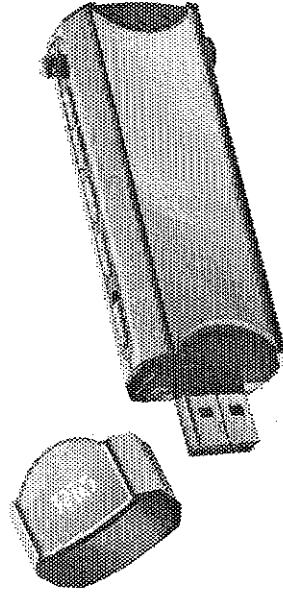


RiO®



DIGITAL AUDIO PLAYER
SU35

USER MANUAL

Thank you for purchasing our product. Please read this manual carefully before use.

RiO

DIGITAL AUDIO PLAYER **SU35**

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■ ■ ■ Brief Introduction ■ ■ ■

INTRODUCTION -- DIGITAL AUDIO PLAYER (DAP)

Thank you for purchasing the Digital Audio Player. Selecting fine audio equipment such as the unit you have just purchased is only the start of your musical enjoyment. Now it is time to consider how you can maximize the fun and excitement your equipment offers. This manual provides detailed operation instructions and features of the unit. Please read this manual carefully before using this product for the first time.

KEY FEATURES

- ◆ Multi-format player supports: MP3, WMA and WAV files.
- ◆ USB data transfer.
- ◆ Windows Plug & Play support for Windows ME, 2000, XP and Mac OSX.
- ◆ Windows 98SE compatible: Driver required.
- ◆ Built in FM tuner with auto scan and preset up to 10 stations.
- ◆ Voice recording and FM tuner records FM radio programs.
- ◆ Six different music equalizer levels.
- ◆ Full Graphic LCD for displaying information with seven color backlight.
- ◆ Power saving feature.
- ◆ Battery level indication.
- ◆ Firmware Upgradeable
 - Update the latest features via free download from the website at: <http://www.riobaudio.jp/>

PACKAGE CONTENTS

The packaging should include the following accessories:

- ◆ Digital Audio Player
- ◆ USB Cable
- ◆ Installation CD-ROM
- ◆ Stereo Earphones
- ◆ Carrying Pouch
- ◆ User Manual
- ◆ Quick Start Guide
- ◆ Neck Strap

CHARGING THE BATTERY

Insert your DAP directly into your Computer. The battery will automatically recharge through the computer (Figure 1). Or you can use the USB cable to connect the DAP and the computer to recharge the battery (Figure 2).

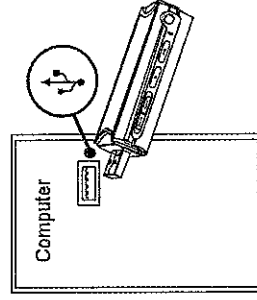


Figure 1

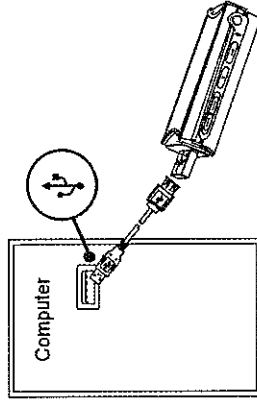
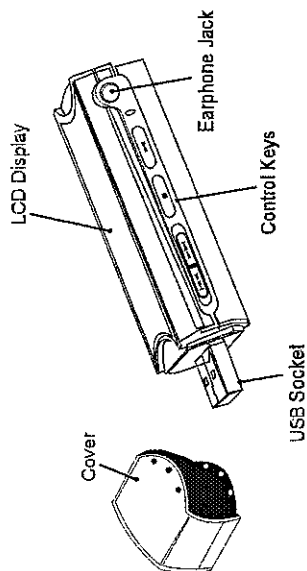


Figure 2

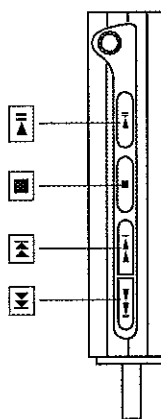
- Please charge the battery at least 4 hours for the first time before use.

PARTS DESCRIPTION



CONTROLS

Control Keys



Press to select the previous file.
Press and hold to fast rewind within the files.

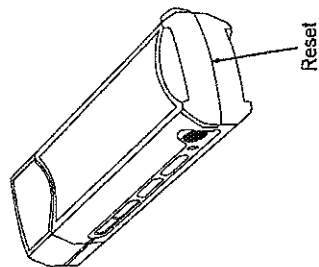
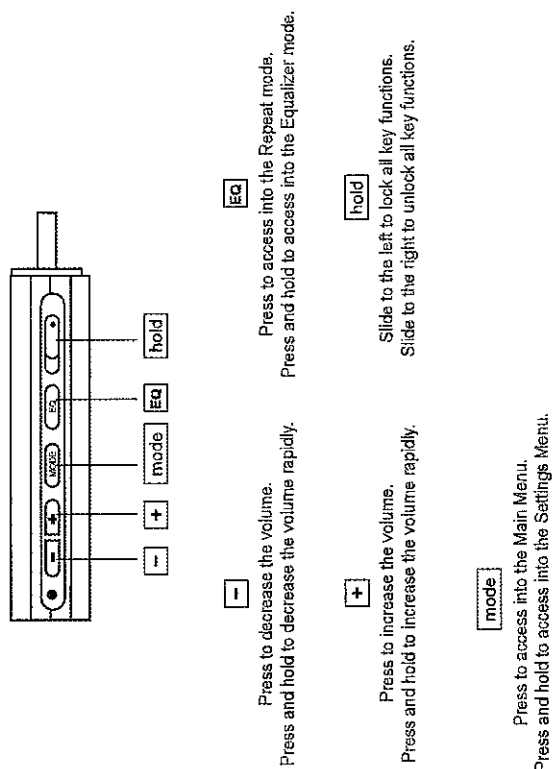
Press to select the next file.
Press and hold to fast forward within the files.

Press and hold to turn the player OFF.
Press to stop the music files.

Press to play or pause the music files.

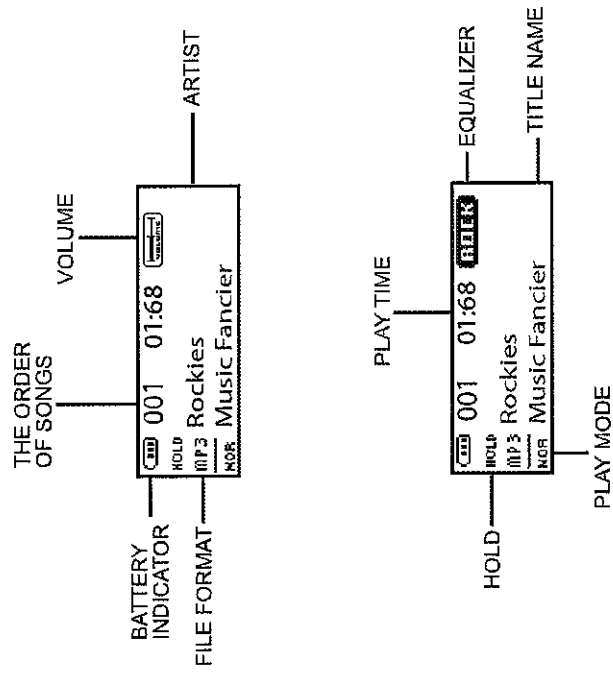
Press to turn the player ON.

3



4

LCD Screen



■ ■ ■ Downloading and Transferring Files ■ ■ ■

USB DRIVER INSTALLATION

For Windows ME, 2000 or XP:

These versions of Windows will automatically detect your DAP after connecting with the USB cable and the computer. (Please make sure the DAP is turned ON)

For Windows 98SE:

Windows 98SE will not recognize the player until you have installed the driver using the included installation CD-ROM. Follow the detailed instructions in this section to activate the USB mass storage function, so you will be able to transfer files from your computer to your player.

Installation Procedures for the Player Software (For Windows 98SE only)

When connecting the player to the computer for the first time, please follow these instructions:

1. Insert the CD-ROM into the CD Drive. The auto-run program will display as shown (Figure 1). Click "YES" to install the driver (Figure 2).

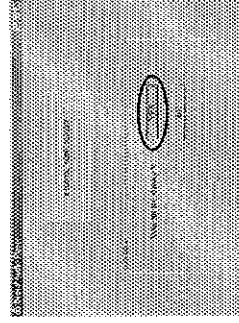


Figure 1

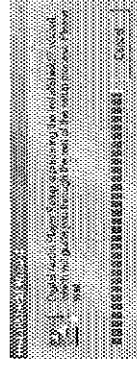
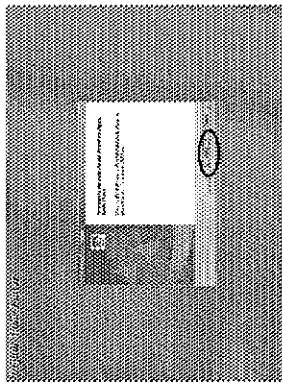


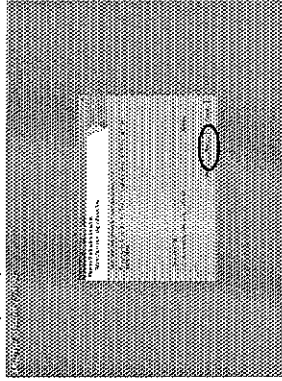
Figure 2

Remarks: If the setup does not start automatically, please run the install.exe in your CD-ROM drive directory. Double-click "Install.exe" in the installation CD.

2. Follow the on screen instructions to install the software.

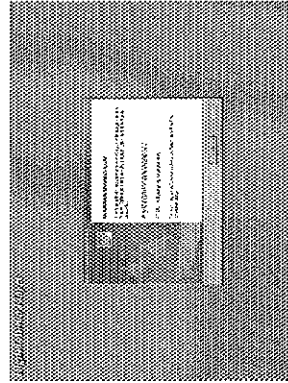


3. Install the software under the directory as prompted.

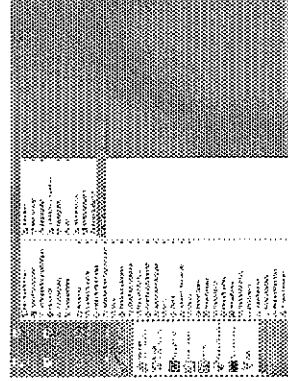


Warning: DO NOT change the installation path. Otherwise, the Player driver may not run properly.

4. After successfully installing the driver software, Windows will ask you to restart your computer system. Click "Yes" to restart your system.

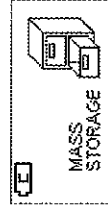


5. When the installation is completed, the new program will be added to the Program menu in the computer.

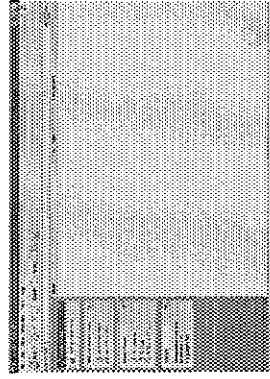


TRANSFERRING FILES

Connect the DAP to the computer by direct plug in or by using the supplied USB cable. Press the  button to turn the player ON. The following will be displayed on the LCD screen of your DAP player:



A "Removable Disk" will be added in My Computer. Open the "Removable Disk" folder:

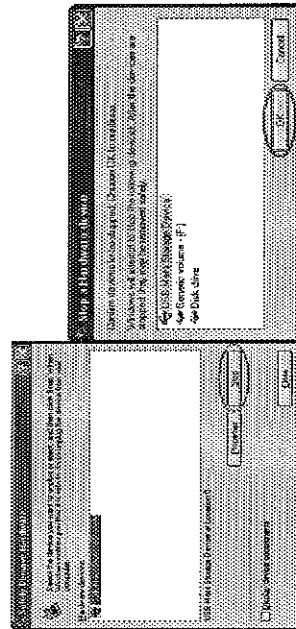


Locate the files you wish to copy from the computer to your DAP. Drag and drop MP3, WMA or WAV files on the computer into the "Removable Disk" folder. These files will now be copied into your DAP.

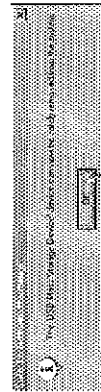
Note: When you are finished transferring files, use the Safely Remove Hardware procedure before disconnecting your player. (Please see the next section for detailed instructions.)

SAFELY REMOVE HARDWARE PROCEDURE

1. Double click the "Safely Remove Hardware" icon on the task bar
2. From the "Safely Remove hardware" window, select "USB Mass Storage Device" and click the "Stop" button. The "Stop a Hardware Device" window will pop up as shown:



3. Click "OK". A "Safe to Remove hardware" window will pop up. Now, it is safe to remove the USB Cable and your DAP player from the computer.



Remarks: If the "Safely Remove Hardware" icon is not displayed on the task bar, please double click on My Computer. Right click on "Removable Disk", then left click on "eject". Now it is safe to remove your DAP from the computer.

■ ■ ■ Operation ■ ■ ■

LISTENING TO MUSIC

After you have transferred MP3, WMA or WAV files from the computer to your DAP, you can start listening to music while you learn how to use the rest of the features.

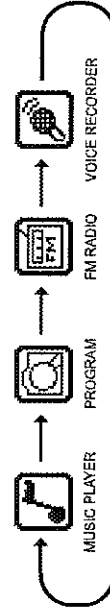
Insert the earphones into the earphone jack of the player; press the button to turn the player ON. The first song will immediately begin to play. Use the control keys to play, pause, stop, forward, reverse and adjust the volume.

USING THE MAIN MENU

Press the button to access the MAIN MENU. The following menu will be displayed on the LCD screen:



Press the or the button until your desired selection is highlighted and press the button to confirm the selection.



MUSIC PLAYER

To listen to any files or songs stored in your DAP or run the Program List, you can select the MUSIC PLAYER mode.



Using Special Functions

Equalizer Mode (EQ)

The current equalizer mode is displayed in the upper right hand corner of the LCD screen in a rectangular block with a black background.

Changing the EQ mode

- Press and hold the **EQ** button until the current mode is displayed with a clear block background. Keep pressing the **EQ** button repeatedly to select one of the six equalizer modes:
- ROCK JAZZ POP R&B CLASSIC FUNK**
- Stop pressing the **EQ** button when your desired selection is displayed with a clear background. The background will turn back to black after a few seconds.

Repeat Button

Press the **EQ** button repeatedly to select different repeat mode options. As each mode is selected, the following icons will be displayed on the left hand bottom of the LCD screen on your player:



- Play all the files in the player once.
- Randomly play all the files in the player once.
- Randomly play all the files in the player continuously.
- Play a single file repeatedly.

Play all the files repeatedly in consecutive order.

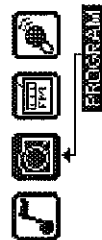
Edits and plays one section repeatedly. Press **mode** button once to start with point A and press **mode** button again to end with point B.

Plays the play list once. (The play list must be created before using this function.)

Plays the play list repeatedly. (The play list must be created before using this function)

PROGRAM

You may search for, listen to, and program the play list in the Program mode. Press the **mode** button and use the **EQ** or the **EQ** button to highlight the Program icon as shown.



Press the **EQ** button to confirm and access in the Program menu.

All the files are displayed on the LCD in the Root/ folder. FM recorded files are stored in the FM/ folder and voice recorded files are stored in the Voice/ folder.

Creating a play list

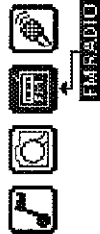
- Enter into the Program menu
- Press the **EQ** or the **EQ** button to highlight a desired song or file.
- Press the **EQ** button; a number icon (01, 02 etc.) will be displayed next to that song or file.
- Press the **EQ** button to confirm the song or file selection; the number icon will disappear and the file or the song will be added to the play list.
- Follow these steps with each file you would like to add to your play list.
- Press the **EQ** or the **EQ** button to exit the Program menu.

Note: You can only program the same file into the play list once. You cannot delete a file while it is playing

FM RADIO

The DAP has a built-in FM tuner with auto scan and ten station memory. Besides listening to your favorite station, you can also record a song or program.

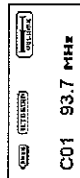
Press the **[MODE]** button and use the **[▶▶]** or the **[◀◀]** button to highlight the FM Radio **[FM]** as shown:



Press the **[▶▶]** button to confirm the FM Radio mode.

Setting FM Stations with Auto Scan

- If the **[PRESET]** icon is displayed in the LCD, press the **[▶▶]** button to clear it.
- Press and hold the **[▶▶]** button to begin auto scan. The **[AUTO SCAN]** icon will be displayed in the LCD. Each detected FM station will be stored in memory with a channel number icon from [C01] to [C10] next to the station frequency.

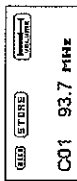


Note: Each time when performing the auto scan the previously preset channels will be overwritten by new FM stations detected. Only the last 10 FM stations will remain in the memory.

Setting FM Stations Manually

- If the **[PRESET]** icon is displayed in the LCD, press the **[▶▶]** button to clear it.
- Press the **[▶▶]** button to increase the FM frequency. To fast forward scan, press and hold the **[▶▶]** button. The scanning will stop as each FM Station is detected.
- Press the **[◀◀]** button to decrease the FM frequency. To fast rewind scan, press and hold the **[◀◀]** button. The scanning will stop as each FM Station is detected.

- To store each station into memory, press the **[▶▶]** button. The **[STORE]** icon will be displayed.
- Press the **[▶▶]** or the **[◀◀]** button; a channel number will appear next to the FM frequency in the LCD for the first time setting.
- To select a different channel number, use the **[◀◀]** or the **[▶▶]** button.
- Press the **[▶▶]** button to store this FM frequency in the selected channel number. (The **[STORE]** icon will clear from the LCD screen.)



Using the Preset Channels

- Press the **[▶▶]** button to display the **[PRESET]** icon.
- Use the **[▶▶]** button to select the next preset station and use the **[◀◀]** button to select the previous preset station.

Recording a FM Radio Station

- Press the **[EQ]** button to start recording.
- Press the **[▶▶]** button to stop recording.
- The recorded file is saved as a WAV format.

*Note: The volume is not controlled during recording. If the signal is weak, the **[STEREO]** icon will disappear and the system will operate in mono.*

VOICE RECORDER

Use your DAP to record quick reminder memos or even lengthy business meetings or lectures.

Press the **mode** button and use the **◀** or the **▶** button to highlight the Voice Recorder  icon as shown.



Press the **▶** button to confirm and enter the Voice Recorder mode.

Recording a Voice Message

- Press the **EQ** button to start recording.
- Press the **■** button to stop recording.
- The recorded file is saved as a WAV format.

Listening to the Recorded File

- Press the **▶** button to play the recorded file.
- Press the **■** button to stop playing the file.
- Press the **◀** button to select the previous recorded file.
- Press the **▶** button to select the next recorded file.

*Note: The volume is not controlled during recording.
You may select three different quality levels for recording*

Customizing The Player ■ ■ ■

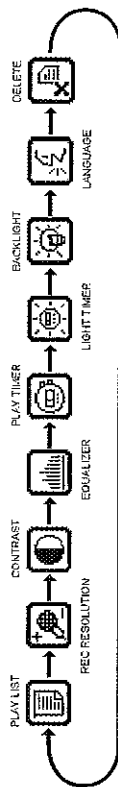
USING THE SETTING MENU

The Setting Menu provides the options to change the player settings, displays, and resolution.

Press and hold the **mode** button to display the SETTING MENU on the LCD screen.



Press the **◀** or the **▶** button to select one of the following setting options: Play List, Recording Resolution, Contrast, Equalizer, Play Timer, Light Timer, Back Light Color, Language or Delete File. Once your selection is highlighted then press the **▶** button to confirm.

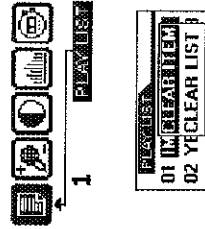


To exit the Setting menu, press the **mode** button.

Setting Features

Play List Setting

- Press the **▶▶** or the **◀◀** button to select the desired file.
- Press the **EQ** button; a [CLEAR ITEM / CLEAR LIST] box will be displayed on the LCD screen.
- Press the **▶▶** or the **◀◀** button to select clear item or clear list and press the **▶▶** button to confirm.
- Press the **▶▶** or the **◀◀** button to select [Yes / No] to clear the selection.
- Press the **▶▶** button to confirm the selection.



Note: If you have deleted or not programmed a play list, "Play list is empty" will display on the LCD screen.

Recording Resolution Setting

- Press the **▶▶** or the **◀◀** button to select one of the three voice recording resolution: Low, Normal, or High
- Press **◻** button to confirm the resolution selection.



Contrast Setting

- Press the **▶▶** or the **◀◀** button to adjust the LCD contrast level.
- Press **◻** button to confirm the contrast level.



Equalizer Setting

- Press the **▶▶** or the **◀◀** button to select one of the six music equalizer effects: Normal, Rock, Ultra Bass, Jazz, Pop, or Classical.
- Press the **◻** button to confirm the equalizer mode.



Play Timer Setting

- Press the **▶▶** or the **◀◀** button to select between ELAPSED TIME and REMAINING TIME.
- Press the **◻** button to confirm the play timer selection.



Light Timer Setting

- Press the **▶▶** or the **◀◀** button to select duration of the backlight timer: 5 sec, 10 sec, 20 sec, 60 sec or 180sec.
- Press the **◻** button to confirm the timer selection.



Back Light Color Setting

- Press the **▶▶** or the **◀◀** button to select one of the backlight colors for the LCD screen: Ocean, Forest, Rose, Grain, Sky, Lavender, or Cool.
- Press the **◻** button to confirm the backlight color selection.



Language Setting

- Press the **▶▶** or the **◀◀** button to select one of the languages: English, Traditional Chinese, Simplified Chinese, Korean, or Japanese.
- Press the **◻** button to confirm the language selection.



Delete File Setting

- Press the **▶▶** or the **◀◀** button to select one of the folders: Music/ folder for all the files or music files Record/ folder for all the FM or voice recording files.
- Press the **▶▶** button to confirm the folder selection.
- Press the **▶▶** or the **◀◀** button to select [Yes/No] to delete the file.
- Press the **▶▶** button to confirm to delete or not to delete the file.
- Press the **◻** button to return or exit from the delete file folder.



■ ■ ■ Additional Information ■ ■ ■

PRECAUTIONS

Copyright

- ◆ Making copies of MP3 tracks or files without permission is a violation of the international copyright laws.

Safety

- ◆ Vibration experienced during walking or exercising will not affect the player. However, dropping the player or dropping a heavy object on the player may result in damage or sound distortion.
- ◆ Avoid spilling any liquid onto or into the player.
- ◆ Do not leave the player in a location near extreme heat sources or in a car with the windows closed during excessive heat. Do not leave in a place subject to direct sunlight, excessive dust or sand, moisture, or rain.

FCC Warning:

- ◆ This equipment may generate or use radio frequency energy. Changes or modifications to this equipment may cause harmful interference unless the modifications are expressly approved in the instruction manual. The user could lose the authority to operate this equipment in an unauthorized change or modification is made.

On Headphones and Earphones

Road Safety

- ◆ Do not use the headphones/earphones while driving, cycling, or operating any motorized vehicle. It may create a traffic hazard and is illegal in some areas. It can also be potentially dangerous to play your headsets at high volume while walking, especially at pedestrian in potentially hazardous situations.

Preventing Hearing Damage

- ◆ Avoid using the headphones/earphones at high volume. Hearing experts advise not to play loud music for a long period of time. If you do experience ringing in your ears, reduce the volume or discontinue use.

Consideration for Others

- ◆ Keep the volume at a moderate level. This allows you to hear the sound and still be considerate to the people around you.

CE Warning:



The exclamation point within the triangle is a warning sign alerting the user of important instructions accompanying the product.



This unit must not be exposed to moisture or rain.



Ensure all connections are properly made before operating the unit.



This unit should be positioned so that it is properly ventilated. Avoid placing it, for example, close to curtains, on the carpet or in a built-in installation such as a bookcase.



Do not expose this unit to direct sunlight or heat radiating sources.

Declaration

This device complies with Part 15 of the FCC rules. Operation is subject to the following two conditions: (1) this device may cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

TROUBLE SHOOTING

Should any problem persist after you have checked these symptoms, please consult your dealer or contact the support site at <http://www.ricohaudio.jp/>

Symptom	Possible Reason	Actions
No Power	Check whether the battery is exhausted.	Recharge the battery.
No Sound from Earphones	- Check whether the earphones are detached from the unit. - Check whether the volume is set to "minimum". - Check whether the battery is exhausted. - Check whether the earphones jack is contaminated or oxidized. - Corrupted MP3 or WMA file.	- Re-insert the earphones again. - Increase the volume. - Recharge the battery. - Clean the earphones jack. - Download the file again.
Invalid Character On LCD	- Incorrect language setting. - The language is not supported.	- Set the correct language from the Language Setting mode. - Visit our web site to check whether a new version of firmware is release.
Poor FM Reception	- Weak Signal. - Electrical interference by other electrical appliances.	- Adjust the position of player and earphones. - Turn off the electrical appliances. - Walk away from interference sources.
Failed to Download or Upload of MP3/WMA/WAV files	- Check whether the battery is exhausted. - Check the connection of the USB cable. - Damaged USB cable. - Memory is full.	- Recharge the battery. - Re-plug the cable at both ends. - Replace a new USB cable. - Release some memory space by deleting some files.
Cannot record Voice or FM Tuner	Memory is full.	Release some memory space by deleting some files.

Important Notice: There are rare instances when your DAP will hang up. To reset, press and hold the **▶||** button then press the reset button.

TECHNICAL SPECIFICATIONS

Category	Item	Specification
Audio	Frequency Range	20Hz ~ 20KHz
	Headphone Output	20mW, 16ohm (Max. Vol)
	S/N Ratio	85dB (MP3)
File Support	MP3	MPEG 1/2/3 Layer 3
	WMA	Windows Media Audio
	WAV	ADPCM encoding
	Bit Rate	8kpbs ~ 320kpbs
	Tag Info	ID3 Tag
FM Tuner	FM Frequency Range	87.5MHz ~ 108 MHz
	Antenna	Headphone / Earphone Cord Antenna
	Dimension	87 x 29 x 20 mm
	Weight	Approximately 40gms (Battery included)
	Battery	Built-in rechargeable battery
	LCD	Full Graphic with 7-Color Backlight
	Language	English, Traditional Chinese, Simplified Chinese, Korean, Japanese
	USB	USB 1.1
	Built-in Memory	128MB or 256MB
	Max. Playtime	Approx. 10 hours (128kps, MP3)
Supported OS	Supported OS	Win 98SE (Driver is required)
		Win 2000, Win ME, Win XP
	Voice Recording	Approx. 9 hours (Low resolution)
	Firmware Upgradable	Yes
Operating Temperature		23°F ~ 104°F (5°C ~ 40°C)

Specifications are subject to change without notice.

UPGRADE FIRMWARE PROCEDURE

Occasionally, new software (firmware) may be released for this unit enhancing its functionality. For more information, please go to the web site at <http://www.rioaudio.jp/> for downloading procedure and downloading the latest firmware.

CARE AND MAINTENANCE

Your Digital Audio Player is a precision electronic device, and should not be subjected to rough handling or exposed to extreme temperatures or moisture. Do not use chemical agents or liquids to clean the unit, as they may damage the plastic.

Please Retain this Information for Future Reference

The manufacturer reserves the right to make any technical changes without notice in the interest of progress.

Declaration

Our company will not responsible for any mistakes in this manual. Prior notices will not be given in case of any amendments within the manual. The corresponding companies own the mentioned trademarks and names.

Microsoft Windows Media and Windows Logo are registered trademarks in the US and/or other countries. WinAmp and WinAmp logo are registered trademarks of Nullsoft Company. All other products are the trademarks or registered trademarks of their owners.

The player may lock up or temporary lose its function due to electrostatic discharge or other electrical disturbance, but it resumes its normal function by resetting the device.