User's Guide

Riō®

se510

Phenomenauts
www.phenomenauts.com
The Year 2000
WMA 128K 2.6MB

Riō

Package Contents

- Rio se510

- Installation CD

- Earphones

- Mini USB Cable

- Quick Start Poster

- Sports Case and Armband

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P/N 75550296-001_**B**

Table of Contents

Rio se510

6 - Help

Rio se510

iv

Chapter 1   # Getting Started

:: Welcome

Thank you for purchasing the Rio se510. The Rio se510 is a portable digital audio player that provides many hours of MP3 and WMA playback. The Rio se510 features a lighted LCD, a stopwatch, and multiple playback modes.

Learning More

- Refer to the Quick Start poster for the basics on how to set up and start using the Rio se510.

- Visit the Rio website at www.rioaudio.com.

Rio se510

:: Tour of the Rio se510

Rio se510

MENU

In Player mode, press to enter Menu mode.

In Menu mode, press to return to Player mode.

POWER

Press to power the Rio se510 on.

Press and hold to power the Rio se510 off.

LOCK/UNLOCK

Slide into the LOCK position to disable buttons and prevent accidental operation.

STOP

Press to stop playback.

VOLUME + and **-**

Press to adjust volume level.

PLAY/PAUSE

Press to play or pause playback.

CENTER

In Menu mode, press to select options.

In Player mode press to cycle through Time Code View, Track Format View, and Date View.

Press and hold to quickly set Bookmarks.

FORWARD and **REVERSE**

Press to skip to the next or previous track.

Press and hold to scan forward or reverse.

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Rio se510

LOCK/UNLOCK

Slide into the LOCK position to disable buttons and prevent accidental operation.

POWER

Press to turn the Rio se510 on.
Press and hold to turn the Rio se510 off.

VOLUME + and -

Press to adjust volume level.

EARPHONES

Connects to earphones, headphones, or auxiliary connections.

USB

Connects to the USB cable.

3

Rio se510

AAA Battery

Insert AAA-battery. The Rio se510 supports both alkaline and NiMH batteries.

Battery Compartment Cover

Remove to access the battery compartment.

4

:: LCD Overview

Rio se510

Player Mode

Repeat Playback Indicator

Shuffle Playback Indicator

Lock Indicator

Power Indicator

Volume Level

Artist

Album

Track

Phenomenauts
www.phenomenauts.co
The Year 2000

0:30

9/21

Track Position Bar

Track Time

Track Number/Total
Number of Tracks

Play Indicator

Menu Mode

Main Menu

Play Music

Bookmarks

Settings

FM Tuner

FM Record

Menu Title

Selected Option

Options

Rio se510

Time Code View

Astral
www.astralsf.com
Raining Down

Track Time ———— 2:10
Track Number/Total Number of Tracks ———— 10 / 19 ▶

Play Screens

Press **CENTER** to cycle through Time Code, Date, and Track Format, and EQ setting views.

Date View

Secret Synthi
www.secretsynthi.com
en Fight   Alrigh

Time ———— 12:11pm 6/20/2004 ———— **Month/Day/Year**
11 / 19 ▶

Track Format View

Eric Alexandrakis
www.myrainyday.com
Comes the Snow

Codec and Bitrate ———— WMA 128K 3.0MB ———— **Track Size**
6 / 20 ▶

Chapter 2

Connections

:: Basic Connections

This chapter describes how to connect the Rio se510 to earphones, mini USB cables, and alternate devices. Basic connections include:

Battery

The Rio se510 uses a single AAA-battery that can provide many hours of use. The Battery Compartment Cover must be removed before a battery can be installed.

Earphones

Connect the supplied earphones to the **EARPHONES** jack on the bottom of the Rio se510.

USB

The Rio se510 must be connected using the included USB cable to the USB port on your computer before music or files can be transferred to and from the Rio se510 and your computer.

Additional Accessories

Get the most out of your Rio se510 with additional accessories available online at the Rio website. Some of the most popular accessories include the following:

- **Rio se510 Sports Case and Armband**
  Replace sports cases and armbands that have been worn down by extreme sports and intensely active lifestyles.

- **Rio Car Stereo Adapter**
  Upgrade your car stereo for hundreds of dollars less than buying a new MP3 CD player. The Rio car stereo adapter connects to the earphone jack on the Rio se510 and lets you play your favorite music in any vehicle equipped with a standard cassette deck.

Rio se510

Chapter 3 Software Setup

Software Setup

Software found on the Rio installation disc should be installed on a computer before using the Rio se510. Rio Music Manager should be installed on computers that use the Windows operating systems.

Windows

Rio se510

:: **Windows**

Follow these instructions to load Rio Music Manager onto your PC.

1   Place the installation CD label-side up into the computer's CD-ROM drive.

The Rio installation software launches automatically.

2   Click **Rio Music Manager INSTALL NOW** (required) and follow the on-screen instructions.

3   If prompted, reboot the computer when the installation is complete.

> **Note**   • If Rio installation software does not display automatically, follow these steps to begin the installation manually:

4   Double-click the **My Computer** icon, , on the Windows desktop or taskbar.

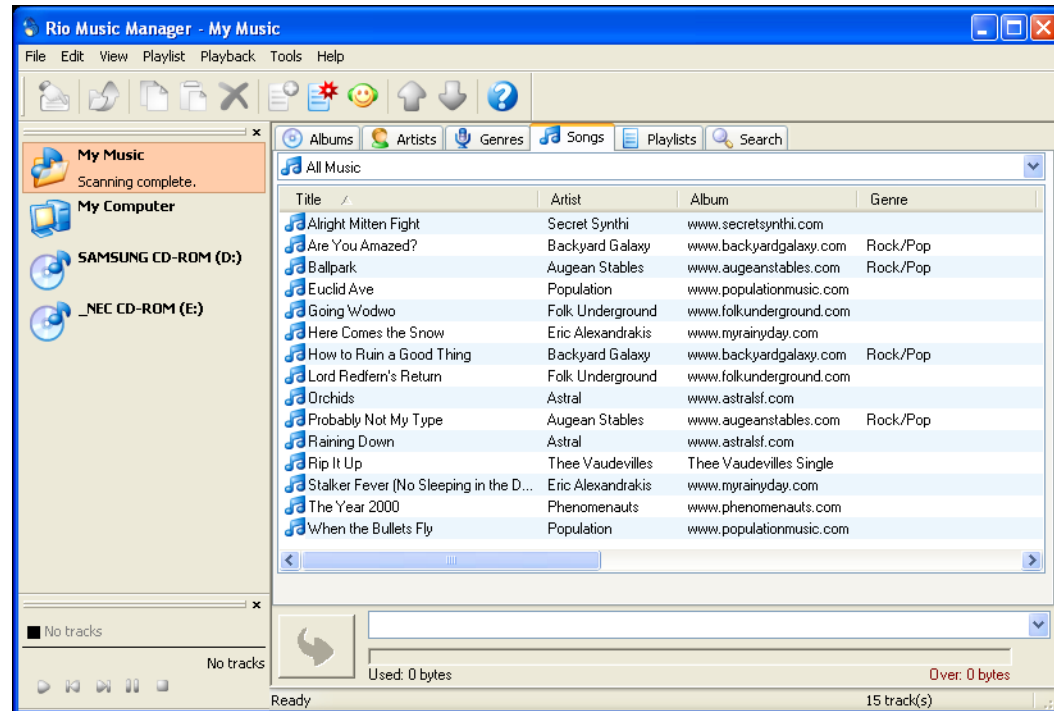**5**   Double-click the **CD-ROM** icon, .

6   Double-click the **Install** icon, .

7   Go to Step 2.

Rio Music Manager

Rio Music Manager is an all-in-one solution that can rip, encode, and manage entire collections of digital audio tracks. Rio Music Manager provides the following capabilities:

- Save (Rip and Encode) audio CDs into compressed digital audio formats. Rio Music Manager encodes WMA files by default and MP3 via an optional upgrade pack.

- Automatically Synchronize the music collection on your computer with your Rio se510.

- Edit ID3 Tags and WMA tags on digital audio tracks.

- Organize and manage digital audio tracks on your computer and your Rio se510.

- Search for tracks on your computer and your Rio se510.

- Create custom Playlists.

- Transfer tracks from your computer to your Rio se510.

Complete Rio Music Manager instructions can be found using the Rio Music Manager Help menu.

Rio se510

Rio se510

Chapter 4   Basic Operations

:: Basic Operations

Enjoying music on the Rio se510 is easy. Basic operations of the Rio se510 include:

Copy Tracks
Transfer Tracks
Control the Player
Play Music

:: Copy Tracks

Copying Tracks with Rio Music Manager

Copying tracks from Audio CDs involves two steps commonly known as ripping and encoding. Ripping and encoding refers to the process of ripping (copying) audio from a CD and encoding (saving) the audio content into a compressed digital audio format like MP3 or WMA.

1　Launch the Rio Music Manager.
2　Insert an Audio CD into your CD-ROM drive.
3　Click the CD-ROM icon on the Rio Music Manager Device List.
4　Use any of the following techniques to select tracks:

Track Type	Technique
Single track.	• Click the track.
Multiple tracks.	• Press **SHIFT+**Click or **CTRL+**Click.
All tracks.	• Press **CTRL+A**.
No tracks.	• Press **CTRL+N**.
Every track except for the currently selected tracks.	• Select **Edit**, **Invert Selection**.

5　Click ![arrow] to begin copying tracks to your computer.

• *Complete Rio Music Manager instructions can be found using the Rio Music Manager Help menu.*

Rio se510

:: Transfer Tracks

Rio Music Manager

Transferring tracks from the PC to the Rio se510 with the Rio Music Manager involves selecting tracks, then transferring them onto the Rio se510.

1 Launch the Rio Music Manager.
2 Click **My Music** in the left frame to access tracks. Rio Music Manager will scan the computer's hard drives for digital audio files that are compatible with the Rio se510. Files are automatically categorized by album title and displayed in the Track List.
3 Select tracks within a category of tracks. Categories include Albums, Artists, Genres, Songs, and Playlists.

   For example, if you wish to copy all tracks from a favorite artist onto the Rio se510, click the Artists tab and then use any of the techniques in **Step 4** to select the desired tracks.

4 Use any of the following techniques to select files:

File type	Technique
Single track, album, or artist.	• Click the track, album, or artist.
Multiple tracks, albums, and/or artists.	• Press **SHIFT+**Click or **CTRL+**Click.
All tracks, albums, and artists.	• Press **CTRL+A**.
No tracks, albums, or artists.	• Press **CTRL+N**.
Every track except for the currently selected tracks.	• Select **Edit**, **Invert Selection**.

5 After the tracks have been selected they can be copied to the Rio se510 by clicking   .

   • *Complete Rio Music Manager instructions can be found using the Rio Music Manager Help menu.*

Rio se510

Windows Explorer

Transferring tracks from the PC to the Rio se510 using Windows Explorer is as easy as Copy and Paste.

1   Connect the Rio se510 to a computer using the supplied USB cable.
2   Double-click **My Computer** on the Windows Desktop or in the Start Menu.
3   Locate MP3 or WMA audio files on the computer.
4   Highlight files and/or folders to transfer to the Rio se510.
5   Click **Edit**.
6   Click **Copy**.
7   Double-click **My Computer** on the Windows Desktop or in the Start Menu to open another window.
8   In the new window, locate the **Rio se510 (*X:*)** icon that is associated with the Rio se510. (*X* equals the drive letter assigned to the Rio se510.)
9   Double-click **Rio se510 (*X:*)**.
10 Click **Edit**.
11 Click **Paste**.

Any type of file can be transferred using this method but to assure full functionality, Playlists and copy protected music using Digital Rights Management (DRM) should be transferred to Rio players using Rio Music Manager.

• Files and folders can also be transferred to and from the Rio se510 using drag-and-drop techniques. This method is excellent for turning the Rio se510 into a portable hard drive that can transfer files to and from any computer.

Rio se510

Rio se510

:: **Control the Player**

The controls on the Rio se510 work as follows:

- **POWER**
  Press to turn the Rio se510 on. Press and hold to turn the Rio se510 off.

- **MENU**
  In Player mode, press to enter Menu mode. In Menu mode, press to return to Player mode.

- **CENTER**
  In Player mode, press to cycle through Play Screens. In Menu mode, press to select menu options.

- **PLAY/PAUSE**
  In Player mode, press to play or pause playback. In Menu mode, press to control menu navigation.

- **FORWARD** and **REVERSE**
  In Player mode, press to skip to the next or previous track. Press and hold to scan forward or reverse through a track. In Menu mode, press to control menu navigation.

- **STOP**
  In Player mode, press to stop playback. In Menu mode, press to control menu navigation.

- **VOLUME +** and **-**
  Press to adjust volume level.

- **LOCK/UNLOCK**
  Slide into the **LOCK** position to disable buttons and prevent accidental operation.

Controls

Locations of all controls can be found on pages 2 and 3.

16

:: **Play Music**

The Rio se510 can play audio tracks using a variety of playback methods. Any method can be used within a matter of seconds so you can spend more time enjoying tracks and less time arranging them.

Main Menu
- Play Music
- Bookmarks
- Settings
- Stopwatch
- About

Play All
Album
Artist
Genre
Track
Year
New Music
Playlist
Spoken Word

Rio se510

Rio se510

Play All

To play all tracks on the player please follow these steps:

1   Press **MENU**.
2   Select **Play Music**.
3   Select **Play All**.

Album

To play tracks from specific albums please follow these steps:

1   Press **MENU**.
2   Select **Play Music**.
3   Select **Album**.
4   Select an album.
5   Select **Play All** or a specific album.
6   If a specific album is selected, select **Play All** or a specific track.

Artist

To play tracks from a specific artist please follow these steps:

1   Press **MENU**.
2   Select **Play Music**.
3   Select **Artist**.
4   Select **Play All** or a specific album.
5   If a specific album is selected, select **Play All** or a specific track.

Genre

To play tracks from a specific genre please follow these steps:

1   Press **MENU**.
2   Select **Play Music**.
3   Select **Genre**.
4   Select **Play All**, a specific genre, or **[none]**.
5   If a specific genre is selected, select **Play All** or a specific track.

Track

To play a specific track please follow these steps:

1   Press **MENU**.
2   Select **Play Music**.
3   Select **Track**.
4   Select **Play All** or a specific track.

Year

To play tracks from a specific year please follow these steps:

1   Press **MENU**.
2   Select **Play Music**.
3   Select **Year**.
4   Select **Play All** a specific year, or **[none]**.

New Music

Select to compose a running order composed of the most recently transferred tracks during a set amount of time. The most recently transferred tracks are played first. To play tracks using **New Music** please follow these steps:

1   Press **MENU**.
2   Select **Play Music**.
3   Select **New Music**.
4   Select **1 day** (the default setting), **2 days**, **1 week**, or **1 month**.

Rio se510

19

Playlist

To play tracks from playlists created in Rio Music Manager please follow these steps:

1 Press **MENU**.
2 Select **Play Music**.
3 Select **Playlist**.
4 Select **Play All** or a specific playlist.

Spoken Word

Select to play tracks formatted using the Audible #2 and #3 formats. To play spoken word tracks please follow these steps:
1 Press **MENU**.
2 Select **Play Music**.
3 Select **Spoken Word**.
4 Select **Play All** or a specific Audible track.

- *Audible tracks can only be transferred to the Rio se510 using the Audible Manager application.*

- *When in spoken word mode, the Rio se510 display's the following icon:*

- *When in spoken word mode, press **FORWARD** or **REVERSE** to skip from one section of the track to another.*

Chapter 5   Advanced Features
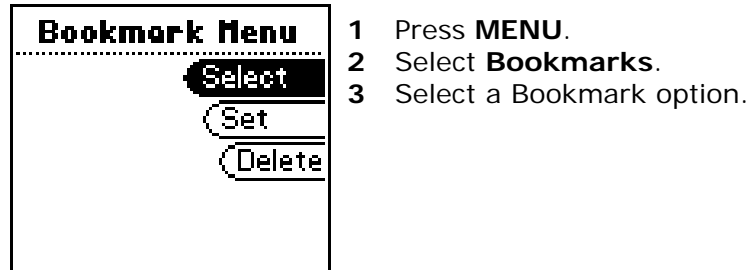
:: Advanced Features

Advanced features of the Rio se510 include:

Bookmarks
Settings
Stopwatch
About

Rio se510

:: **Bookmarks**

Bookmarks store specific player settings, including the current running order, the current track, the current time position of the track, and the Playback settings. Users can save these settings in a bookmark and restore them whenever they use the Rio se510. Bookmarks are great for:

- Placing digital bookmarks in digital audio books or other extended length tracks.
- Maintaining positions in long term running orders.
- Sharing your player with others without losing personal settings.

Bookmark Menu

Select

Set

Delete

1 Press **MENU**.
2 Select **Bookmarks**.
3 Select a Bookmark option.

Bookmark options include:

- **Select**
  Select a bookmark. Press **CENTER** to restore the selected bookmark settings.

- **Set**
  Select a bookmark. Press **CENTER** to save the current settings to a bookmark.

- **Delete**
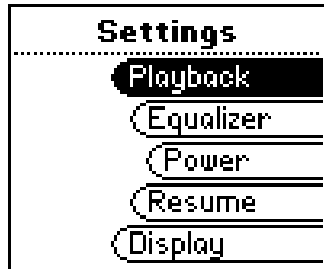 Select a bookmark. Press **CENTER** to delete the selected bookmark.

- *In Player mode, press and hold **CENTER** to quickly bookmark the current settings.*
- *The Rio se510 automatically saves user settings when it is turned off. These settings are automatically restored when the Rio se510 is turned on. Settings saved automatically are not saved as a bookmarks.*

Rio se510

:: Settings

Rio se510 settings include:

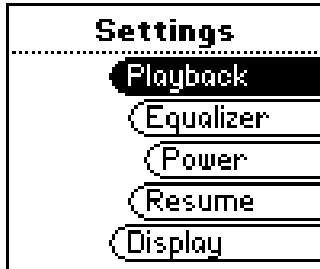Playback
Equalizer
Power
Resume
Display
Time
Language
Lock Setup
Tags

Playback

Various playback settings can be set to modify the way the Rio se510 plays tracks. Tracks can be shuffled at random and/or repeated continuously.

```
Settings
Playback
Equalizer
Power
Resume
Display
```

1 Press **MENU**.
2 Select **Settings**.
3 Select **Playback**.
4 Select **Playback** options.
5 Press **CENTER** to apply settings.

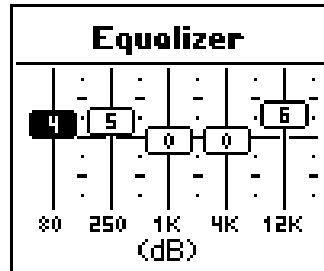**Plackback** options include:

- **Shuffle**
  Set selected tracks to play in standard or random order. Settings include **Off** (the default setting) and **On**.

- **Repeat**
  Set selected tracks to repeat playback of all tracks or the current track. Settings include **Off** (the default setting), **All**, and **One**.

Rio se510

24

Equalizer

The sound of tracks played on the Rio se510 can be adjusted using various preset and fully customizable equalizer options. Equalizer settings include:

Custom

Custom mode allows the Rio se510's settings to be adjusted according to personal preferences.

1 Press **MENU**.
2 Select **Settings**.
3 Select **Equalizer**.
4 Select **Custom**.
5 Adjust 5-band equalizer. Press **FORWARD** or **REVERSE** to navigate between frequencies. Press **PLAY/PAUSE** or **STOP** to boost or cut the Gain of the frequency.
6 Press **CENTER** to save settings and return to Player mode.

EQ Off

Select the **EQ Off** equalizer option to apply no equalizer adjustments to audio content on the Rio se510.

1 Press **MENU**.
2 Select **Settings**.
3 Select **Equalizer**.
4 Select **EQ Off**.
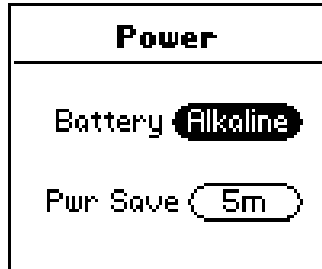5 Press **CENTER** to set the **EQ Off** equalizer option and return to Player mode.

Preset

Select a **Rock**, **Jazz**, **Classical**, **Pop**, or **Trance** equalizer option to change the sound of tracks according to the selected preset settings.

1 Press **MENU**.
2 Select **Settings**.
3 Select **Equalizer**.
4 Select **Rock**, **Jazz**, **Classical**, **Pop**, or **Trance**.
5 Press **CENTER** to set the selected equalizer option and return to Player mode.

Rio se510

Power

By adjusting the **Power** settings the Rio se510 can conserve energy and extend the amount of playback time during each battery charge.
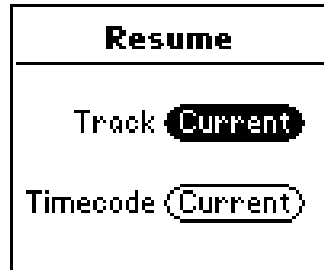
```
Power
─────────────

Battery (Alkaline)

Pwr Save ( 5m )
```

1 Press **MENU**.
2 Select **Settings**.
3 Select **Power**.
4 Select a **Pwr Save** setting.
5 Press **CENTER** to apply settings and return to Player mode.

Power options include:

• **Pwr Save**
Set the Rio se510 to enter shutdown after being idle for a specific number of minutes. Settings include **1m**, **5m** (the default setting), **10m**, **30m**, and **Never**.

Resume

Use the options in the **Resume** menu to set the track that the Rio se510 will play whenever it is powered on.
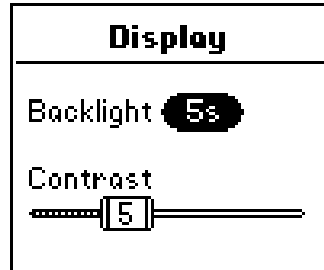
```
   Resume

Track  Current

Timecode  Current
```

1 Press **MENU**.
2 Select **Settings**.
3 Select **Resume**.
4 Select **Resume** options.
5 Press **CENTER** to apply settings and return to Player mode.

Resume options include:

- **Track**
  Set the Rio se510 to begin playback of the last track played before shutdown or the first track in the running order when the Rio se510 is powered on. Settings include **Current** (the default setting) and **First**.

- **Timecode**
  Set the Rio se510 to begin playback of the last track played at the point the track was at during shutdown or at the start of the track. Settings include **Current** (the default setting) and **Start**.

Rio se510

Display

Use the **Display** menu to adjust backlight and contrast settings.

1. Press **MENU**.
2. Select **Settings**.
3. Select **Display**.
4. Adjust **Backlight** options and **Contrast** settings.
5. Press **CENTER** to apply settings and return to Player mode.

Display options include:

- **Backlight**
  Set the backlight on the Rio se510 to shut itself off after a specific number of seconds. Settings include **Off**, **2s**, **5s**, (the default setting) **10s**, **20s**, and **On**. **On** sets the backlight to remain lit constantly.
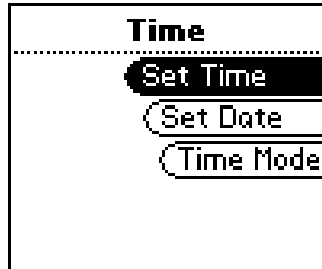
  - *To conserve battery life, the **On** setting should rarely be used.*

- **Contrast**
  Press **FORWARD** and **REVERSE** to control the contrast slider. Use the contrast slider to set how light or dark the images on the LCD will appear. Setting the contrast too high will result in washed out images. Setting the contrast too dark will result in images that are too dark to read.

Time

Use the options in the **Time** menu to set the Rio se510's internal clock. Time is set automatically every time tracks are transferred to the Rio se510 using Rio Music Manager.

```
Time
Set Time
Set Date
Time Mode
```

1 Press **MENU**.
2 Select **Settings**.
3 Select **Time**.
4 Select **Set Time**, **Set Date**, or **Time Mode** options.
5 Press **CENTER** to apply settings and return to Player mode.

Time settings include:

• **Set Time**
  Options include **Hour**, **Minute**, and **AM / PM**.

• **Set Date**
  Options include **Month**, **Day**, and **Year**.

• **Time Mode**
  Options include **12 hour** (the default setting) and **24-hour** time formats and **USA** (the default setting), **Europe**, and **Japan** date formats.

Language

The Rio se510 menus can be set to display in one of seven languages.

1 Press **MENU**.
2 Select **Settings**.
3 Select **Language**.
4 Select a **Language** setting.
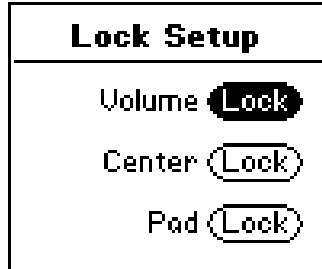**5** Press **CENTER** to set the display language and return to Player mode.

- *To return to the language menu from any language setting, press **MENU**, select the **third** option, then select the **seventh** option.*

Language settings include:

- **English** (the default setting)
  Set the display language to **English**.

- 日本語

  Set the display language to **Japanese**.

- **Deutsch**
  Set the display language to **German**.

- **Français**
  Set the display language to **French**.

- **Español**
  Set the display language to **Spanish**.

- **Italiano**
  Set the display language to **Italian**.

- **Portugués**
  Set the display language to **Portuguese**.

Lock Setup

Use the options in the **Lock Setup** menu to enable various controls when the lock is enabled.

```
Lock Setup

Volume (Lock)

Center (Lock)

Pad (Lock)
```

1 Press **MENU**.
2 Select **Settings**.
3 Select **Lock Setup**.
4 Select **Lock Volume** and **Control Pad** options.
5 Press **CENTER** to apply settings and return to Player mode.

Lock Setup settings include:

- **Volume**
  Options include **Lock** (the default setting) and **Off**. When set to **Off**, the volume level can be adjusted even when the Rio se510 has been locked.

- **Center**
  Options include **Lock** (the default setting) and **Off**. When set to **Off**, pressing **CENTER** will scroll through Time Code View, Track Format View, and Date Views even when the Rio se510 has been locked.

- **Pad**
  Options include **Lock** and ▶/❚❚ **(PLAY/PAUSE)**. When set to ▶/❚❚, any **CONTROL PAD** movement will be interpreted as the ▶/❚❚ control.

Rio se510

31

Tags

Adjust **Tags** menu settings if the Rio se510 displays random alphabet characters instead of the correct ID3 Tags. The Rio se510 supports Latin- and Japanese-based languages. If ID3 tags are displayed properly then **Tags** menu settings do not need to be changed.

Rio Music Manager encodes tracks tags using the Unicode method. Properly tagged (Unicode) tracks are unaffected by changes to the **Tags** settings. All WMA tracks are Unicode.

```
        Tags


Encoding
    ASCII
```

1 Press **MENU**.
2 Select **Settings**.
3 Select **Tags**.
4 Select **ASCII** (the default setting), **UTF-8**, or **Shift-JIS**.
5 Press **CENTER** to apply settings and return to Player mode.

Tags settings include:

- **ASCII**
  Select to read ID3 tags that are encoded using the ASCII Latin alphabet. ASCII is an acronym for American Standard Code for Information Interchange.

- **UTF-8**
  Select to read ID3 tags that are encoded using the UTF-8/Unicode format. UTF-8 is backwards compatible with ASCII. UTF is an acronym for Unicode Transformation Format

- **Shift-JIS**
  Select to read ID3 tags that are encoded using the Shift-JIS format. Shift-JIS is a character encoding format created by Microsoft that is based on the Japanese Industrial Standard format.

Rio se510

:: Stopwatch

Use the stopwatch to keep track of time-sensitive events while listening to music.

1 Press **MENU**.
2 Select **Stopwatch**.
3 Press **CENTER**.

Lap statistics are displayed at the bottom of the **Stopwatch** screen. When a new lap is set, the difference, either faster (**-**) or slower (**+**) between new lap times and the average laptime is displayed for a few moments.
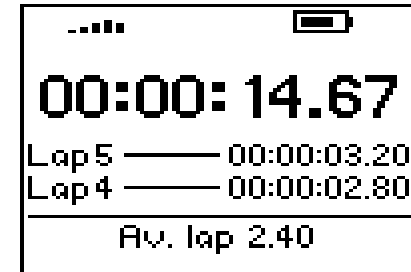
When in **Stopwatch** mode, the controls work in the following ways:

- **MENU**
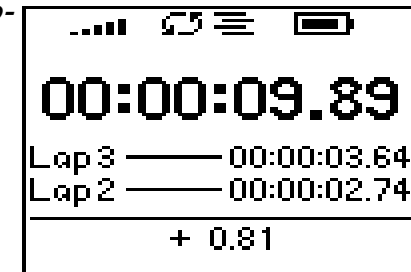 Press to return to the **Main Menu**.

  Note - *Pressing **MENU** and using other player functions will not turn the timer off. The timer will continue to run until **PLAY/PAUSE** is pressed while in **Stopwatch** mode.*

- **PLAY/PAUSE**
  Press to start and stop the timer.

- **CENTER**
  Press to set a lap time. Press and hold to return to single lap display. Multiple laps and lap averages will be lost.
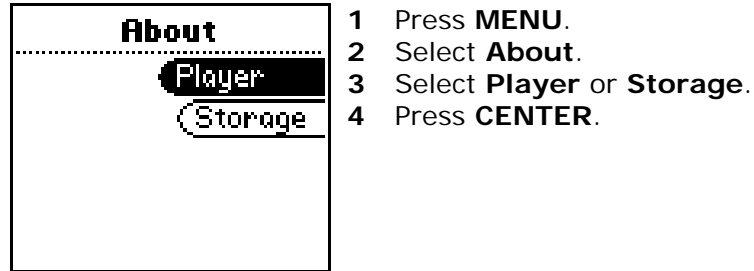
- **STOP**
  Press to reset timer.

Average Lap Time

Lap Difference

Rio se510

:: About

The about screen displays information about the Rio se510. Information includes the total amount of memory on the Rio se510, the amount of free memory, the number of tracks on the Rio se510, and the Firmware version.

1 Press **MENU**.
2 Select **About**.
3 Select **Player** or **Storage**.
4 Press **CENTER**.

About options include:

• **Player**
  Displays firmware version, copyright, and Rio website information.

• **Storage**
  Press **CENTER** to cycle through displays of memory usage graphic bar and memory usage (MB used/MB capacity), the total number of tracks, the total duration of all tracks, the number of playlists, and the number of personal files stored on the Rio se510.

Chapter 6   **Help**

:: Troubleshooting

Customer Service Information

The FAQs below will help you solve common issues with your player. If you do not find the answers you need here, you can contact our Customer Service Department via any of the following methods:

Web: www.rioaudio.com/support

Technical Support Telephone (United States): (254) 299-2759
Technical Support Telephone (United Kingdom): 0207-744-0802
Technical Support Telephone (Canada): (905) 305-6565

Sales Inquires (United States): (866) 286-3662
Sales Inquires (United Kingdom): 0207-744-0802
Sales Inquires (Canada): (905) 305-6565

With every Rio product you receive the following support services:

• Unlimited access to the Rio web-based technical information resources, available 24 hours a day every day at http://www.rioaudio.com/support. Here you will find FAQ files, product updates, and other useful information.

• Unlimited e-mail support for the duration of your Rio product hardware warranty period.

• Access to the latest software updates and enhancements for Rio products via our website.

Rio se510

35

Frequently Asked Questions

Question	Answer
What type of files can I play with the Rio se510?	• The Rio se510 can play MP3, WMA, and Audible #2 and #3 format files.
Can I add MP3 and WMA files to the player at the same time?	• Yes. You can play MP3 and WMA audio content. They can be mixed together.
What are the differences between MP3 and WMA files?	• Because WMA's use a lower bitrate than equivalent MP3's they are generally half as large as MP3 files and you can store more music in less space on CDs, hard drives, or the Rio se510.
How much music can I store on the Rio se510?	• The amount of music that can be stored on the Rio se510 depends on the bitrate of the files stored. The About menu lists the total amount of space, the amount of free space, and the number of tracks on the Rio se510. **Bitrate** — **Approximate amount of space required per minute of audio content** 64 kbps — 0.5 MB 96 kbps — 0.75 MB 128 kbps — 1 MB 164 kbps — 1.25 MB 192 kbps — 1.75 MB
What kind of batteries can I use with the Rio se510?	• The Rio se510 can use alkaline or NiMH batteries.

Rio se510

How do I delete tracks from my Rio player?	• Use Rio Music Manager or My Computer to delete tracks from your Rio player. Using **Rio Music Manager**: **1** Connect the Rio player to the computer using the USB cable. **2** Launch Rio Music Manager. **3** Select the Rio player's icon from the Device List. **4** Select tracks to delete. **5** Press the **Delete** button on your keyboard. Using **My Computer**: **1** Connect the Rio player to the computer using the USB cable. **2** Right-click **My Computer** on the Windows Desktop or taskbar. **3** Select the Rio player. **4** Select tracks to delete. **5** Press the **Delete** button on your keyboard.
Will the Rio se510 play Variable Bitrate (VBR) files?	• Yes. Because there are many standards for VBR files, it cannot be guaranteed that every encoding software package will properly function with the Rio se510. VBR files that do not comply to standards may lack track time, fast forward, and/or rewind capabilities.
What should I do if my Rio se510 is not detected by Rio Music Manager?	• Your Rio se510 was designed to work with the version of Rio Music Manager that was included on the Installation CD. Previous versions of Rio Music Manager may not be able to detect your Rio se510.

Rio se510

37

Rio se510

Why won't the Rio se510 play secure, dated, or other DRM (digital rights management) encoded files?	• DRM files may not work properly if the Rio se510's internal clock is no longer accurate. This can happen if the rechargeable batteries lose all charge for any period of time. Make sure the batteries are fully charged, then follow these steps: **1** Connect the Rio se510 to the computer using the USB cable. **2** Transfer any track to the player using Rio Music Manager. **3** Connect to the secure service where the DRM encoded files came from. The Rio se510's clock should now be in sync with your computer's clock. DRM files should now play correctly.
What should I do if my Rio se510 is not detected as a removable drive?	• It is possible that a network drive is preventing the Rio se510 from being mapped properly. This is a known Microsoft problem and has been documented in their knowledge base as KB297694. To resolve this issue and detect the Rio se510 as a removable drive: **1** Click the **Start Bar**. **2** Right-click **My Computer** on the Windows Desktop or taskbar. **3** Click **Manage**. **4** Locate **Computer Management (Local)** and click **Disk Management**. **5** Right-click the new drive. **6** Click **Change Drive Letter and Path(s)**. **7** Click **Change**. **8** Use the drop-down box to select a drive letter for the new drive that is not assigned to a mapped network drive. **9** Click **OK**. **10** Click **OK**.

38

What should I do if my Rio se510 is not detected by my computer?	• Verify that the USB cable is securely inserted into the USB port on both the Rio se510 and your computer. • Connect the USB cable to a USB port on the back of your computer rather than to a USB port on the front of your computer. • If using a USB hub, connect to a powered USB hub. Unpowered USB hubs may not work. • Connect the USB cable directly to your PC, bypassing any USB hubs. • Remove USB extension cables from the connection path. • Disconnect other USB devices.
What should I do if the display permanently locks up, does not display, or displays **UPGRADER**?	• If you cannot read the display, the player firmware may be corrupted. Corrupted firmware may be caused by a failed firmware update. If the player's firmware becomes corrupted for any reason, follow these steps to start the player in Recovery Mode and proceed with the firmware update. **1** Reset the player by removing the battery for approximately two minutes. **2** Press **POWER**. The player should power on as normal. If the player continues to lock up or does not display properly: **1** Reset the player by removing the battery for approximately two minutes. **2** Press and hold **MENU + POWER** until **UPGRADER** is displayed on the screen. **3** Connect the Rio se510 player to the computer using the USB cable. Proceed with the Firmware upgrade.

Rio se510

39

Rio se510

Why would I ever want to reformat my Rio se510?	• If for any reason you suspect that your Rio player's file system has been corrupted, reformatting the player will restore the file system to its original state.

Use Windows Explorer to format Mass Storage Class compatible Rio players.

1 Double-click **My Computer** on the Windows Desktop or in the Start Menu.
2 Locate the **Removable Disk (***X:***)** or **Player (***X:***)** icon that is associated with the player. (**X:** equals the drive letter assigned to the Rio player.)
3 Right-click the **Removable Disk (***X:***)** or **Player (***X:***)** icon.
4 Click **Format...**.

Reformatting your Rio player will result in the deletion of all tracks and settings on the Rio se510. Reformatting your Rio player will immediately cancel any transfers currently in progress.

5 If you are sure you want to reformat your player, click **Start**.

Can I update the firmware on the Rio se510?	• Yes. If available, firmware for your Rio can be downloaded online.
	Note: Quit all applications before running the firmware update. While running the firmware update, do not close the program, turn off the player, or unplug the USB cable.
	Downloading the update
	1 Click on the following link: Firmware Upgrade.
	2 Click on the link to the Rio se510.
	3 Locate **UPDATES** and click **Firmware**. Select and download the latest software. Download the software that is specific to the operating system you use on your PC:
	*.exe (Windows) *.zip (Windows) *.txt (All operating systems—a text file including update information and instructions.)
	Installing the update (PC)
	1 Connect the player to your computer with the USB cable.
	2 Wait for **Idle** to be displayed on the player screen.
	3 Double-click the file that you downloaded from the Rio website. The update should take approximately 30 seconds to load.

Rio se510

:: Glossary of Digital Audio Terms

Bass

Bass is the particular low-range area of the sound spectrum where low musical notes and sounds are located. Increasing the bass value will make the low vocals and drums more prominent in your music. You can select the amount of bass in your music by selecting various Equalizer options.

Bitrate

Bitrate denotes the number of bits per second used by a digital music file. The size and quality of a compressed digital audio file is determined by the bitrate used when encoding the file. Generally, the higher the bitrate used, the higher the sound quality, and the larger the file size. For example, a bitrate of 96kbps (96,000 bits per second) is generally thought of as "CD quality" for WMA audio files, and takes up about 0.75 megabytes (MB) per minute of music. At a 64kbps bitrate, the sound quality of WMA is similar to that of an FM radio signal, but approximately two minutes of music will fit in 1MB of space.

Codec

Depending on the context and kind of technology involved, codec can be defined as a compressed digital audio file format (like MP3, WMA, etc.), a "coding/decoding" chip used to translate between digital and analog transmissions (used in modems), or a compression/decompression algorithm. Codecs compress audio data into a file, often for efficient transmission over a network, and then decode it for playback. While all the codecs perform similar compression of digital audio, there are differences in the technology.
The Rio se510 supports the following digital audio codecs:

- MP3
- WMA
- Audible

DRM

Digital rights management (DRM) is a type of encryption that is intended to protect copyrighted tracks and is added to many commercially purchased music files during the encoding process. DRM encryption frequently restricts the number of times a file can be downloaded, transferred to portable devices, or burned to CD. Copy protected music using DRM should be transferred to the Rio se510 using Rio Music Manager.

Rio se510

Rio se510

Firmware

Firmware is the read-only software that is installed on the player. Like software it can be updated, but unlike software it can never be deleted from the player.

Gain

Gain is a measurement of the amplitude of frequency ranges. Gain adjustments boost or reduce frequencies to provide a more desirable audio output.

ID3 Tags

The ID3 tag is the part of the encoded MP3 or WMA file that contains information about the digital music file such as song title, artist, album title, encoding bitrate, track time duration, and so on. ID3 tag information is displayed on the Album/Artist/Track title line on the player's LCD.

Mass Storage Class

Mass Storage Class (MSC) is a transfer protocol that uses USB drivers that are common to many operating systems and devices. No additional software needs to be installed for the MSC transfer protocol to work because MSC uses drivers are already on a computer's operating system. Because MSC compatible Rio players are treated as removable drives, any type of file can be transferred to MSC compatible Rio players using Windows Explorer. Although any type of file can be transferred, to assure full functionality, playlists and copy protected music using Digital Rights Management (DRM) should be transferred to Rio players using Rio Music Manager.

MP3

MP3 is short for Moving Pictures Experts Group Audio Layer 3. MP3 is the most well known compressed digital audio file format. This format allows for near "CD quality" sound, but at a fraction of the size of normal audio files. MP3 conversion of an audio track from CD-ROM can reduce the file size by approximately a 12:1 ratio with virtually no perceptible loss in quality. MP3 compression removes the redundant and irrelevant parts of a sound signal that the human ear doesn't hear. This digital sound encoding and compression process was developed by the Fraunhofer Institute for Integrated Circuits and Thomson Multimedia.

Playlist

A playlist is a custom grouping of tracks that has been saved for later use. Rather than playing every track on the player playlists can be used to play specific tracks in specific orders. Rio se510 supports .asx, .m3u, and .pls formatted playlists. Tracks that are referenced by a playlist must be present on the Rio se510. Playlists that are transferred to a Rio player by an application other than Rio Music Manager may not function properly on Rio players.

Rip and Encode

Rip and encode refers to the process of extracting audio from a music CD (ripping) and encoding it into a compressed digital audio format like MP3 or WMA.

Synchronize

Rio Music Manager can automatically (or manually) delete old content, transfer new audio content, and keep the content on your Rio se510 fresh and dynamic. Rio Music Manager must be open for synchronization to occur.

Treble

Treble notes occupy the higher portion of the sound spectrum. Increasing the treble value will raise the levels of the high sounds in your music files. You can select the amount of treble in your music by selecting various Equalizer options.

VBR

Variable Bitrate (VBR) encoding converts tracks at a variable rate, using higher bitrate encoding for complex portions and lower bitrate encoding for pauses in songs.

WMA

Windows Media Audio (WMA) is a compressed audio format created by Microsoft as an alternative to MP3. The WMA codec offers greater file compression than the MP3 codec, enabling storage of more digital audio tracks in the same amount of space when compared to MP3s at the same level of quality.

Rio se510

:: ECC, FCC, and Industry Canada Compliance

Statement of Compliance

This product complies with Council Directive 89/336/EEC and Council Directive 72/23/EEC.

Federal Communications Commission (FCC)

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 undesired operation.

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.

Industry Canada

This Class B digital apparatus complies with Canadian ICES-003.
Cet appareil numérique de la classe B est conforme à la norme NMB-003 du Canada.

Rio se510

45

:: Safety

IMPORTANT SAFETY INSTRUCTIONS

Read these instructions. Keep these instructions. Heed all warnings. Follow all instructions.

Do not use this apparatus near water.

Clean only with a dry cloth.

Do not block any of the ventilation openings. Install in accordance with the manufacturer's instructions.

Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.

Do not defeat the safety purpose of the polarized-type plug: A polarized plug has two blades with one wider than the other. The wide blade is provided for your safety. When the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.

Protect the power cord from being walked on or pinched, particularly at the plug, convenience receptacle, and the point where they exit from the apparatus.

Only use attachments/accessories specified by the manufacturer.

Use only with a cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over.

Unplug this apparatus during lightening storms or when unused for long periods of time.

Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as the when power-supply plug or cord is damaged, liquid has been spilled or objects have fallen onto the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.

To reduce the risk of fire or electric shock, do not expose this apparatus to rain or moisture. Apparatus should not be exposed to dripping or splashing and no objects filled with liquids, such as vases, should be placed on the apparatus.

CAUTION

RISK OF EXPLOSION, DAMAGE OR BATTERY LEAKAGE IS POSSIBLE IF BATTERY IS REPLACED INCORRECTLY OR BY AN INCORRECT TYPE. NEVER ATTEMPT TO CHARGE A NON-RECHARGEABLE ALKALINE BATTERY. DISPOSE OF USED BATTERIES ACCORDING TO INSTRUCTIONS OR LOCAL LAWS.

Use of headphones while operating a vehicle is not recommended and is unlawful in some states and areas. Be careful and attentive while driving. Stop operation of the player if you find it disruptive or distracting while operating any type of equipment. Listening to music at full power over extended periods of time can be damaging to the hearing of the user.

Rio se510

Index

Rio se510

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