

APPENDIX H
: USER'S MANUAL

Product Features



OS Firmware Upgradeable

By upgrading OS firmware, users will get the most recent OS updates through the Internet, giving them additional functions and file format support.



User-Centered EQ

It provides 5 basic EQs (Normal, Rock, Jazz, Classic, and Pop) and 10 user defined EQ, so that users can adjust high quality of music by setting the right preference of quality users want.



Fast Transmission Speed

Thanks to the support of the USB 2.0 interface, the maximum speed of the file transmission is 480Mbps.



Voice Recording

With a high-sensitive built-in microphone, it can be used as professional voice recorder having versatile functions.



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-have 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.



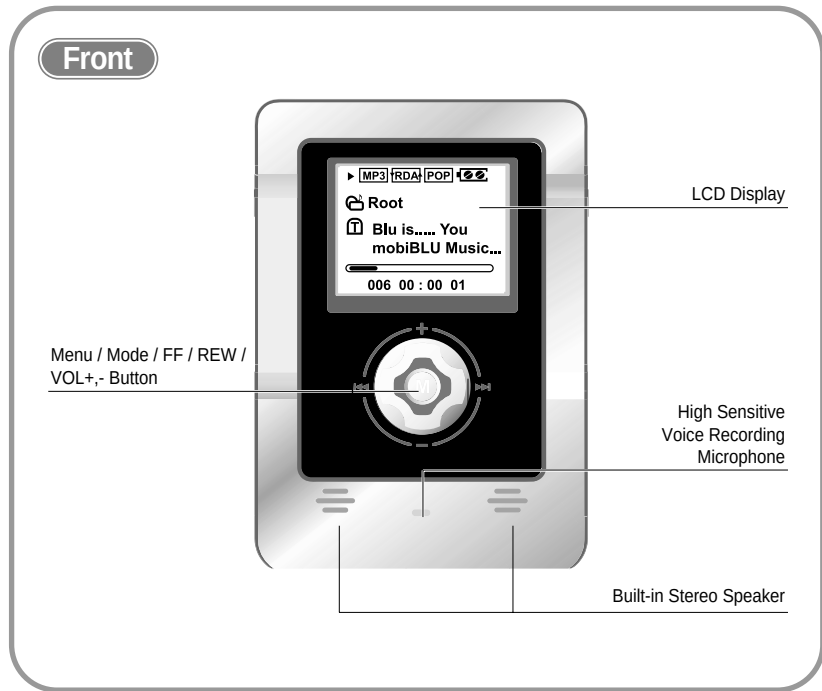
FM Radio Listening & Recording

You can enjoy FM radio programs as well as digital music such as MP3 and WMA. 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.

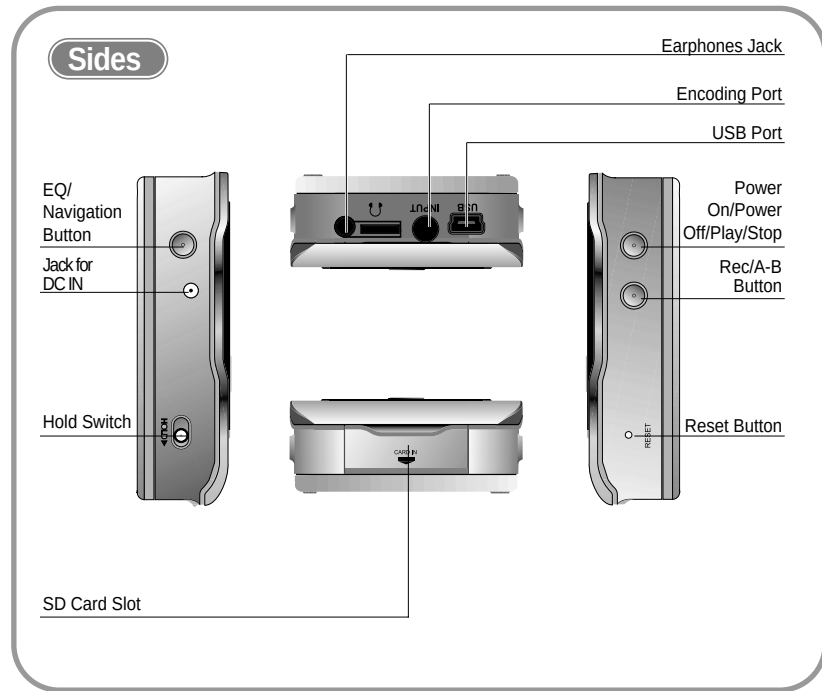
Specifications

Classification	Items	Specifications
FM TUNER	FM Frequency	87.5MHz ~ 108.0MHz
	Output	Max. Volume .7mW (16 Ω) (Headphones) Max. Volume 500mW (8 Ω) (Speakers)
	S/N Ration	50 dB
	Antenna	Cord Antenna for Headphones/Earphones
Audio	Frequency Characteristics	20Hz ~ 20KHz
	Output	Max. Volume .15mW (16 Ω) (Headphones) Max. Volume 300mW (8 Ω) (Speakers)
	S/N Ratio	90 dB
File Support	File Types	MP3, WMA
	Bit Rate	MP3:16~320Kbps, WMA:32~160Kbps
USB	Download speed	480Mbps
Recording Time		360 Hours for 5 GB. Voice Recording with Recording Mode of 32Kbps
Max. Playback Time		Approximately 10 Hours
Operation Temperatures		-5 °C~70 °C
Dimensions (W x L x H)		80 x56 x22.4 (mm)
Weight (including batteries)		100g
Batteries (Built-in)		4.2V Li-Polymer

Names of Each Part



Names of Each Part



USB Connection & Disconnection

- 3 After you see the message "Safely Remove Hardware", click "OK" and remove the cable.



For Windows 98 Users

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

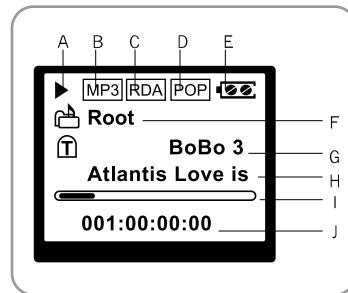


For Your Reference!!

- 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 a USB cable from PC while downloading, uploading, formatting, and OS updating may cause a serious failure to PC or the player.

LCD Display

Connecting Player to PC By Using USB Cable

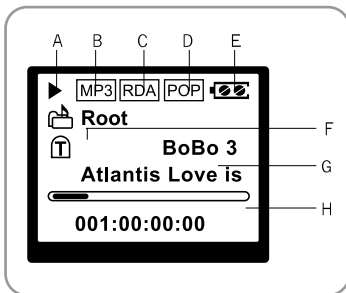


- A: Status of Files (Play/Pause/Stop)
B: Format of the Playing Files
C: Playing Modes
D: Equalizer
E: Remaining Battery

- F: Folder Name
G: ID 3 Tag
H: File Names
I: Play Position
J: Track Number, Elapsed Time

LCD Display

Connecting Player to PC By Using USB Cable



A: Receive/Ready to receive

B: Auto/Manual

C: Preset Number (1~20)

D: Mono/Stereo

E: Remaining Battery

F: Preset Modes

G: Frequency

H: Frequency Bar

Simple Key Operations

Music Playback 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)
 REC/A-B			Section Repeat: A <-> B/Cancel.
		Waits for voice/music recording.	Changes play modes. (Normal ⇨ Repeat ⇨ Repeat All ⇨ Random ⇨ Random All)

Simple Key Operations

Button	Time Pressed	Stop State	Play State
 EQ			Change of EQs (Normal⇒Rock⇒Jazz⇒Classic⇒ Pop⇒User EQ1~10)
		Executes navigation.	Executes navigation.
 VOL+		Volume 1 level up.	Turns the volume up 1 level.
		Volume up successively.	Turns the volume up successively.
 VOL-		Volume 1 level down.	Turns the volume down 1 level.
		Volume down successively.	Turns the volume down successively.

Music/Voice Recording Mode

Button	Time Pressed	REC Ready State	Recording State
 Rec		Voice Record/Music Record starts.	Voice Record/Music Record stops.
 MENU		Selects modes (MUSIC<->VOICE<->LINE<->FM)	

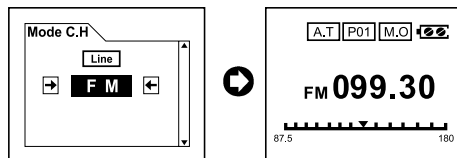
Simple Key Operations

FM Radio Mode

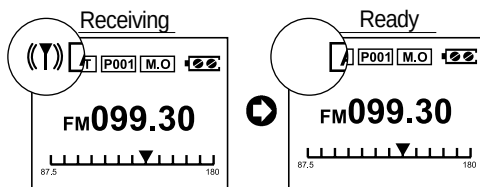
Button	Time Pressed	Ready to Receive State	Preset Mode
 PLAY/PAUSE		Starts to receive/Waits for receiving.	Starts to receive/Waits for receiving.
		Power off	Power off
 FF		Increases frequency 1 level up.	Moves to the next preset.
		Successively scans frequencies.	Moves to the next presets successively.
 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.
 MENU		Selects FM menus.	Selects FM menus.
		Selects modes. (MUSIC<->VOICE<->LINE<->FM)	Selects modes. (MUSIC<->VOICE<->LINE<->FM)
 REC/A-B			FM Radio records/stops.
 EQ		Enters the preset modes / Cancel the preset modes	Cancel the preset modes.
 VOL +/-		Volume 1 level up/down.	Turns the volume up/down 1 level.
		Volume up/down successively.	Turns the volume up/down successively.

Listening to FM Radio

- 1 Press the () button on the front long.
- 2 After moving to "FM" by pushing the () button on the front to VOL+/VOL- (), press the () button on the front to be ready for receiving the frequency of the FM Radio.



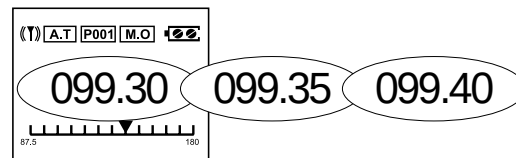
- 3 While receiving the FM Radio frequencies, pressing the Play () button will let the user to select the "Receiving/Ready for Receiving."



Scanning FM Radio Frequencies

Scanning FM Radio Frequencies

- In FM mode, push the () button on the front to FF/REW () to find desired frequencies.



Scanning Frequencies

If you push the () button on the front briefly to FF/REW (), the frequencies will be increased or decreased consecutively by 0.05MHz, and if you push it 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!!

Each FM Radio station uses a different range of frequencies and the range will be subject to change according to the regions and countries.

Listening Music

Playing/Pausing/Stopping Music

- If the Play (▶) button of the player is pressed under the state of Stop or Pause, files will be played with (▶) on the LCD screen.
- If the Play (▶) button of the player is pressed during the state of Play, files will be paused showing (⏸) on the LCD screen.
- If the Play (▶) button of the player is pressed under the state of Pause, the player will stop showing (■) on the LCD screen.

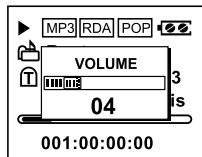
Controlling Volume

- Pushing the (◀▶) button on the front of the player to the direction of VOL+ / VOL- (◀▶) will adjust the volume with the following LCD display.



For Your Reference!!

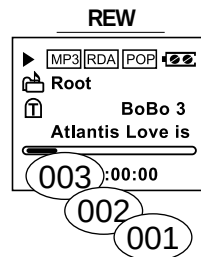
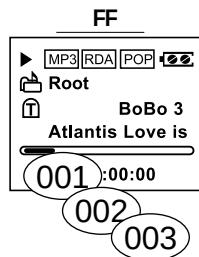
The Volume display will disappear after 2~3 seconds



Selecting Music

Moving Playing Files

- During the play mode, pushing the (◀▶) button on the front long to either FF/REW (◀▶) will let the player do a fast search the current song forward and backward.



Pushing the (◀▶) button on the front briefly to the direction of FF (▶) will move the player to the next track and REW (◀) will moves back to the previous track.



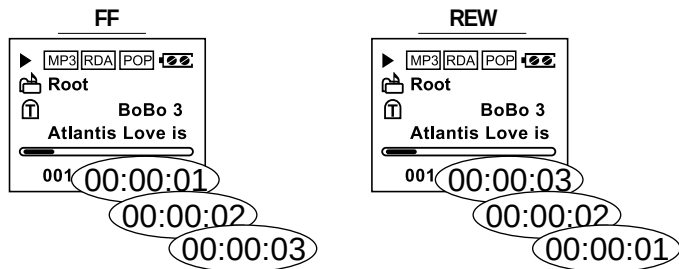
For Your Reference!!

Pushing the buttons long under the state of Stop and Pause will lead to the fast movement.

Selecting Music

Navigation During Playback

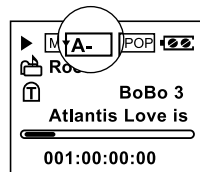
- During the playback, pushing the (⏮) button on the front long to either FF/REW (⏮) will let the player do a fast search the current song forward and backward.



Setting Section Repeats

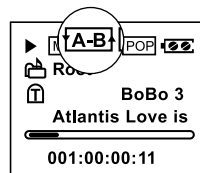
1 REPEAT A

During the play mode, press the REC (⏻) button briefly at the starting point of the section repeat.



2 REPEAT B

Pressing the REC (⏻) button once again briefly at the end of the section repeat will activate the section repeat and the interval will be repeatedly played.



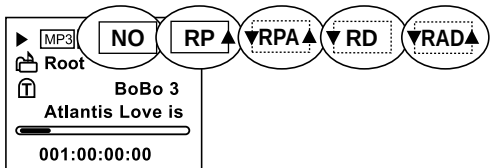
For Your Reference!!

If you don't specify the ending point of the section repeat, the end of the file will be the ending point automatically.

3 To cancel the section repeat, press the REC (⏻) button briefly.

Changing Play Modes

- If you press the REC (⊙) button long during the playback, the modes change in the order of Normal, Repeat, Repeat All, Random, and Random All.



NO Normal: Plays music files once in order.

RP Repeat: Plays a specified song repeatedly.

RPA Repeat All: Plays all the files repeatedly in order.

RD Random: Regardless of the order of the songs, they will be played randomly and stop automatically after playing the entire songs once.

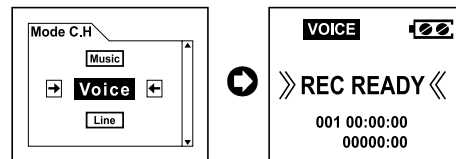
RAD Random All: Like Random, files are played continuously without stop.

Voice Recording

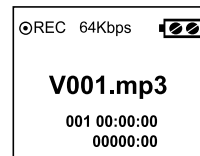
Voice Recording

1 Press the (⊙) button on the front long.

2 Pushing the (⊙) button on the front to VOL+VOL- (⊙) will lead you to the "VOICE" menu. Now press the (⊙) button on the front to enter the "VOICE" mode.

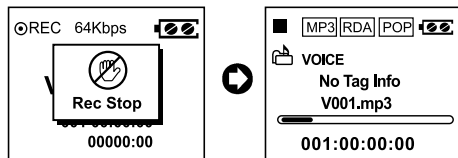


3 Pressing the REC (⊙) button briefly under "REC READY" will start the recording



Voice Recording

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 VOO1.MP3.
- During the VOICE recording, you can select the quality of the recording by adjusting the bit rates.
- If the voice 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.
- The player may make some sound due to the characteristics of the built-in hard disk during the voice recording.

Voice Recording

Playing & Stopping Voice Recorded Files

- Under the state of Pause/Stop, press the Play (⏮) button to play the voice recorded file.
- Under the state of play mode, press the Play (⏮) button to pause the voice recorded file.



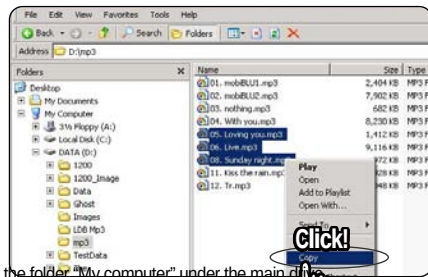
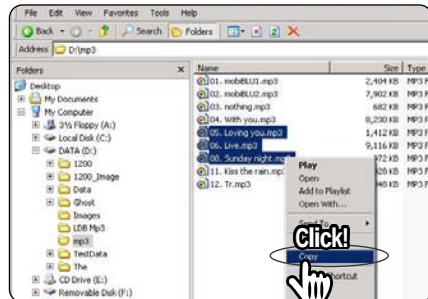
For Your Reference!!

After voice recording, pressing the REC (⊙) button long, under the state of Stop, will make the player REC READY, enabling continuous voice recording.

1 File Upload & Download

Connect the USB cable to the PC

and select the file(s) to download to the player from the PC by right-clicking "Copy" from the menu.



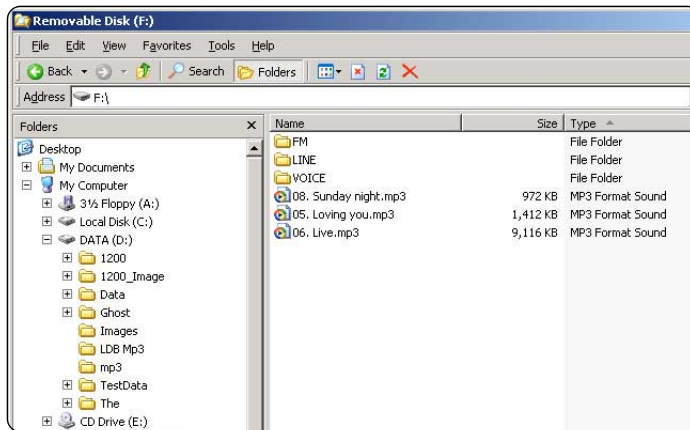
For Your Reference!!



The player will be recognized as a "Jukebox" in the folder "My computer" under the main drive. Don't disconnect the USB cable during the transfer of files. Otherwise, it may cause a fatal error to either your PC or the player.

Be sure to wind the core round the USB cable when transmitting data.
(This can block an electric wave emitted to the USB cable.)

File Upload & Download



Note

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 technical for help.
- Only shielded interface cable should be used.

Finally, any changes or modifications to the equipment by the user not expressly approved by the grantee or manufacturer could void the users authority to operate such equipment.

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

THIS DEVICE COMPLIES WITH PART 15 OF THE FCC RULES. OPERATION IS SUBJECT TO THE FOLLOWING TWO CONDITIONS: (1) THIS DEVICE MAY NOT CAUSE HARMFUL INTERFERENCE, AND (2) THIS DEVICE MUST ACCEPT ANY INTERFERENCE RECEIVED INCLUDING INTERFERENCE THAT MAY CAUSE UNDESIRE OPERATION.

MEMO

[illegible]

The exterior or dimensions are subject to change without prior notice to the customer in order to improve the product quality.