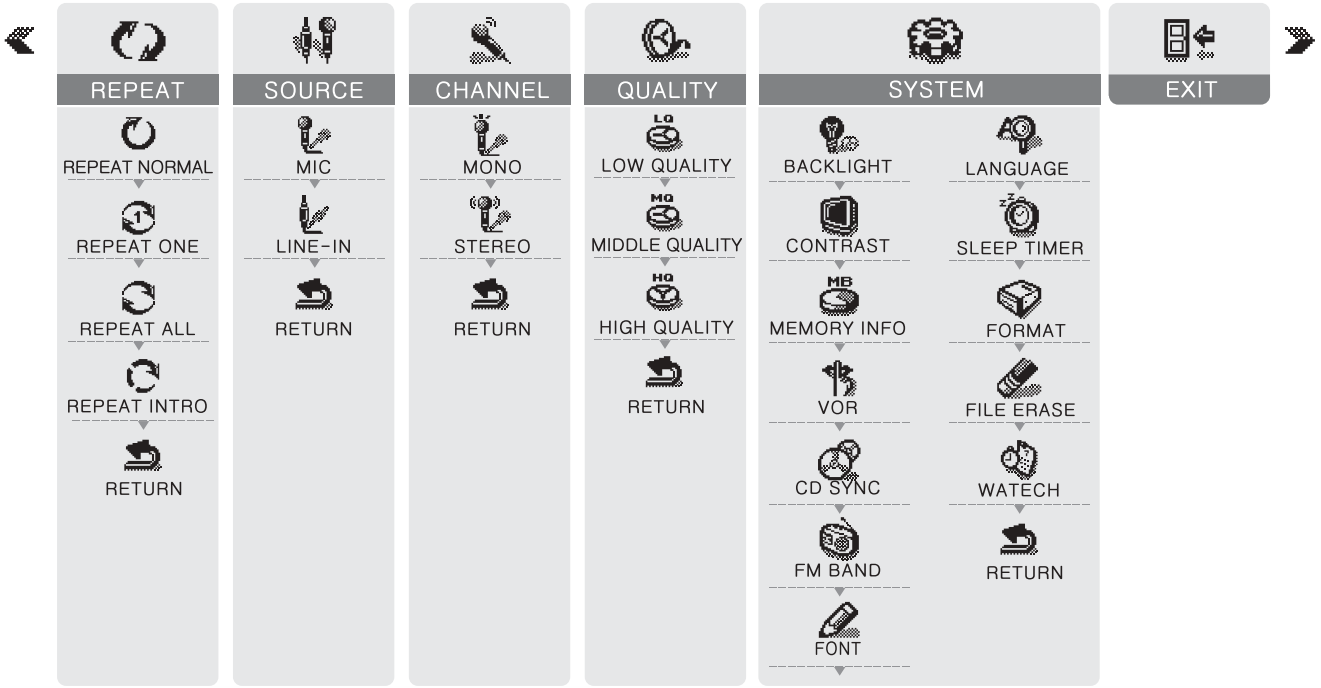
Repeat Normal	Play all tracks in order.
Repeat One	Play only one track repetitively.
Repeat All	Play all tracks repetitively in order.
Repeat Random	Play all tracks by random choice.
Repeat Intro	Play only first parts of all tracks.
Return	Move to a higher menu.

System

System

BACKLIGHT	Set period for backlight (OFF/3/5/10/15 sec available).
CONTRAST	Set brightness of LCD.
MEMORY INFO	Display the total memory and remaining space of the memory.
VOR	Record only when voice is sensed (OFF/10/15/20/25/30 sec available).
CD SYNC	Creats new files by setting up song/file recording intervals (OFF/1/2/3/5/15 sec available).
FM BAND	Change radio frequency depending on nations (US/Europe and Japan available. For your information, every country uses the same frequency except Japan).
FONT	Download fonts to use multi languages.
LANGUAGE	Select a language to be used for the recorder.
SLEEP TIMER	Set time after which the recorder is turned off automatically.
FORMAT	Delete all stored files (except fonts).
FILE ERASE	Remove files.
WATECH	Set or change time and date of recording.
RETURN	Move to a higher menu.

Voice mode


REPEAT
REPEAT NORMAL
REPEAT ONE
REPEAT ALL
REPEAT INTRO
RETURN
SOURCE
MIC
LINE-IN
RETURN
CHANNEL
MONO
STEREO
RETURN
QUALITY
LOW QUALITY
MIDDLE QUALITY
HIGH QUALITY
RETURN
SYSTEM
BACKLIGHT
CONTRAST
MEMORY INFO
VOR
CD SYNC
FM BAND
FONT
LANGUAGE
SLEEP TIMER
FORMAT
FILE ERASE
WATECH
RETURN
EXIT

Repeat : Submenu where users set repetition of files to be played.

Repeat Normal	Play all tracks in order.
Repeat One	Play only one track repetitively.
Repeat All	Play all tracks repetitively in order.
Repeat Intro	Play only first parts of all tracks.
Return	Move to a higher menu.

Source : Submenu where users select built-in or external microphone or external appliances

MIC	Use built-in/external MIC to record voice.
Line-in	Connect external appliances to record.
Return	Move to a higher menu.

Channel : Submenu where users select mono or stereo mode.

Mono	Set the mono recording.
Stereo	Set the stereo recording.
Return	Move to a higher menu.

Quality : It is the submenu where users select the recording quality

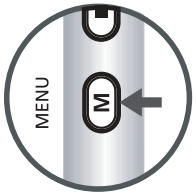
LQ	Quality lower than normal sound quality
MQ	Normal sound quality
HQ	Quality better than normal sound quality
RETURN	Move to a higher menu.

SYSTEM
Same as for Audio (refer to page 22).

Menu Screen

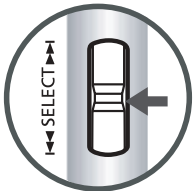
You may enter into Menu mode by pressing (M) button for a second during playback or pause.

Go to MENU

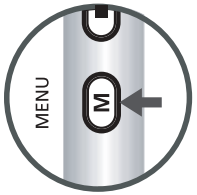


Move to MENU

Select MENU



Exit MENU



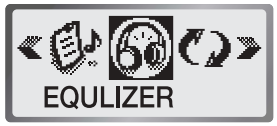
Setting of Playlist

Press Play button to play a file selected in the Playlist.

1. Select from menu screen.
2. Move to a desired item with ⏮, ⏭ button and select it by pressing SELECT button.

Setting of Equalizer

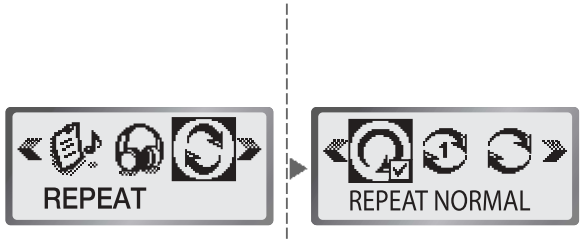
(Only possible for Audio mode)



1. Select from menu screen.
2. Move to a desired sound effect with ⏮, ⏭ button and select it by pressing SELECT button.

Setting of Repetitive Playback

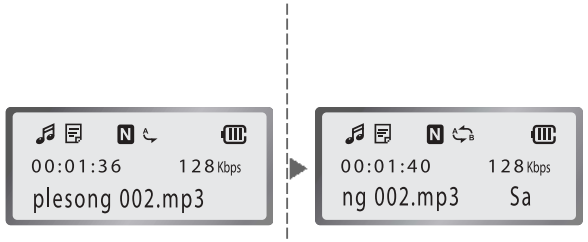
You may play repetitively tracks which are selected with bookmarks or in directory of the playlist.



1. Select from menu screen.
2. Move to a desired item with ⏮, ⏭ button and select it by pressing SELECT button.

Setting of A-B Repeat Function

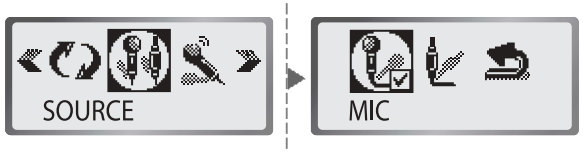
You may choose the intervals between two parts that you want to listen repetitively.



1. Play a file in the Voice mode.
2. Press button to set a start point of the part that you choose for repetitive playback. Press the button again to set its end point. Now selected part can be played repetitively.
3. By pressing button again, the A-B repeat function stops.

Setting of Internal/External Microphone

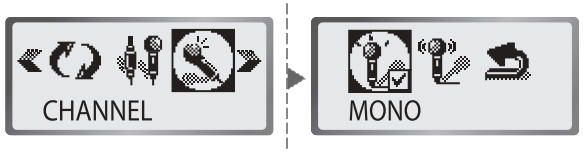
(Only for Voice Mode)



1. Select from menu screen.
2. Move to either Mike or Line In item with ⏮, ⏭ button and select one by pressing SELECT button.

Setting of Mono/Stereo Sound

(Only for Voice Mode)



1. Select from menu screen.
2. Move to either sound item, Mono or Stereo, with ⏮, ⏭ button and select one by pressing SELECT button.

- Stereo can be selected only when an external appliance was connected and [LINE IN] item selected in [MENU] – [SOURCE] window.
- Mono mode is a default setting when [MIC] item is selected in [MENU] – [SOURCE] window.

Setting of Recording Quality

(Only for Voice Mode)

1. Select from menu screen.
2. Move to a desired recording quality level with ⏮, ⏭ button and select one by pressing SELECT button.

Setting of Backlight

Backlight shall be set from [MENU] – [SYSTEM] window of each mode.

1. Select from [MENU] – [SYSTEM] window.
2. Move to a desired item with ⏮, ⏭ button and select it by pressing SELECT button.

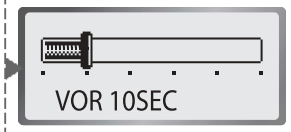
Setting of LCD Brightness

LCD Brightness shall be set from [MENU] – [SYSTEM] window of each mode.

1. Select from [MENU] – [SYSTEM] window.
2. Move to a desired level with ⏮, ⏭ button and select it by pressing SELECT button.

Setting of VOR

Users may set a period after the lapse of which recording is prohibited until there is a voice. This function is possible only for Voice mode.

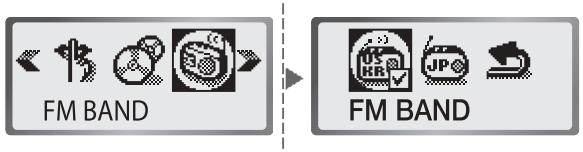


1. Select from [MENU] – [SYSTEM] window.
2. Move to a desired value with ⏮, ⏭ button and select it by pressing SELECT button.

- Available values are 10 s, 15 s, 20 s, 25 s, and 30 s.
- This function may not be performed in noisy surroundings.

FM Bands

Users may select FM bands for radio broadcasts in Korea, U.S.A., EC, and Japan.

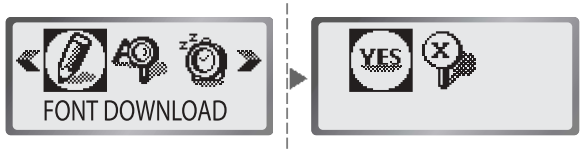


1. Select from [MENU] – [SYSTEM] window.
2. Move to a desired band with ⏮, ⏭ button and select it by pressing SELECT button.

· Every country uses the same frequency except Japan.

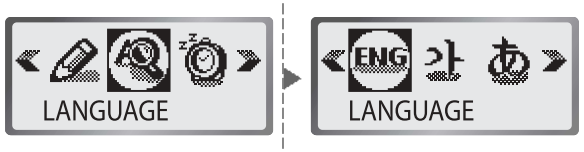
Download of Fonts

It is possible only when users install supplied software in the recorder. Connect the built-in USB connector to USB jack of PC.



1. Select from [MENU] – [SYSTEM] window.
2. Select YES.

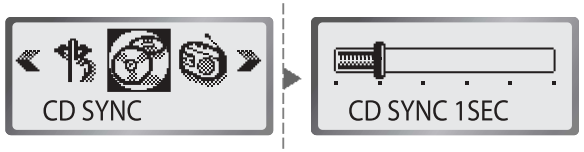
Language Setting



1. Select from [MENU] – [SYSTEM] window.
2. Choose a language with ⏮, ⏭ button and select it by pressing SELECT button.

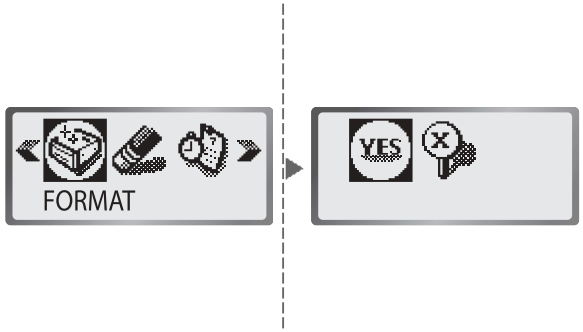
Setting of CD Sync

Users may create a new file during intervals between tracks.



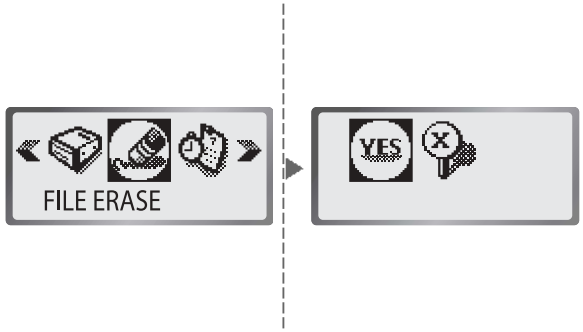
1. Select from [MENU] – [SYSTEM] window.
2. Move to a desired value with ⏮, ⏭ button and select it by pressing SELECT button.

Format



1. Select from [MENU] – [SYSTEM] window.
2. Choose an item YES with ⏮, ⏭ button and select it by pressing SELECT button.

File Erase



1. Select from [MENU] – [SYSTEM] window.
2. Choose a file or folder to delete with ⏮, ⏭ button and select it by pressing SELECT button.
3. Delete the selected file by pressing YES button, or cancel File Erase function.

Power Timer

It enables to put off power automatically after the lapse of period set.

1. Select from [MENU] – [SYSTEM] window.
2. Move to a desired time with ⏮, ⏭ button and select it by pressing SELECT button.

Setting of Time and Date

It enables to set or change time and date.

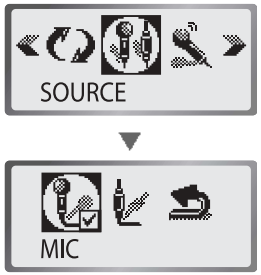
1. Select from [MENU] – [SYSTEM] window.
2. Move to a desired setting with ⏮, ⏭ button and reset it with ⊕, ⊖ button.

· Numbers go up and down by pressing ⊕ button and ⊖ button, respectively.

Voice Recording

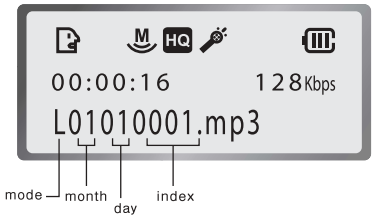
You need to set Mike or Line In, Mono or Stereo, and VOR function before starting recording.
Setting of functions is allowed only in Voice mode. Please refer to pages 28 to 30.

Microphone



1. Go to [MENU] – [SOURCE] window and set [MIC] window.

- The default setting of Mike is Mono.
- You have to connect the cord of an external appliance to the jack when recording with an external microphone.



2. Voice starts to be recorded by pressing button in Pause mode.

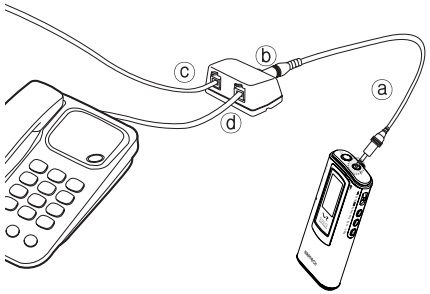
- Recording is paused by pressing button during playback and resumed by pressing it again.

3. Recording is stopped by pressing button, and a new voice file is generated.

- When you resume recording after stopping by pressing button, the content of recording will be saved behind the last taken number.
- Recording stops automatically if memory is full.

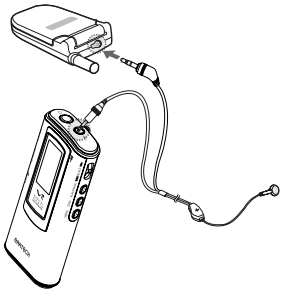
Connection with Telephone (Option)

Go to [MENU] – [SOURCE] window and set [MIC] window as for the recording with an external mike.



4. Connect the Line-in cable as shown in the picture.

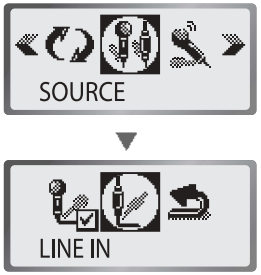
Connection with MobilePhone (Option)



5. Connect the Line-in cable as shown in the picture.

· Recording is possible only for Mobile phone with an earphone jack. Some models do not assist this function.

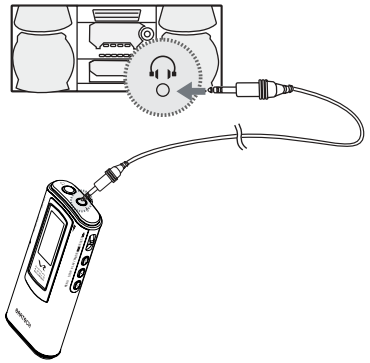
LINE-IN



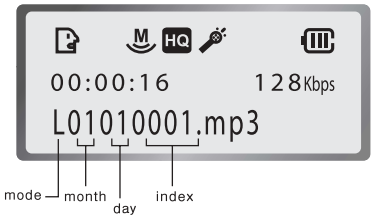
1. Go to [MENU] – [SOURCE] and set [LINE IN] window.

· When recording through an external appliance (PC or audio), turn down the volume of the appliance lest it should distort recorded sound.
· You may get high quality recording from external appliances, if you record in Stereo/HQ mode. The recording time, however, comes to be shorter.

External Appliances

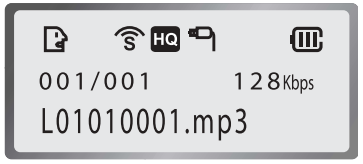


2. Connect the line-in cable as shown in the picture.



3. Voice starts to be recorded in Stop mode by pressing button.

· Recording is paused by pressing button twice during recording and resumed by pressing it again.



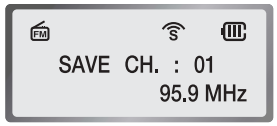
4. Recording is stopped by pressing button, and a new voice file is generated.

FM Signal Receiving Function

1. Press and hold (M) button for two seconds and longer to set the recorder in FM Radio mode.
2. Search for a desired station with ⏮, ⏭ button.

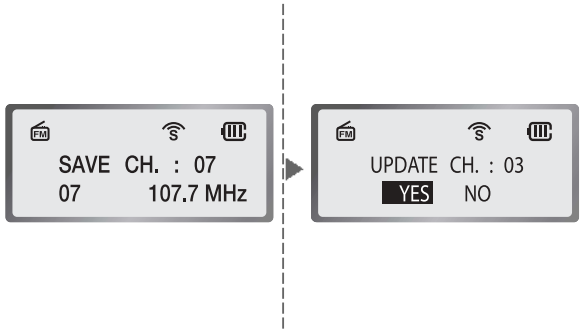
· If you press and hold SELECT button for two seconds and longer, the recorder will tune to the stations automatically – AUTO SEEK function.

FM Channel Saving Function



1. Select the station that you want to listen to and press SELECT button and 'SAVE CHXX' message displays on the screen.
2. Press SELECT button, go to 'YES' with ⏮, ⏭ button, and select it.

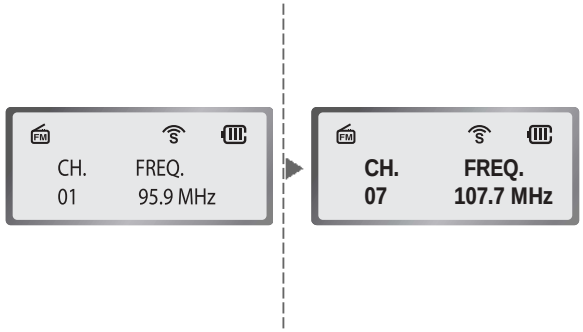
Channel Update



1. It is performed in the same way as for saving channels except that you have to move to and select a desired number with SELECT button when 'SAVE CHXX' message displays.

· You may receive uneven signals in weak electric field areas with poor transmission sensitivity.
· Straighten the line of earphone as longer as possible and/or turn it horizontally until you get clearer sound quality, since earphone works as an antenna.

Listening to Saved Channel

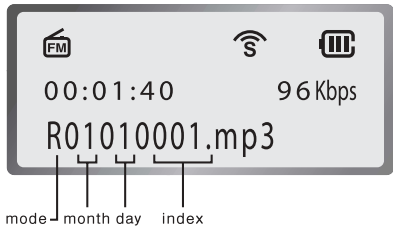


1. Select and listen to a FM channel recorded in FM Radio mode with button.

· Numbers go up and down by pressing button and button, respectively.

Recording Radio Broadcast

Recording Broadcast Contents



1. Press button and start recording while listening to a channel. Press the same button during recording and recording pauses; press it again to resume recording.

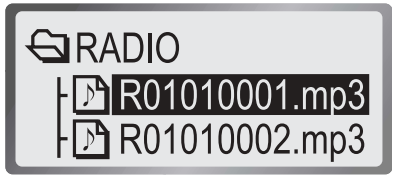
2. Press button to stop recording.

- The recorded broadcast contents files are stored in the order of recording.
- You cannot adjust the volume when recording radio broadcast. So you need to adjust the volume before starting recording.

Listening to Recorded Broadcast Contents

Press M button for a second in FM Radio mode to enable FM Record Play mode. Press M button again for a second to switch to FM Radio Broadcast mode. You also can listen to recorded broadcast contents in Audio mode.

Listening to Recorded Broadcast Contents



1. Press M button for two seconds and longer to switch to Audio mode.
2. Press SELECT button to select a Radio folder in the directory.
3. Select a desired file and press ►II button.

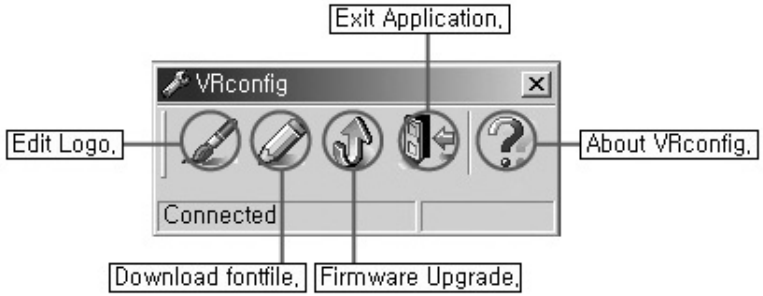
Installation

1. Insert the supplied CD into the CD-ROM drive of personal computer and a window pops up as shown in the picture.
2. Click on NEXT' button.

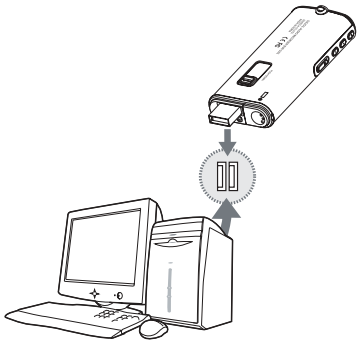
3. Installation wizard starts to run.

4. Click on Finish' button.

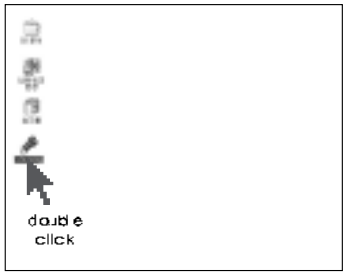
Icons

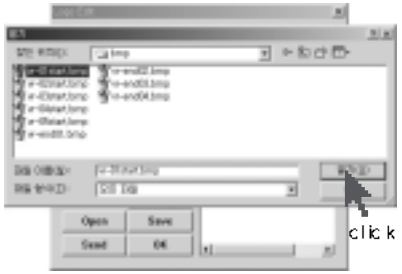


Saving of Logo



1. Turn on PC by pressing button.
2. Connect the USB port terminal on the recorder to USB port on the computer.





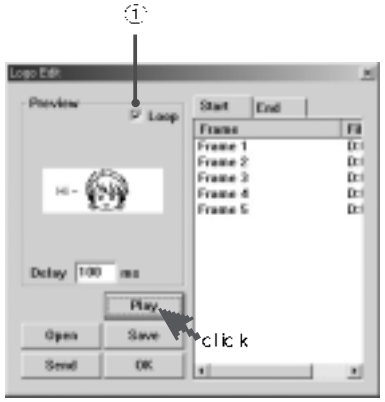
3. Double click on 'Beatsounds Config' icon on the screen.

4. Click on 'Edit log' in the 'Beatsounds Config' window to pop up 'Logo Edit' window.

5. Click on 'Open' button in 'Logo Edit' window.

6. Select an image to be used on PC and click on 'Open'.

· Digital Audio Recorder uses only .bmp file for its logo image.



7. Check 'Loop' indicated by ① in the picture and click on 'Play' button to preview image animation process.

8. Press 'Save' button to save the animation file on PC.

· The animation file will be saved with a .DAT extension.

9. Press 'Send' button to download the saved file to Digital Audio Recorder.

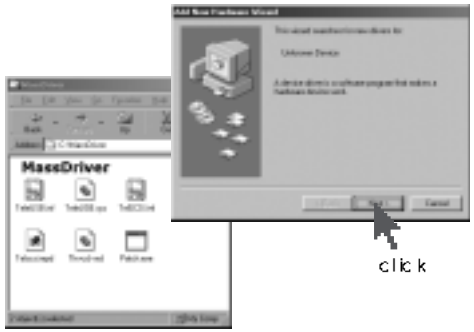
10. Put off and on the power of Digital Audio Recorder and the saved file is animated.

Installation of Mass Storage Driver (for Win 98)

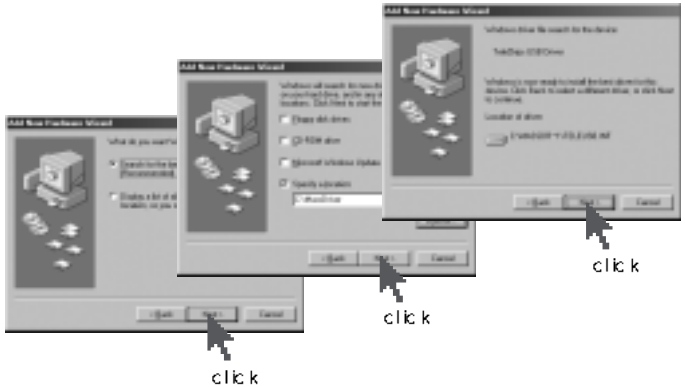
You have to install Mass Storage Driver supplied in your CD in order to use Digital Audio Recorder in Win 98.

Win98

The following are procedures to install USB driver.

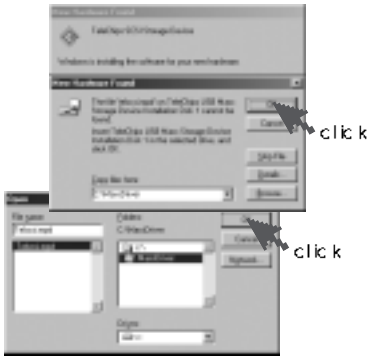


1. Insert the Installation CD into the CD-ROM drive of PC.



2. Press 'Next' button in every consecutive window.

3. Press 'Finish' button in the last window, and then press 'OK' button in the next window.



4. Press 'OK' button.

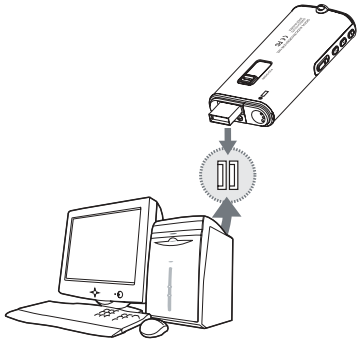
5. Copy 'Patch.exe' and 'thvcd.vxd' files to 'Start Program', and reboot the computer.

Connection to and Use with PC

- Pentium 133MHz or faster
- RAM. 64 MB or higher
- USB port
- Win 98/ME/2000 (PRO)/XP
- Hard Disk 20MB or more
- Sound Blast card or other compatible card
- CD-ROM Drive

Download

Transfer of files from Digital Audio Recorder to PC



1. Put On power of PC by pressing button.
2. Connect the USB port terminal on the recorder to USB port on the computer.
3. Double click on 'My Computer' icon on PC screen.
4. Double click on Portable Drive.
5. Select files to be transferred from PC and drag and drop them to Digital Audio Recorder.

Upload

Transfer of files from Digital Audio Recorder to PC

1. Connect Digital Audio Recorder to PC.
2. Select Portable Drive in My Computer folder.
3. Select files to be transferred to PC and select 'Copy' using the right mouse button.
4. Drag and drop selected files to a folder in PC.

Deletion of Files in PC

The 'VOICE RADIO' folder in Digital Audio Recorder is created automatically, though it is deleted.

Deletion of Files

Deletion of files in PC

1. Select files to be deleted in Digital Audio Recorder and click on the right mouse button to select 'Delete'.
2. Click on 'Yes' button and deletion process begins.

Connection to and Use with Mac

You have to execute iTunes before uploading files to Mac.

Downloading

1. Put On the power of the recorder by pressing button.
2. Connect the recorder to USB port on Mac.

3. Make a folder in iTunes to keep files.

4. Select files to be transferred from Digital Voice Recorder and drag and drop them to the folder in iTunes.
5. Press 'OK' button.

Troubleshooting

If you experience problems with the recorder, refer to the following instructions before calling for customer service.

Nothing appears on LCD screen:

1. Check the remaining power of battery.
2. Check if battery is inserted properly observing the correct polarity (+)(-).
3. Check if battery cover is closed completely.

Recording is not possible:

1. Check if the HOLD switch is set to the HOLD position.
2. Available memory may be too short due to current recording and/or audio files.
3. Check if volume is set to '0'.

No sound is heard:

1. Check if the HOLD switch is set to the HOLD position.
2. Check if there is a recording file.
3. Check if battery is used up.

No sound is heard from earphone:

1. Check if volume is set to '0'.
2. Check if the earphone plug is inserted properly.

FCC Compliance Statements

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.

Warning : Your are cautioned that any change or modifications to the equipment not expressly approved by the party responsible for compliance could void your authority to operate such equipment.

Category	Item		EVR-500
MP3/WMA/ASF	Channels		Stereo
	Frequency Range		20Hz ~ 20KHz
	Earphone Out		6mW(L) + 6mW(R) : 16Ω, Max Volume
	S/N Ratio		85dB (with A-weight filter)
FM Radio	Frequency Range		87.5 ~ 108MHz (Korea/USA/Europe) 76 ~ 90MHz (Japan)
	Earphone Out		5mW(L) + 5mW(R) : 16Ω, Max Volume
	S/N Ratio		55dB (with A-weight filter)
	Reciver Type		Earphone cord antenna
Recordign	Time (mono)	128MB	Max. 2.180min(LQ), 1.090min(MQ), 540min(HQ)
		256MB	Max. 4.370min(LQ), 2.184min(MQ), 1.092min(HQ)
		512MB	Max. 8.738min(LQ), 4.369min(MQ), 2.185min(HQ)
	Sound Quality	Mono	Sampling rate : 16KHz Bit rate : 8Kbps(LQ), 16Kbps(MQ), 32Kbps(HQ)
		Stereo	Sampling rate : 44.1KHz Bit rate : 96Kbps(LQ), 128Kbps(MQ), 160Kbps(HQ)
		FM radio	Sampling rate : 44.1KHz, Bit rate : 96Kbps
Decode & Encode Format			MP3
PC	Interface		USB 1.1 (up to 4Mbps)
	System O/S		Win 98/Win 2000(pro)/Win XP/Win Me/NT
			Mac OS 8.6
Power Supply	Power		AAA battery x 1
	Play		About 8Hrs with earphone
Gernal	Dimension(mm)		39(W) x 91(H) x 15(D)
	Weight(g)		43

MEMO

www.eratech.co.kr / www.beatsounds.co.kr / www.beatsounds.com