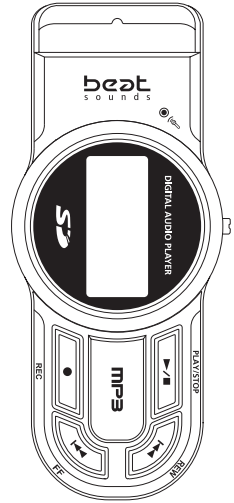
beat sounds

Beatsounds User's Manual

Digital Audio Player(EMP-200)



MP3 DIGITAL AUDIO · DIGITAL VOICE RECORDER · FM RADIO · MASS STORAGE · USB · Firmware Upgrade

Table of Contents

Before Using

Preface/Precautions ---------- 3
Package Contents ---------- 4
Product Features ----------5
Name Components ----------6
Name of LCD Components ----------7
Inserting a Battery ----------7

Basic Usage

Locking/Unlocking the Player----------8
Power On/Off----------9
File Playback/Stop----------9
File Search/Section Search----------10
Navigation----------10
Using MMC/SD Card----------11
Controlling Volume----------12
Switching the EQ mode----------12
Switching the repeat mode----------12

Menu Setting

Menu Structure----------13
Mode Switching ----------14
REPEAT----------15
PLAY LIST----------15
EQUALIZER----------16
FM Radio (FM BAND)----------16
FM Radio (FM SENSE)----------17
DISPLAY TYPE----------17
ID3 Tag ----------18
FILES MNG(FILE ERASE)----------18
FILES Transfer----------19
SYSTEM
- BACKLIGHT----------19
- CONTRAST----------19
- MEMORY INFO----------20
- QUALITY----------20
- SLEEP TIMER----------21
- AUTO PLAY----------21
SECTION REPETITION(A-B)----------22

Recording----------23

FM Radio

Scanning FM Radio Frequency----------23
Saving FM Channel----------24
Saving FM Channel Automatically----------24
Setting Preset Function----------25
Recording Radio Broadcasting----------25
Listening to Recorded Broadcasting--------25

Stopwatch function----------26

Connect to PC----------27

File Upload/File Deletion---------28

Installing device driver----------29

Connect to MAC----------30

Check in malfunction----------31

Product Specification----------32

Product Warranty----------33

Preface

. Thank you for choosing this digital audio player.
. Please read this manual carefully before using the player.
. Please be noted that this user's manual is subject to change without notice for improving product performance.

Precautions

Please be sure to comply with the following instructions to avoid possible risk or physical damage from carelessness.

1. Safety precautions
   1) Do not leave the player in the following places.
      - Place with high temperature (over 60oC)
      - Inside the window-closed vehicle
      - Place with high humidity including bathrooms
      - Place exposed to the direct sunlight or close to heating devices
      - Place with much dust
   2) Do not drop or strike a strong shock.
   3) Do not disassemble, repair or modify the product at your own discretion.
   4) Do not use the player in the restricted area like inside the aircraft.
   5) Excessive shock on LCD panel will cause a break or malfunction.
   6) Do not use the player while you are driving a car, a motorcycle, or a bicycle. It may be dangerous and may be illegal in some districts.
   7) It may be dangerous to keep the volume of the headphone high while you are walking on the street.
   8) Prolonged use of the headphone at a high volume level may hurt your hearing.(If you have a ringing in the ears, turn the volume down or stop using the headphone.)
2. If the battery is totally flat during recording, the player will be automatically stopped. Make sure to check the available battery capacity before recording.

Product Features

This Digital audio player is a multiple codec player that supports various formats such as MP3.

What is MP3? MP3 is short for MPEG1 (Motion Picture Experts Group) Audio Layer 3. It is one of the file formats that save various audio data with digital system. MP3 maintains the sound quality similar to that of CD while compressing the audio data by less than 1/12 of the WAV file.

MMC/SD card usage function

Additional card (MMC/SD) can be inserted into the internal memory slot, which enables easy memory expansion.

Large-capacity USB removable storage device

The player(EMP-200) has a built-in USB connector. Therefore, you can use he player safely and conveniently without separate USB cable or manager program.

Navigation (Search) function

Using the navigation function, you can search for and select the file to playback easily and conveniently.

5-type equalizer

You can select among the following 9 tones; Normal, Pop, Rock, Classic, Live.

Convenient file management using folder function

By default, the RADIO folder and VOICE folder are separated. You can also create or delete the folder for your convenience in file management.

MP3 format voice recording

Recorded voice is saved in a MP3 file format, which gives you a repetitive playback with the clear sound quality and permanent storage in your PC.

FM radio reception and recording

The player supports stereo radio reception, real-time recording and playback.

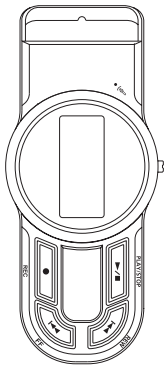
17-hour continuous playback

The internal battery lasts with up to 17 hours for continuous playback.

Multilingual support

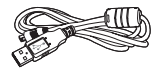
The player supports various languages such as Korean, English, Japanese, Chinese and European special characters.

Package Contents



EMP-200

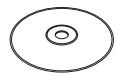
Stereo Earphone



USB Cable

Battery(AAA)

Quick Start Guide

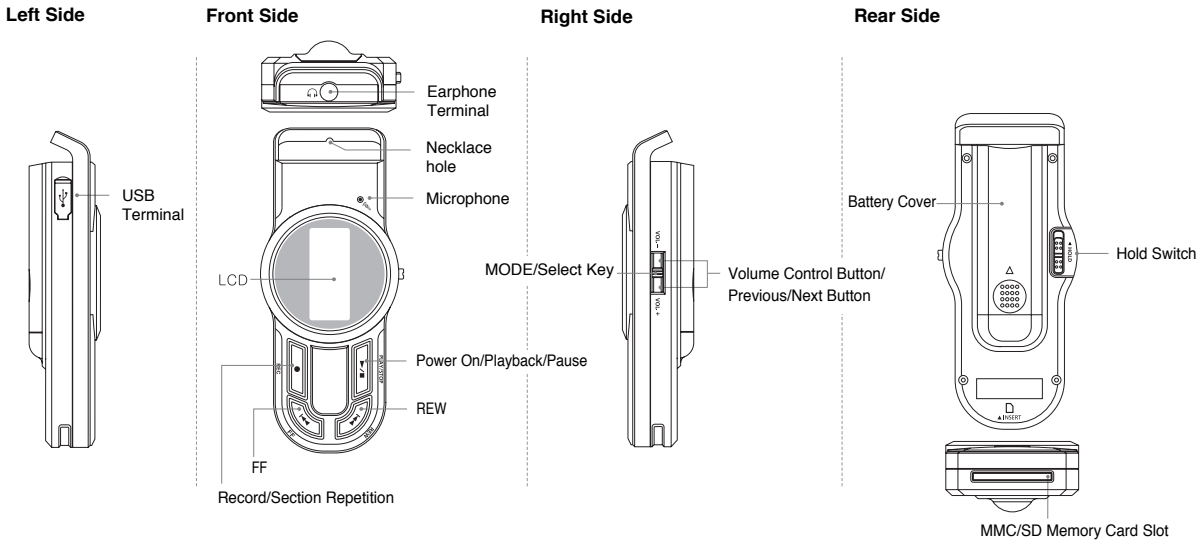


Installation CD
User's Manual

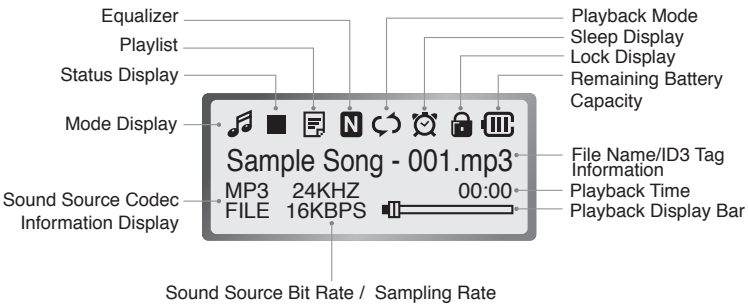
Options

- Necklace
- Carrying Case

Name of Components

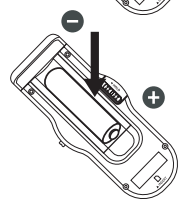


Name of LCD Components

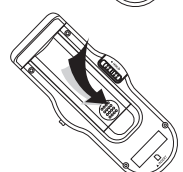


Inserting a Battery

1. Push the battery cover to the arrow direction to open the battery cover.



2. Insert the AAA type battery to the direction as shown in the figure. (Check the correct polarity.)

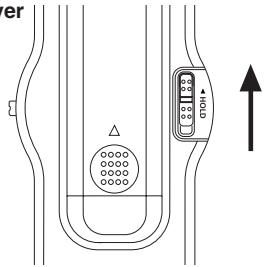


3. Close the battery cover.

Locking/Unlocking the Player

If you lock the player, other operation buttons will be disabled.

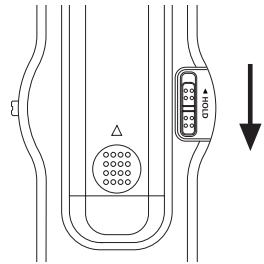
Locking the player



1. Push the HOLD switch left to the (↑) direction.
2. 🔒 icon will be displayed on the upper side of the LCD and HOLD ON message will appear and, in a minute, disappear at the bottom.

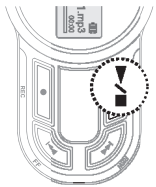
If you press any button while the player is locked, the HOLD ON message will appear for a moment.

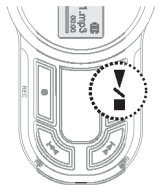
Unlocking the player



1. Push the HOLD switch to the opposite direction (↓).

Power On / Power Off





- Press the [►/■] button and hold it for a moment to turn the power on.
- Press the [►/■] button and hold it for a moment to turn the power off.

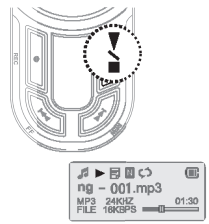
When the power is on, the last modified setting is displayed.

If you don't press any button in the stop mode, the power will be automatically turned off after 3 minutes (Auto power off function).

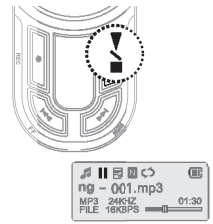
File Playback / Stop

Audio mode (MP3)

Playback

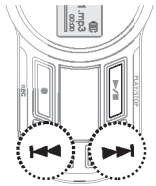


Stop



- To playback the file, press the [►/■] button while the power is on.
- Press the [►/■] button during playback to stop the player.

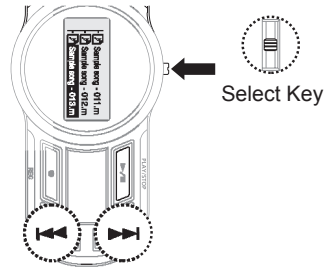
File search / Section Search



- Search for the target file using the button and then, press the button to play it back.
- If you press the button longer during playback and release the button, playback will start from that position.

Navigation

You can select a file conveniently using the navigation function.



1. If you press the **Select Key w**hile the player is paused in the audio mode, the directories will be displayed one LCD.
2. Move to the target folder of file using the button and then, press the button to play back the intended music file.
   If you don't want to select a file, press the Select Key to exit from the navigation mode.

- REW, FF : File navigation
- PLAY/PAUSE : File selection
- Vol+, Vol- : Directory navigation
- Select Key : Enter/Exit the navigation

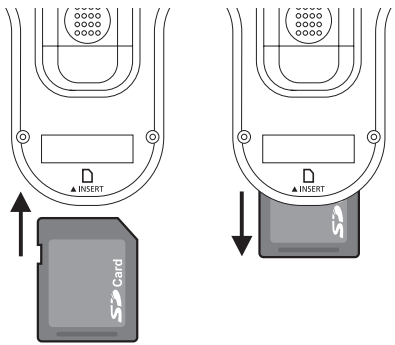
Using MMC/SD Card

- Inserting the MMC/SD card

  Insert a MMC/SD card into the MMC/SD card slot at the rear side of the player, as shown in the figure. If the MMC/SD card is not inserted properly, try again. (Be careful about the insertion direction.)

- Taking out the MMC/SD card

  Hold the MMC/SD card and pull down to take it out.

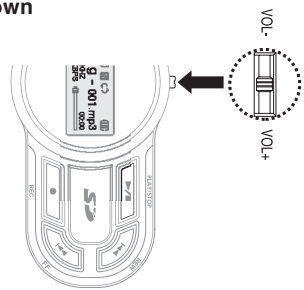


< Cautions >
- Make sure to turn the player off when you insert or take out the MMC/SD card.
- Do not insert or take out the MMC/SD card while playing back the music file.
- Do not contact the metal surface of the MMC/SD card to other foreign objects.

< Note >
- We bear no responsibility over the data loss caused by user's mistake.

Controlling Volume

• **Volume Up/Down**



1. Slide the Vol+/Vol- button up/down during playback or pausing to adjust the sound volume.

If you press the button shortly, volume will increase by one step, whereas it will increase continuously to the max if you press the button for longer time. You can control the volume from 0 to 40.

Switching the EQ mode

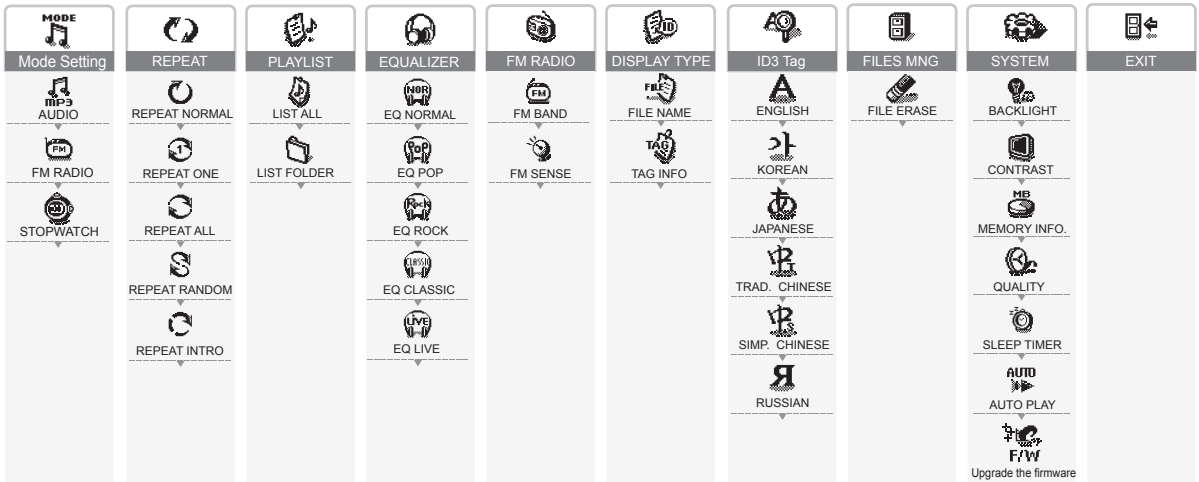
Press the MODE key longer during playback to switch the EQ mode (Normal ➡ Pop ➡ Rock ➡ Classic ➡ Live)

Switching the repeat mode

Press the MODE key shortly during playback to switch the repeat playback mode (Repeat all once ➡ repeat one ➡ repeat all repeat randomly ➡ Intro)

Menu Structure

When you press the Select Key while the player is paused in the audio mode, the directory list will be displayed on the LCD.



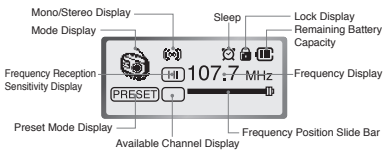
Mode Switching

Select one of Menu ➔ Mode Setting ➔ Audio ➔ FM Radio ➔ Stopwatch

Audio Mode

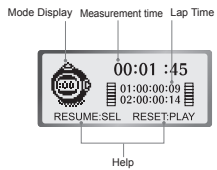
In this mode, you can playback MP3 file, recorded FM radio broadcasting file.

FM Radio Mode



In this mode, you can listen to the FM radio broadcasting service. You can also save its frequency to listen to or record any channel you want to select.

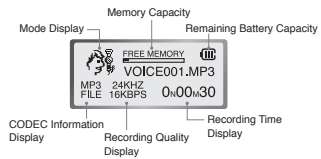
Stopwatch Mode



Stopwatch function
You can use the stopwatch function to measure the time with simple operation.

Recording Mode

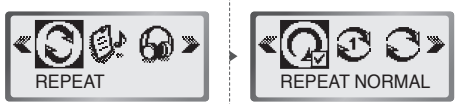
Press the button to switch to the recording mode.



You can record voice or the FM radio broadcasting in the stop mode or while listening to the FM radio.

REPEAT

Select the play order of the list (NORMAL/ REPEAT ONE/ REPEAT ALL/ SHUFFLE/ INTRO).



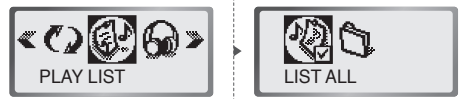
1. Select [MENU] - [ ].
2. Move to the intended menu item using the Vol+/Vol- button, and press the Select Key.

REPEAT: Set the repeated file playback.

REPEAT NORMAL	Plays back entire files sequentially once.
REPEAT ONE	Repeats one file selected.
REPEAT ALL	Plays the entire list sequentially and repetitively.
REPEAT RANDOM	Repeats all files randomly.
REPEAT INTRO	Plays the intro section of any file.

PLAY LIST

If you select LIST FOLDER in the PLAY LIST, only the files in theselected folder are played repeatedly.



1. Select [MENU] - [ ].
2. Move to the intended menu item using the Vol+/Vol- button (folder playback, playback all), and press the Select Key.

PLAY LIST: Selects the scope of file playback.

LIST ALL	Plays back all files.
LIST FOLDER	Plays only files listed in the selected folder.

EQUALIZER

You can apply various tones to music.

1. Select [MENU] - [ ].
2. Move to the intended tone using the Vol+/Vol- button, and press the Select Key.

	EQ NORMAL	Selects normal tone
	EQ POP	Selects pop tone
	EQ ROCK	Selects rock tone
	EQ CLASSIC	Selects classic tone
	EQ LIVE	Selects live tone

FM RADIO (FM BAND)

Modifies the Frequency band to listen to the radio broadcasting in Korea, U.S., Europe or Japan.

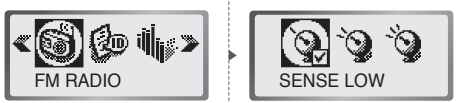
※ Frequency band in every country except Japan is same.

1. Select [ ] from the [MENU] - [ ].
2. Move to the intended position using the Vol+/Vol- button, and press the Select Key.

	FM BAND	Modifies the radio Frequency band for each country. (Select among U.S., KR and Japan. All countries except Japan have the same frequency)
	FM SENSE	Sets the radio reception sensitivity (Low/Middle/High).

FM RADIO (FM SENSE)

Sets the radio reception sensitivity when auto-scanning the frequency. Adjust reception sensitivity that best fits for your region as the number of radio stations can differ depending on the sensitivity value.



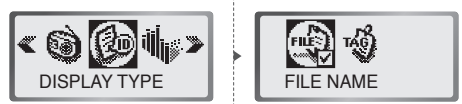
1. Select [ ] from the [MENU] - [ ].
2. Move to the intended position using the Vol+/Vol- button, and press the Select Key.

- You can select the sensitivity from LOW/MIDDLE/HIGH.
- Low reception sensitivity area means the area where radio reception sensitivity is poor.

DISPLAY TYPE

Titles that are scrolled during playback can be displayed in file name or ID3 tag.

※ When the tag information consists only of ID3V1, only the file name is displayed.
※ Only when the tag information includes ID3V2 is the TAG information displayed normally.



1. Select [ ] from the [MENU].
2. Move to the intended menu item using the Vol+/Vol- button (File Name or TAG INFO), and press the Select Key.

	FILE NAME	Displays the file name
	TAG INFO	Displays the tag information (If the tag information is not available, the file name will be displayed)

ID3 TAG

Sets the language used to display the ID3 tag.

1. Select [MENU] - [ ].
2. Move to the intended menu item using the Vol+/Vol- button, and press the Select Key.

ENGLISH	Sets English as a tag language.
KOREAN	Sets Korean as a tag language.
JAPANESE	Sets Japanese as a tag language.
TRAD. CHINESE	Sets Traditional Chinese as a tag language.
SIMP. CHINESE	Sets Simplified Chinese as a tag language.
RUSSIAN	Sets Russian as a tag language.

FILE MNG(FILE ERASE)

Use this function to delete files.

1. When you select [ ] from the [MENU] - [ ], the directories will be displayed on the LCD.

: Moves between files
: Moves between directories
: Selects files

2. Select the target folder or file using Vol+ or Vol- button. Then, press the Select Key. The "DELETE FILE ARE YOU SURE?" message will be displayed on the LCD.
3. Move to the [Yes] and press the Select Key. to delete the selected file.

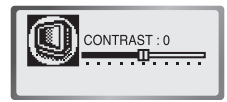
FILE ERASE	Deletes (a) file(s)

SYSTEM ▷ BACKLIGHT

1. Select [ ] from the [MENU] - [ ].
2. Move to the intended position using the Vol+/Vol- button, and press the Select Key.

BACKLIGHT	You can select one of Off/3/5/10/15 Sec/Always

SYSTEM ▷ CONTRAST



1. Select [ ] from the [MENU] - [ ].
2. Move to the intended position using the Vol+/Vol- button, and press the Select Key.

CONTRAST	Sets LCD brightness.

- You can select on of -5/-4/-3/-2/-1/0/+1/+2/+3/+4/+5 step.
- By default, contrast is set to "0".

SYSTEM ▷ MEMORY INFO

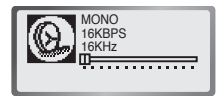
Displays total and available memory .

1. Select [MB] from the [MENU] - [ ].
2. Total and available memory will be displayed.

Total Memory	Available Memory
128 MB	121 MB
256 MB	248 MB
512 MB	502 MB
1 GB	1,010 MB

MEMORY INFO	Displays the current memory available and a total capacity of memory.

SYSTEM▷ QUALITY



1. Select [ ] from the [MENU] - [ ].
2. Move to the intended position using the Vol+/Vol- button, and press the Select Key.

	MPEG 2			MPEG 1	
mono/stereo	mono	stereo		stereo	
Sampling Rate	16	16	22.05	32	44.1
Bit Rate	16/24/32	40	44/48/56/64/80/96	112	128/160/192

QUALITY	Sets the recording quality (16 Kbps ~ 192 Kbps).

SYSTEM ▷ SLEEP TIMER

The player will be automatically turned off on a defined period of time.

1. Select [ ] from the [MENU] - [ ].
2. Move to the intended position using the Vol+/Vol- button, and press the Select Key.

SLEEP TIMER	The player is turn off automatically after defined period of time (Off/10/20/30/60/120minutes).

System ▷ AUTO PLAY

The player will start playback automatically when you turn the power on.

1. Select [ ] from [Menu] - [ ].
2. Select [ ].

AUTO PLAY	Sets the playback status when the power is on (Automatic playback or stop).

System ▷ FIRMWARE UPGRADE

Use this function to upgrade the firmware. You can download the up-to-date firmware from the web site (www.eratech.co.kr).

1. This feature copies the firmware from the homepage to the root directory of the digital audio player.

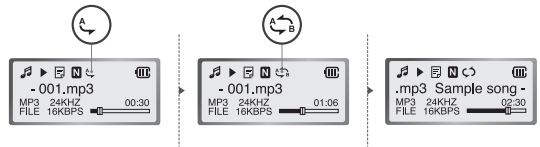
2. Select [MENU] - [SYSTEM] - [FIRMWARE].
   (Refer to the NOTICE on our homepage about FIRMWARE UPGRADES.)

< Notice >

Verify that the remaining battery capacity is sufficient before executing a FIRMWARE UPGRADE. When the unit malfunctions during a FIRMWARE UPGRADE, quickly refer to qualified personnel about servicing the unit.

SECTION REPETITION (A-B)

Selects and repeats playing a certain section of a file during playback

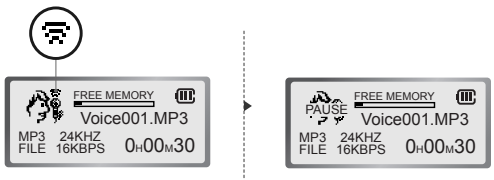


1. Play a file in audio mode and press [•] to mark the beginning point (A) for section repetition.
2. Set the end of the section [•] by pressing the (A B) button again. Then, the selected section will be played repeatedly.
3. Press the [•] button to set off section repetition.

Press [⏮] [⏭] or [•] button to cancel section repetition.
When you already selected [REPET INTRO] from [MENU] - [REPEAT], the section repetition will not be supported.

Recording

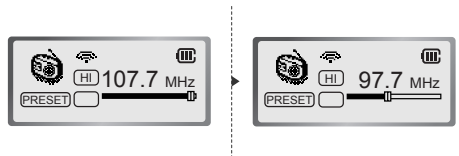
Start recording by pressing the button when the player is stopped in audio mode. Make sure to press the button when the player is stopped as it starts section repetition while the player is running.



1. Check the sound quality (Bit rate) function before recording.
2. Position the player towards the sound source while the player is stopped and then, press the button. Then, it will be switched to recording mode and start recording.
3. When you press , the (PAUSE) icon is blinking on LCD and recording will be paused. Press the button again and the recording icon will appear and recording will be resumed.
4. Press the button to stop recording.

Scanning FM Radio Frequency

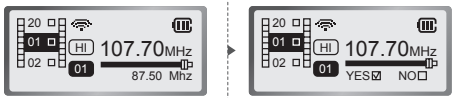
As the earphone code serves as antenna, you can improve the receiving sensitivity by stretching out the earphone code as possible or turning it to the horizontal for clearer sound.



1. Switch to the FM Radio mode by selecting Menu ➔ Mode Setting ➔ FM Radio.
2. Scan the target frequency using button.

Press the button and hold it for a moment and then release it. The player will scan the frequency automatically **- Auto search function.**

Saving FM Channel



1. Find the frequency that you want to choose and press the button. The channel saving window will appear.
2. Select the channel using the Select Key.
3. The screen as shown above will appear when you press the Select Key after selecting a channel. Then select [Yes] using the VOL+/VOL- button and press the Select Key.
4. Select [NO] and press the Select Key to cancel.

Certain areas under weak electronic field will have irregular reception sensitivity for some broadcasting service.

Saving FM Channel Automatically

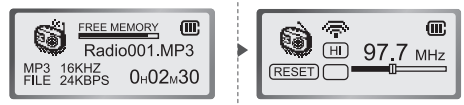
1. If you press the button longer than 2 seconds, the player will switch to preset mode and the "ARE YOU SURE?" message will appear.
2. Move to [YES] by sliding the jog key towards Vol+/Vol- direction, and press the Select Key.
3. Press the button to stop automatic saving.

All the channel information saved will be deleted in auto channel saving.

Setting Preset Function

1. When you press the Select Key in FM radio mode, the PRESET icon will be highlighted before the preset function is available. Pressing it again will return to the PRESET icon and stop the preset function.
2. If there is any channel that you have saved with the preset function on, you can tune radio frequency to the channel by pressing the button.

Recording Radio Broadcasting



1. Press the button while enjoying FM broadcasting to record the broadcasting. Press the button to pause recording and press the button again to resume recording.
2. Press the button to stop recording.

The recorded files of radio broadcasting will be saved in a sequential order.

Listening to Recorded Broadcasting

1. Switch to the FM Radio mode by selecting Menu ➔ Mode Setting➔ Audio.
2. Select the file you want using the navigation function and press the button.

Stopwatch function

You can use the stopwatch function to measure the time with simple operation.

1. Press the Select Key to start a stopwatch.

2. Press the Select Key to record the time while a stopwatch is running.

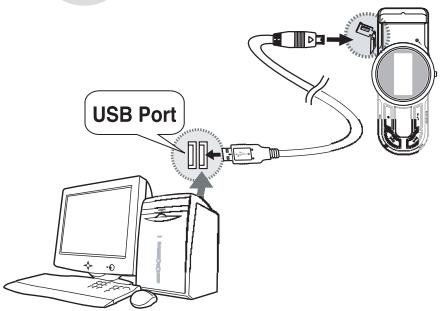
3. If you want to record the time, press the Select Key while time measurement is stopped.
   Press the button to return to the initial screen.
   You can display saved stopwatch time in the stop screen using the button through navigation

The measured time can be faster or slower than the actual time.

Connect to PC

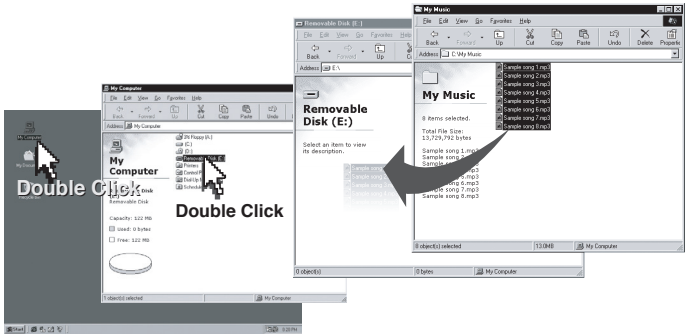
Windows 98/ME/2000/XP or higher, MAC OS 9.2 or higher

Download Transfer file to Digital Audio



1. Connect the player's USB connector to the USB port of your PC.

You can transfer data without turning on the player.



2. Double-click the "My Computer" icon on your desktop.
3. Double-click the "Removable Disk".
4. Select the file that you want to transfer from your PC and drag it to the player.

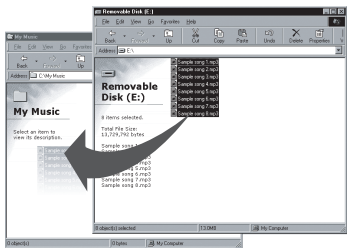
Don't plug off the audio player when displayed "Don't Remove USB" on the LCD; your system could be damaged and have instability.

File Upload / File Deletion

'Voice' or 'Radio' folder in the audio player is regenerated automatically even if deleted.

File Upload

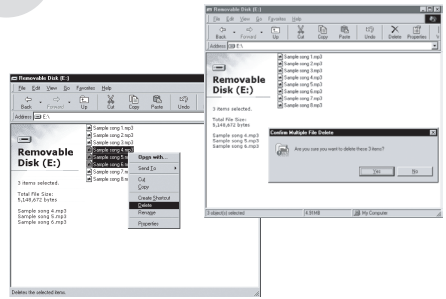
Transfer File in the Player to PC



1. Connect the player to your PC.
2. Select the "Removable Disk" in "My Computer".
3. Select the file that you want to transfer to your PC and drag and drop it.

File Deletion

Delete File in PC



1. Select the file that you want to delete in the player and right click it; select "Delete" in the file menu.
2. Select [Yes] will show you the deletion process.

Installing device driver

You do not need to install an additional device driver for this unit in systems with Windows ME, Windows 2000/XP or higher, or MAC OS 9.2 or higher.

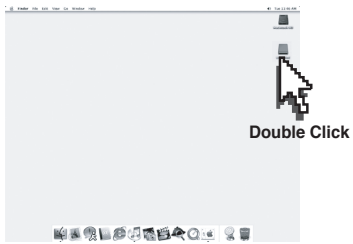
■ Installing a Driver in Windows 98

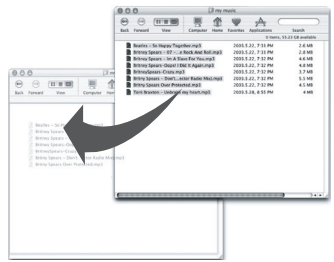
1. Do not connect the digital audio player to the PC USB port.
2. Insert the Installation CD into the CD-ROM of the PC.
3. Run "Setup.exe" in the Win98 driver folder of the installation CD.
4. Install the file and reboot the computer and then, connect the digital audio player to the PC USB port.

Connect to Mac

Mac OS 9.2 or higher

Download Transfer File to Player

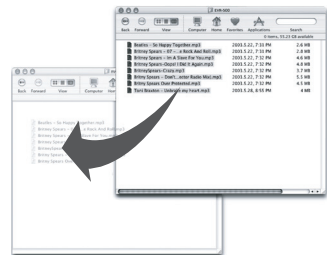




1. Connect the player's USB connector to the USB port of your PC. Double-click "Removable Drive".
2. Select the file that you want to transfer from your PC and drag and drop it to the player.

- You can transfer data to your PC without turning on the player.
- Press [Option] on your keyboard before drag-and-drop.

Upload Transfer File from the player to your PC



1. Connect the player to your PC.
2. Select "Removable Drive" on your desktop.
3. Select any file that you want to transfer to your PC.
4. Drag and drop the file to the folder where you want to save.

Check points for product malfunction

When it falls into the water

Stop using immediately ➔ Disconnect the earphone from the player
➔ Face the earphone inlet down and then draw water
➔ Contact the service center

When it doesn't playback misic

Check the battery status ➔ Check if music files are in the "MUSIC" folder
➔ Check if the volume is too low

When it doesn't tag information

- When the tag information consists only of ID3V1, only the file name is displayed.
- Only when the tag information includes ID3V2 is the TAG information displayed normally.

Letters are not displayed normally on the LCD.

Check whether the tag language is properly set.
➔ Check the tag language setting in the menu configuration. (See page 19.)

I cannot download the file.

Check whether the USB cable is properly connected.
➔ Connect to other USB port in the PC.
➔ Check to see if the driver is installed appropriately for Windows 98.

Nothing happens when I press the button.

Check whether the locking function is activated.
➔ If it is, release the locking function and check again.

Product Specification

Category	Item	Specification
MP3	Channel	MP3
	Frequency Range	20Hz ~ 20KHz
	Earphone Output	7mW(L) + 7mW(R) : 16Ω, Max Volume
	Signal to Noise Ratio	85dB (with A-weight filter)
FM Radio	Frequency Range	87.5 ~ 108MHz (Worldwide)
		76 ~ 90MHz (Japan)
	Earphone Output	3mW(L) + 3mW(R) : 16Ω, Max Volume
	Signal to Noise Ratio	55dB (with A-weight filter)
	Reception Mode	Earphone cord antenna
Recording Capacity	128MB	16Kbps:1,030Min. ~ 192Kbps:85Min.
	256MB	16Kbps:2,110Min. ~ 192Kbps:175Min.
	512MB	16Kbps:4,280Min. ~ 192Kbps:350Min.
	1GB	16Kbps:8,610Min. ~ 192Kbps:710Min.
Encoding Format	CODEC	MPEG1/MPEG2

PC	Interface	USB 1.1 or higher
	System OS	Windows 98/2000/XP/ME
		Macintosh OS 9.2 or higher
Recording Quality	Bitrate	16Kbps ~ 192Kbps
Power Supply	Power	AAA alkaline battery
	Duration	About 17 hours (MP3 Playback) in use of earphone
General	Dimension (mm)	87(H) x 33.5(W) x 15.5(D)
	Weight (g)	36g(without battery)

Product Warranty

1. This product is manufactured through strict quality control and the inspection process.
2. If any defect is found under the normal condition, you can receive free repair service at the sales office or the service center during the free warranty period.
3. If product malfunction occurs after the free warranty period, or the repair items belongs to the chargeable service even during the free warranty period, the service can be charged.
   - Malfunction due to user's carelessness.
   - If the user modified the product at his/her own discretion.
   - Natural disasters such as fire, damage from salty wind, flood or earthquake.
4. If you need to repair, please make sure to present this Warranty.
5. This Warranty shall not be issued again. Please keep it safely.

Product name		Digital Audio Player		
Model Name		EMP-200		
Serial Number				
Customer Contact Information	Name			
	Phone Number			
	Address			
Purchase Date		(Y /M /D)	Warranty Period	1 year
Manufacturer	Name	Eratech		
	Address	8F Koosan Bldg, 70-10, Nonhyeon2-dong, Gangnam-gu, Seoul, Korea	Office	080-571-8859
Distributor	Name			
	Address			

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.