

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.

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MEMO

Before Using Player

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Cautions For Safety

- Don't expose the player to dusty and humid places.



- Don't try to disassemble or rebuild the player randomly.



- Don't expose the player to a direct ray of light or hot stoves.



- Don't drop or give a severe shock to the player.



- As chemicals or rinsing detergents can change or peel the surface off of the player, don't use them.



- Don't touch or connect the player to other devices with wet hands.



Cautions For Safety

- Distributing music files to other people without permission is a violation of a copyright law.



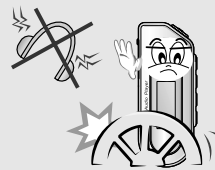
- We shall not be liable for the losses of data in the player by users' carelessness. During the repairing by our technical support teams, data stored in the player may be deleted.



- Listening to music long time with high volume may cause a hearing sense disorder.



- Don't use earphones while driving cars or riding bikes or motorcycles.



- While using the player, if you smell firing or it is severely heated, reset the player and call our customer support center.



Product Features

■ OLED LCD

OLED LCD is much better than the existing LCD in terms of readability and esthetic appreciation. By adopting OLED, it not only provides much better quality of display, but also makes its design far better.

■ Multi-Codec Support

With a support of the Multi-Codec, Digital files such as MP3, WMA and OGG can be played.

■ Lyrics Support

The player supports lyrics by connecting it to the lyrics data on the Internet, enabling you to download the lyrics of the song. Users can even edit them if necessary.

■ SRS

With 3D Surround Sound and reinforced Bass, you will experience a deep and rich sound with this player.

■ Handy Watch

Now MP3 Player functions as a watch. It shows current time and provides alarm function for morning call. Furthermore, you can preprogram the player to record FM radio, so no matter how late at night it will be, you can listen to the program through preprogrammed recording.

■ Book Mark

Instead of listening to a song, the length of which is long, from the beginning of the song, you can selectively listen to the song by searching the right position using the Book Mark.

Product Features

■ LCD Pivot

Not only a right-hander, but also a left-hander can now easily use the player, cause it provides pivot function, which lets the user swivel the display panel to left, right, up, and down. Now it's up to you which direction you are going to choose.

■ Voice Recording

With a high-sensitive internal microphone, it can be used as a professional voice recorder having versatile functions. It supports the VOR (Voice Operated Recording) function, which means that it records only if it detects sound, avoiding unnecessary recording and saving memories.

■ MP3 Direct Encoding (Music Recording)

Without having to connect to any PCs, you can directly save and record data to the player as digital files in real-time while enjoying FM Radio, CDs and music or contents in an audiocassette tape, so this is a must for students and workmen who not only want to enjoy music but also need a repeat function for studying TOEIC and TOEFL and practicing conversational skills.

■ FM Radio Listening & Recording

You can enjoy FM radio programs as well as digital music such as MP3, WMA, and OGG. You can even record a part of the music that you are listening to directly from the radio to the player, which you can listen to repeatedly and save into your PC.

■ Second-Based Resume

When you turn off the player and turn it back on later, the player will resume back the volume, EQ, and play list of the last music you listened to the same status.

Specifications

Classification	Items	Specifications
FM Tuner	FM Frequency	87.5MHz ~108.0 MHz
	Headphones Output	Max. Volume 7mW (16 Ω)
	S/N Ratio	50dB
	Antenna	Cord Antenna by Headphones/Earphones
Audio	Frequency Characteristics	20Hz ~20KHz
	Headphones Output	Max. Volume 15mW (16 Ω)
	S/N Ratio	90dB
File Support	File Types	MP3, WMA, OGG
	Bit Rate	MP3: 8~320Kbps, WMA: 32~192Kbps, OGG: Q0~Q10
USB	Download Speed	6.0Mbps (USB V. 1.1)
Recording Time		1040 Minutes of Voice Recording with Recording Mode of 32Kbps for 256MB
Max. Playback Time		12 Hours
Operation Temperatures		-5°C ~ 70°C
Dimensions (W x L x H)		68 x 27 x 16 (mm)
Weight		35g
Batteries (Built-in)		Li-Polymer

Accessories



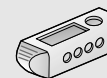
USB Cable



Line-In Cable



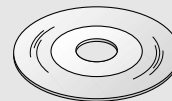
Neck Strap



Carrying Case



Earphones



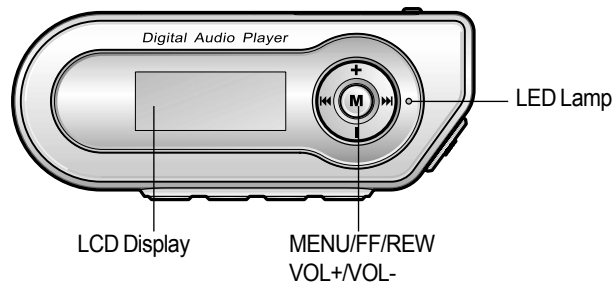
Program CD



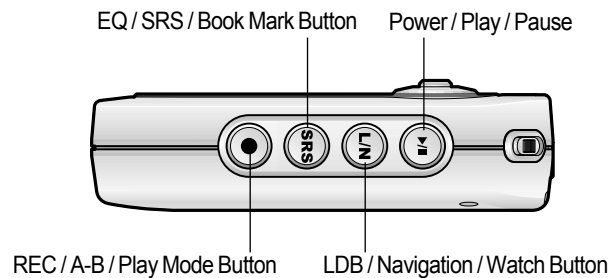
Manual

Names of Each Part

Front

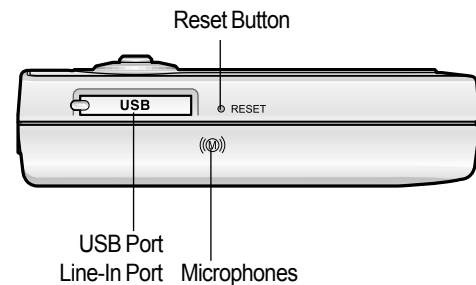


Side



Names of Each Part

Side



Rear / Top



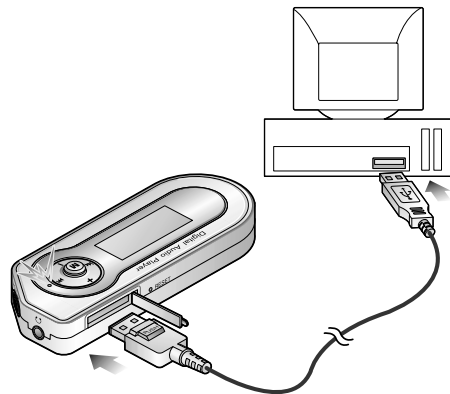
Minimum Requirements for PC

The minimum requirements for PC to use the player are as follows;

- Microsoft OS (Windows 98SE, 2000, ME, and XP)
- CD-ROM Drive
- Pentium 200MHz or higher
- More than 32 MB of RAM (64 MB or more for Window ME or 2000).
- More than 128MB of Hard Disk Space
(Additional Disk Space is required for storing music files)
- USB Port (Ver. 1.1) Available
- Mac 9.X ~ X

Charging Player Using USB Cable

1. Connect the player to the USB port at the back of your PC using USB cable.



2. When the player is charged, LED on the player will turn on, and turn off when the charging is completed.



For Your Reference!

- It takes about 3 hours to fully charge a completely exhausted battery.
- You can charge the battery when downloading files from your PC to the player.
- If the LCD display is not turned on, use the player after charging it with the USB cable.

About Power

The display of battery residue capacity can vary at the beginning of the operation. It will be stabilized after 5 to 6 seconds displaying the real amount of battery residue.



※ For the cases below, charge the battery with the USB cable.

- ① LCD displays "Low Battery."
- ② The player does not respond to the buttoning or stops immediately.
- ③ LCD does not respond to the buttoning.

Description	MP3
Li-Polymer Battery	12 Hours (520mA)

1. Consecutive Playback Time

- Li-Polymer Battery: 12 Hrs.
- MP3 128 Kbps
- Volume Level: Based on the level 15
- The above result is obtained using lithium-polymer batteries included in the product and is subject to change according to the conditions of use

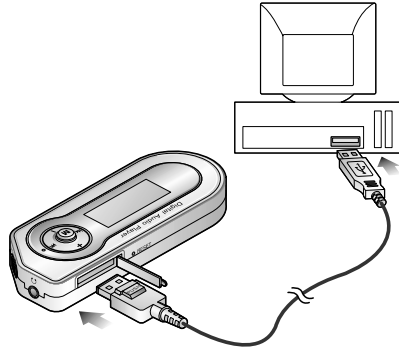
USB Connection & Disconnection

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Connecting Player to PC Using USB Cable

Connect the player to the USB port at the back of your PC using USB cable.



For Your Reference!

- What is USB? USB stands for Universal Serial Bus, which is a new method of connecting PC with peripherals.
- To use it efficiently, connect the USB cable directly to the USB port located at the back of PC. Connecting it to the USB port at the front of the PC or USB hub may cause a connection failure.
- For Windows 98SE, the player is not recognized to PC although it is connected with USB cable. Be sure to install a Program CD.

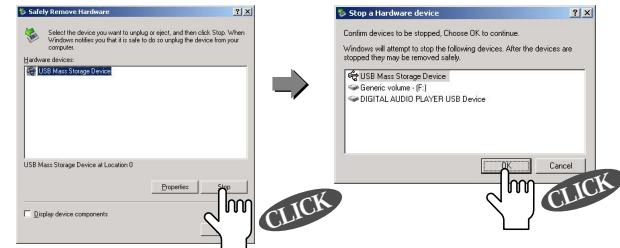
Disconnecting Player From PC Using USB Cable

For Windows ME, 2000, and XP Users

1. To disconnect the player from the USB cable, double click the green arrow at the right bottom of your Windows screen.



2. Select the "USB Mass Storage Device" and select "Stop." Click "OK."



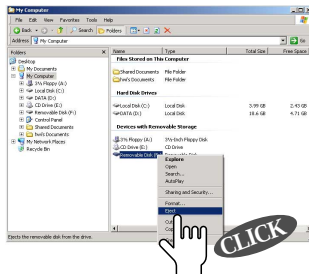
Disconnecting Player From PC Using USB Cable

3. After you see the message “Safely Remove Hardware,” click “OK” and remove the USB cable.



For Windows 98SE Users

Run “My Computer” or “Windows Explorer” and select the “Removable Disk.” Right click on it to select the menu “Remove” to disconnect the cable from the player. By following the order of the pictures below, remove the USB device on the right green arrows at the bottom right of the Windows.



For Your Reference!

- If you disconnect the cable without following the instructions above, you will see a warning message and it may cause a serious failure to PC or the player.
- Disconnecting the USB cable from PC while downloading, uploading, formatting, and OS updating may cause a serious failure to PC or the player.

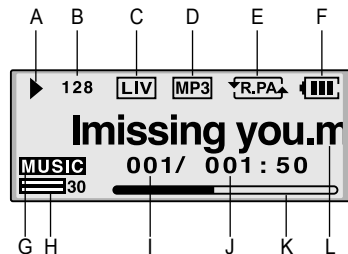
Basic Operations

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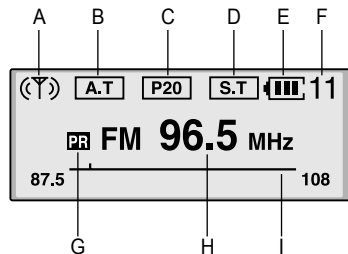
LCD Display

■ MUSIC Mode Display



- A: Status of Files (Play/Pause/Stop)
- B: Bitrate / LDB
- C: EQ / SRS
- D: Format of the Playing Files
- E: Play Modes
- F: Remaining Battery
- G: Modes
- H: Volume
- I: File Number
- J: Elapsed Time
- K: Track Number
- L: File Name

■ FM Mode Display



- A: Receiving (antenna displayed) / Ready to receive (antenna not displayed)
- B: Auto/Manual
- C: Preset Number (1~20)
- D: Mono/Stereo
- E: Remaining Battery
- F: Volume
- G: Preset Modes
- H: Frequency
- I: Frequency Bar

Simple Key Operations

■ MUSIC Mode

Button	Time Pressed	Stop State	Play State
PLAY / PAUSE		Plays a current song.	Pauses a current song.
		Power Off	Power Off
FF		Moves to the next track.	Moves to the next song.
		Successive forward track search.	Fast forward search from the current position.
REW		Moves back to the previous track.	Within 5 sec. after play: Moves back to the previous song. 5 sec. after play: Plays the song at the beginning of it.
		Successive backward track search.	Fast backward search from the current position.
MENU		Selects menus.	Selects menus.
		Selects modes. (MUSIC↔VOICE↔LINE↔FM)	Selects modes. (MUSIC↔VOICE↔LINE↔FM)
L/N		Watch ↔ Cancels Watch	Lyrics ↔ Cancels Lyrics
		Navigation.	Navigation

Simple Key Operations

Button	Time Pressed	Stop State	Play State
SRS		Displays book Mark	Sets Book Mark
		Displays book Mark	Changes EQ.
REC/A-B			Section Repeat: A ↔ B / Cancel.
		Ready for voice recording	Changes play modes (Normal → Repeat → Repeat All → Random → Random All)
VOL+		Increases Volume.	Increases Volume.
VOL-		Decreases Volume.	Decreases Volume.

■ Voice / Line Mode

Button	Time Pressed	REC Ready State	Recording State
REC		Voice Record/Music Record starts.	Voice Record/Music Record stops.

Simple Key Operations

■ FM Mode

Button	Time Pressed	Ready to Receive State	Preset Mode
PLAY /PAUSE		Waits for receiving.	Starts to receive ↔ Waits for receiving
		Power off.	Power off.
FF		Increases frequency 1 level up.	Moves to the next preset.
		Successively scans frequencies.	Moves to the next presets successively.
REW		Decreases the frequency 1 level down.	Moves 1 station back to the previous Presets.
		Successively search previous frequencies.	Successively moves back to the previous presets.
REC		FM Radio Recording / Stop	FM Radio Recording / Stop
Menu		Selects FM menus.	Selects FM menus.
		Selects modes. (MUSIC ↔ VOICE ↔ LINE ↔ FM)	Selects modes. (MUSIC ↔ VOICE ↔ LINE ↔ FM)
L/N		Enters Preset mode	Cancels the preset modes.
SRS		Converts Mono/Stereo	Converts Mono/Stereo
VOL+		Increases Volume	Increases Volume
VOL-		Decreases Volume	Decreases Volume

Power On/Off

■ Turning On the Power

Pressing the <▶/II> button once and long will turn on the power with the following LCD screen.



For Your Reference!

- Under the state of HOLD, HOLD screen is displayed but the power is not turned on.
- Charge the battery fully and then turn on the player. When the battery is completely discharged, the message "Low Battery" is displayed but the power is not turned on.
- If you press the <▶/II> button once and long, you will see a flickering of the LED lamp, showing the power being turned on.

■ Power Off

Pressing the <▶/II> button once and long will turn off the power with the following LCD screen..



For Your Reference!

- Under the state of Pause or Stop, if no further operation is made and the time for "Auto Power Off" exceeds designated time, then the power will be turned off automatically.
- After turning off the power, if the user presses the Play <▶/II> button long, then playback will resume at the very position of the latest song played. In this case, all the settings such as track numbers and equalizer are completely restored. (Second-Based Resume Function)
- Regardless of the resume function, the volume will be saved as 10 when the player was turned off with it's volume ranging from 0 to 10.
- Regardless of the resume function, the volume will be saved as 25 when the player was turned off with it's volume ranging from 25 to 30.

Changing Modes

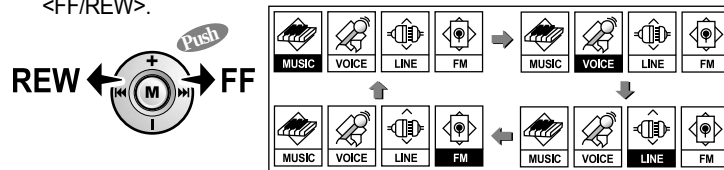
■ Changing Modes

There are 4 modes; MUSIC, VOICE, LINE, and FM.

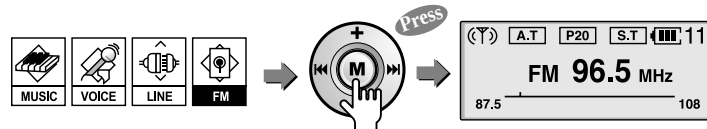
1. Press the <M> button long.



2. Move to the mode you want by pressing the <M> button to the direction of <FF/REW>.

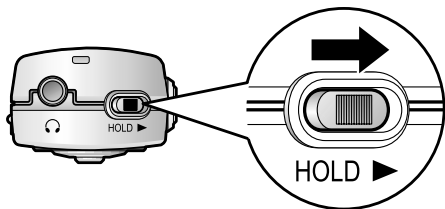


3. After the movement, if you press the <M> button, you will enter the mode.



Locking

1. Pushing the HOLD switch at the side of the player downward will lock the player.



2. If an operation is made under the state of HOLD, the followings will be displayed on the LCD panel for 1-2 seconds and disappear.



For Your Reference!

- Under the state of HOLD, no buttons will work.
- Under the state of HOLD, no power will be turned on. (Only HOLD screen will be displayed and disappear)

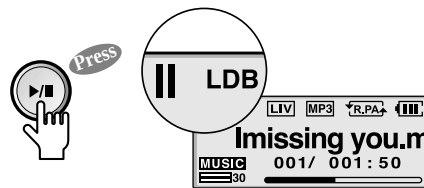
Listening Music

■ Playing/Pausing Music

If the <▶/||> button is pressed under the state of Stop or Pause, files will be played with <▶> display on the LCD screen.

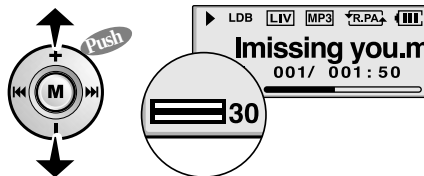


If the <▶/||> button is pressed during the state of Play, files will be paused.



■ Controlling Volume

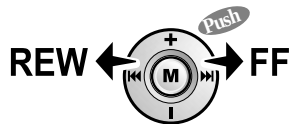
Pushing the <M> button to the direction of VOL+ / VOL- will adjust the volume with the following LCD display.



Selecting Music

■ Moving Playing Files

Move files by pushing the <M> button to the direction of FF/REW under the state of Stop, Pause and Play.



FF →



Pushing the button briefly to the direction of FF will move the player to the next track.

← REW



Pushing the button briefly to the direction of REW will move the player back to the previous track.

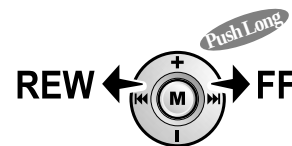
For Your Reference!

- Pushing the < M > button to the direction of FF/REW long under the state of Stop will lead to the fast movement between songs.

Selecting Music

■ Searching Songs During Playback

During the playback, pushing the <M> button long to FF/REW will let the player do a fast search to the current song forward and backward.



FF →



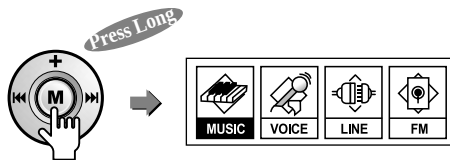
← REW



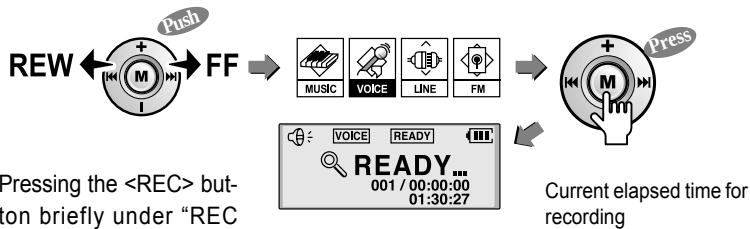
Recording Voice

■ Recording Voice

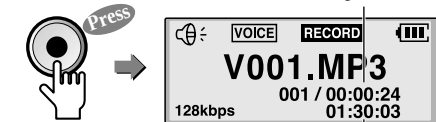
1. Press the <M> button long to enter the Mode menu.



2. Push the <M> button to FF/REW to move to the "VOICE" menu. Now press the <M> button to enter the "VOICE" mode.



3. Pressing the <REC> button briefly under "REC READY" will start the recording



Remaining time for recording in the memory

For Your Reference!

- During the voice recording, if you press the <▶/||> button briefly, the recording will stop. If you press the button again, the recording will resume.

Recording Voice

4. If you press the <REC> button again, the recording will stop with the following LCD display.



For Your Reference!

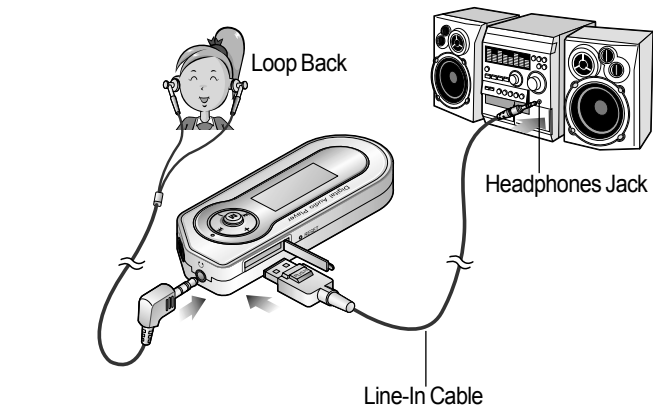
- After the voice recording, files will be saved as MP3 files into a Voice folder and will be seen as V001.MP3, V002.MP3, and etc.
- In Music mode, Pause/Play, if you press the <REC> button long, the status of the player will be Rec Ready.
- While recording voice, using VOR function will avoid any unnecessary recording and save the memory.
- When the recording reaches to the status of "Memory Full," the recording will stop automatically and only the files recorded just before the stop will be saved.
- The quality of the recording will be subject to the sensitivity or distance of the sound source.
- If the power is low, recording will not be performed properly.

■ Playing & Stopping Voice Recorded Files

- Under the state of Pause/Stop, press the <▶/||> button to play the voice recorded file.
- Under the state of Play, press the <▶/||> button to pause the voice recorded file.

Recording Music

1. Like the picture below, connect the LINE IN cable to both the player and a jack of the audio headphones (LINE OUT) that you want to record.

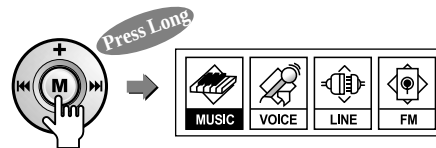


For Your Reference!

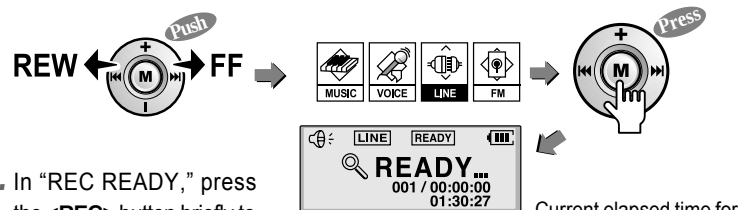
- By connecting external devices to the player, analog sound can be converted to digital sound and recorded and played.
- Recorded things can be heard through earphones. (Loop Back)

Recording Music

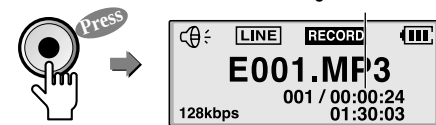
2. Press the <M> button long to enter the Menu mode.



3. After moving to the "Line" menu by pushing the <M> button to FF/REW, press the <M> button to enter the "LINE" mode.



4. In "REC READY," press the <REC> button briefly to record music.



Current elapsed time for recording

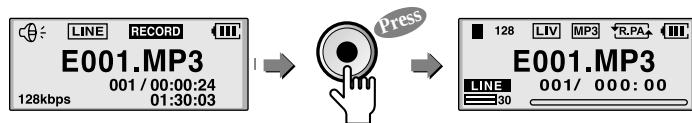
Remaining time for recording in the memory

For Your Reference!

- While recording music, if you press the <▶/||> button briefly, the recording will pause. If you press the <▶/||> button again, the recording will resume.

Recording Music

5. Pressing the <REC> button again will stop the recording with the following LCD display.



For Your Reference!

- After the music recording, they are stored as MP3 files into the LINE folder, named as E001.MP3.
- If the recording reaches to the "Memory Full," the music recording will stop automatically and only the files recorded immediately before the stop will be saved.
- If the power is low, recording will not be performed properly.

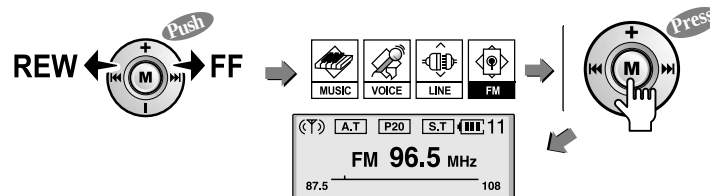
■ Playing & Stopping Music Recording

- If you press the <▶/II> button under the state of Pause/Stop, recorded files will be played.
- If you press the <▶/II> button during the playback, the recorded music files will pause.

Listening to FM Radio

■ Listening to FM Radio

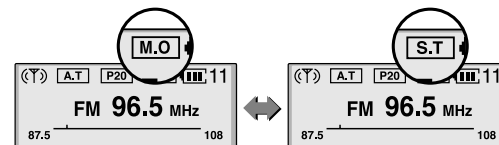
1. Press the <M> button long.
2. After moving to "FM" by pushing the <M> button to FF/REW, press the <M> button to receive the frequency of FM Radio.



- While receiving the FM Radio frequencies, pressing the <▶/II> button will let the user to select the "Receiving/Ready to Receive."

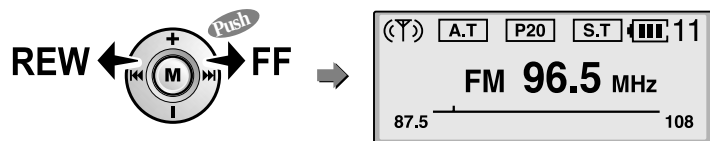
■ Setting Mono/Stereo

FM mode, press the <SRS> button briefly to select MONO/STEREO.



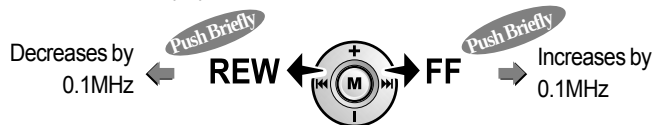
Scanning FM Radio Frequencies

In FM mode, push the <M> button to FF/REW to find desired frequencies.



■ Scanning Frequencies Manually

If you push the <M> button briefly to FF/REW, the frequencies will be increased or decreased consecutively by 0.1MHz.



■ Scanning Frequencies Automatically

If you push the <M> button long to FF/REW, the frequencies will be increased or decreased consecutively. During the scanning, the most receivable frequencies will be received.

For Your Reference!

- Earphones work as an antenna.
- Each FM Radio station uses a different range of frequencies and the range will be subject to change according to the regions and countries.

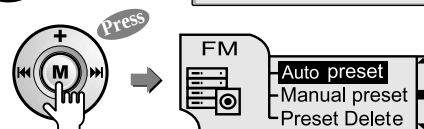
Saving FM Radio Frequencies

■ Saving FM Radio Frequencies Manually

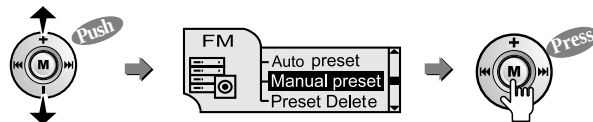
1. Search the frequencies to save by pushing the <M> button to the direction of FF/REW.



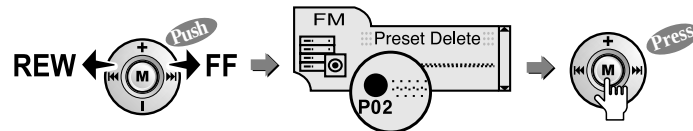
2. Press the <M> button briefly to enter the FM menu.



3. After moving to the "Manual Preset" by pushing the <M> button to the direction of VOL+/VOL-, press the <M> button.



4. After selecting the "Preset No" to save by pushing the <M> button to FF/REW, press the <M> button briefly to save it.



※ The desired frequency will be saved as Preset No.2.

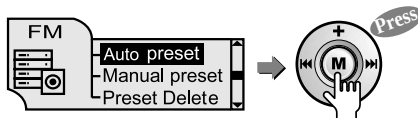
Saving FM Radio Frequencies

■ Saving FM Radio Frequencies automatically

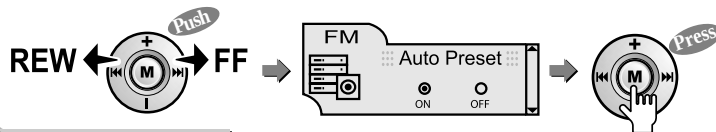
1. In an FM Radio Mode, press the <M> button briefly to enter the FM Menu.



2. Select the "Auto Preset" and press the <M> button.



3. Push the <M> button to select Auto Preset "ON" and press the <M> button briefly, then frequencies will be automatically set.

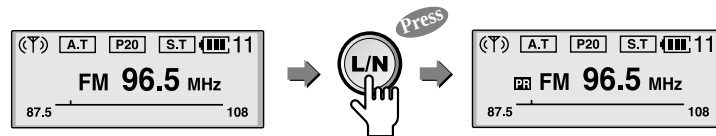


For Your Reference!

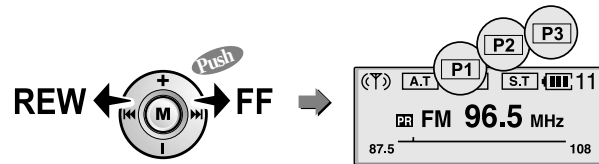
- After scanning the frequency up to 108.0MHz, the Preset No. will be changed to "P01" with a relevant frequency.
- Pushing the <M> button briefly to a direction of FF/REW during the "Auto Scanning" will stop the scanning.
- Earphones work as antenna for radio. When you save the frequencies of the FM radio automatically, be sure to connect the earphones to the player.

Entering Preset Mode

1. In an FM mode, press the <L/N> button briefly to enter the Preset mode.



2. Search the saved frequencies by pushing the <M> button to the direction of FF/REW.



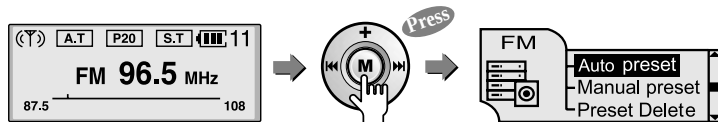
3. Pressing the <L/N> button once again will cancel the Preset mode.

For Your Reference!

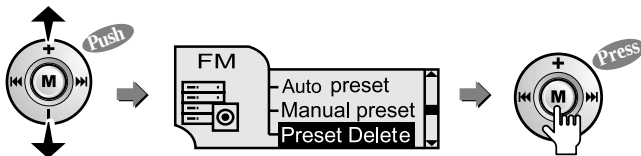
- You can only find the frequency users saved by entering the Preset mode.
- If there are no saved frequencies, the player does not enter Preset mode.

Deleting Saved Frequencies

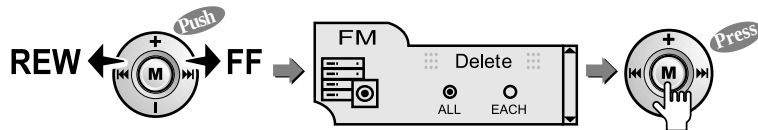
1. In an FM Radio mode, press the <M> button briefly to enter FM menu.



2. After moving to "Preset Delete" by pushing the <M> button to the direction of VOL+/VOL-, press the <M> button.



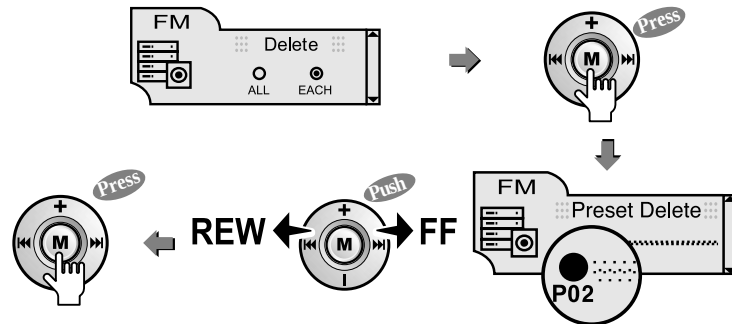
3. Select either EACH or All by pushing the <M> button to FF/REW, and press the <M> button.



Deleting Saved Frequencies

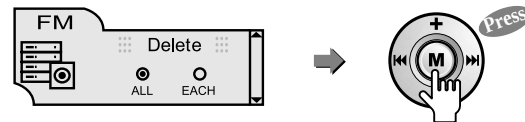
■ Selecting EACH

After selecting the Preset No by pushing the <M> button to FF/REW, delete it selectively by pressing the <M> button.



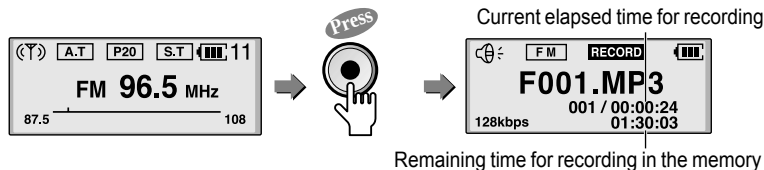
■ Selecting All

If you press the <M> button, all the saved presets will be deleted.



Recording FM Radio

1. While listening to FM Radio, pressing the <REC> button briefly will start recording.

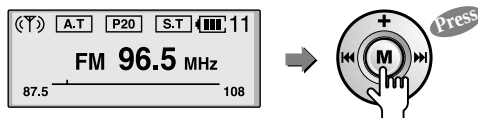


2. Pressing the <REC> button briefly again will stop the recording.
- Files that are recorded in FM Radio will be saved into FM folder as F001.MP3.

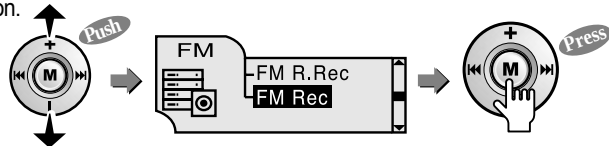
■ Adjusting Bitrates

While recording FM radio, users can adjust bitrates to 32, 64, 96, and 128 Kbps.

1. While listening to FM radio, press the <M> button to enter FM menu.

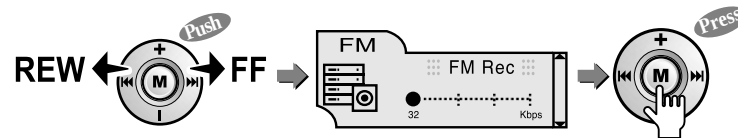


2. Push the <M> button to VOL+/VOL- to move into "FM Rec," and then press the <M> button.



Recording FM Radio

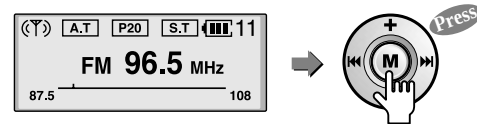
3. Select setting values by pushing the <M> button to FF/REW and press the <M> button again to save the values.



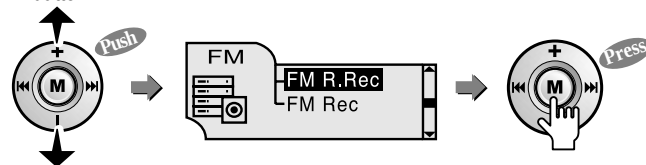
■ Preprogrammed Recording of FM

Users can set a preprogrammed recording at the time and days that they want to.

1. While listening to FM radio, press the <M> button to enter FM menu.



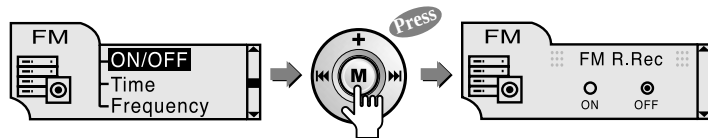
2. Push the <M> button to VOL+/VOL- to move into "FM R.Rec" and then press the <M> button.



Recording FM Radio

● On/Off

1. Press the <M> button to select ON/OFF.

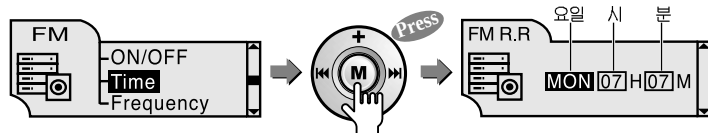


2. Push the <M> button to FF/REW to select either "ON" or "OFF" and then press the <M> button to save it.

ON : This sets the preprogrammed FM recording according to the time users set.
OFF : This cancels the preprogrammed FM recording.

● Time

1. Push the <M> button to VOL+/VOL- to select "Time."



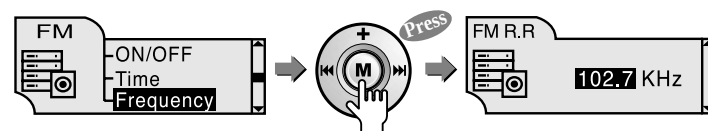
To move the location: Push the <M> button to FF/REW to move.
Changing the Setting Values: Push the <M> button to VOL+/VOL- to adjust the value.

Recording FM Radio

2. Press the <M> button to save the setting values.

● Frequency

1. Push the <M> button to VOL+/VOL- to select "Frequency."



To change the setting values: Adjust the value by pushing the <M> button to FF/REW.

For Your Reference!

- If Preset mode is active, setting values are controlled according to Preset No.
- If the Preset mode is released, the setting values will be controlled according to frequency.

2. Press the <M> button to save the setting values.

For Your Reference!

- If you set the preprogrammed FM recording, the recording will be performed with the power turned on even if the power is off.