

Riō[®] Carbon



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Package Contents

- Rio Carbon
- Installation CD
- Carrying Case
- USB-AC Adapter
- Earphones
- Quick Start Poster
- Mini USB Cable



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Riō



AudibleReady®

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Chapter 1

Getting Started

:: Welcome

Thank you for purchasing the Rio Carbon. Small and powerful, the Rio Carbon can store thousands of songs on its hard drive. The Rio Carbon includes a USB-AC adapter, earphones, an illuminated display, a long lasting built-in battery, and high speed USB 2.0 connectivity.

Learning More

- Refer to the Quick Start poster for the basics on how to set up and start using the Rio Carbon.
- Visit the Rio website at www.rioaudio.com.

:: Tour of the Rio Carbon

POWER

Press to turn the Rio Carbon on.

Press and hold to turn the Rio Carbon off.

MICROPHONE

Records sound when the Voice Recorder is in use.

CENTER

In Menu mode, press to select options.

In Player mode press to cycle through [Time Code View](#), [Track Format View](#), and [Date View](#).

STOP

Press to stop playback.



WHEEL

In Player mode, rotate to adjust volume level.

In Menu mode, press or rotate to control menu navigation.

MENU

In Player mode, press to enter Menu mode.

In Menu mode, press to return to Player mode.

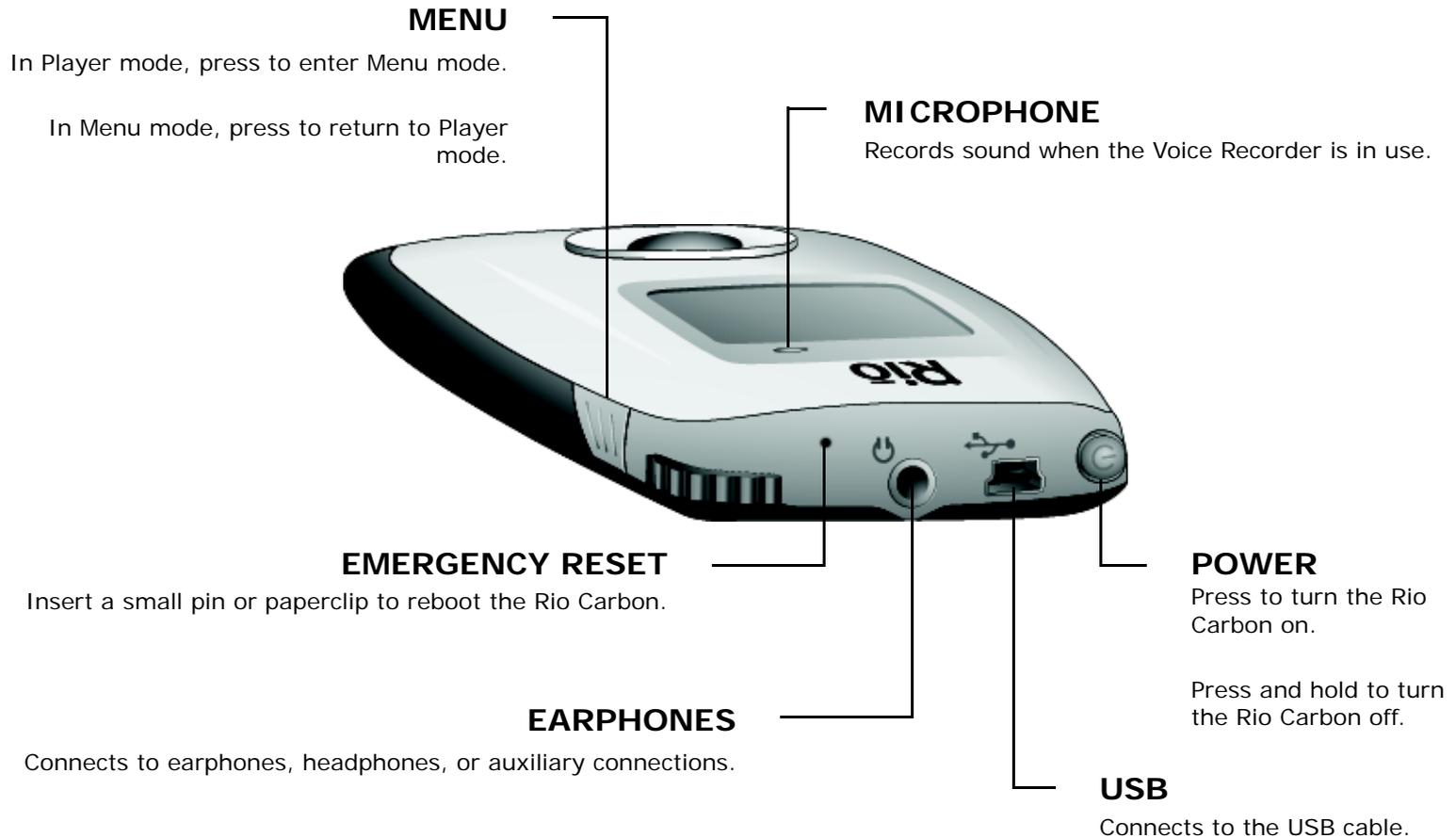
PLAY/PAUSE

Press to play or pause playback.

FORWARD and REVERSE

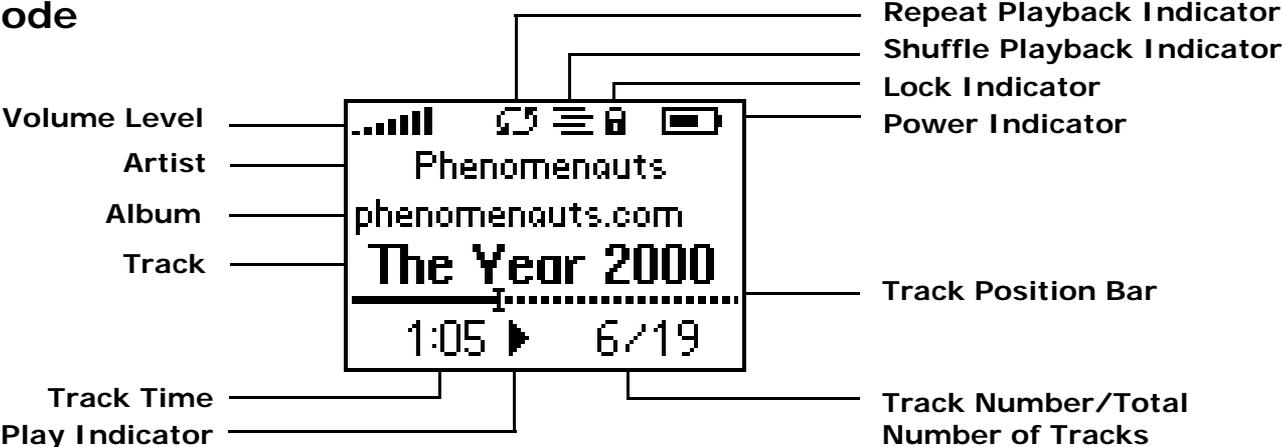
Press to skip to the next or previous track.

Select and hold to scan forward or reverse.

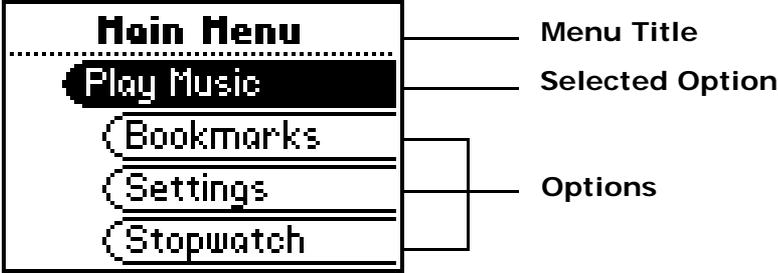


:: Display Overview

Player Mode



Menu Mode



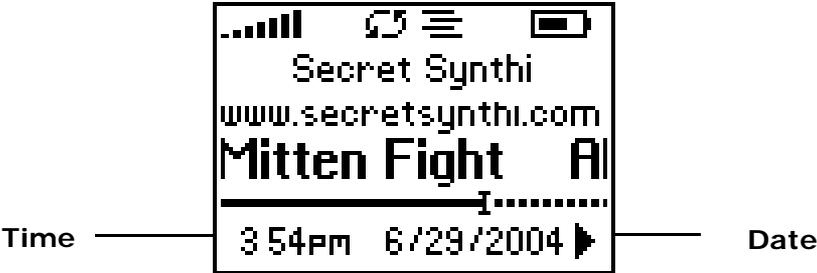
Time Code View



Play Screens

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

Date View



Track Format View



Chapter 2

Connections

:: Basic Connections

This chapter describes how to connect the Rio Carbon to Earphones, USB cables, and alternate devices. Basic connections include:

Earphones

Connect the supplied earphones to the **EARPHONES** port on the top of the Rio Carbon.



USB-AC

The Rio Carbon requires a USB connection to transfer files and/or recharge its battery. If using a USB hub, connect to a powered USB hub. Unpowered USB hubs may not work.

Use the USB cable to connect the Rio Carbon to the USB port on your computer, transfer music and files, and update the Rio Carbon's firmware. The Rio Carbon cannot play music when it is connected to the USB port on your computer.



Use the USB cable to connect the Rio Carbon to the USB port on the USB-AC adapter to quickly recharge the battery on the Rio Carbon. When connected to the USB port on the USB-AC adapter, the Rio Carbon can play music and recharge its battery at the same time.



Additional Accessories

Get the most out of your Rio with additional accessories available online at the Rio [website](#). Some of the most popular accessories include the following:

- **Rio Carbon Carrying Case and Belt Clip**

Replace carrying cases that have been worn down by 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 lets you play your favorite music in any vehicle equipped with a standard cassette deck.



Chapter 3

Software Setup

:: Software Installation

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

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.



- If the 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 Start Menu.
My Computer

- 5 Double-click the **CD-ROM** icon,  , Compact Disc .
(D:)

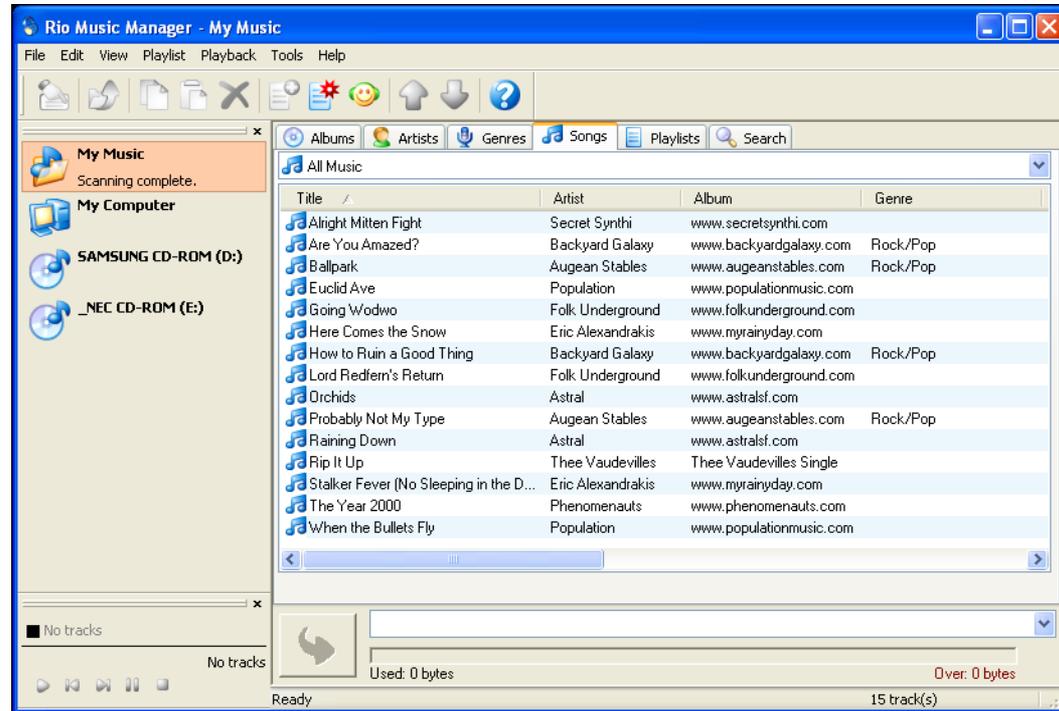
- 6 Double-click the **Install** icon,  .
Install

- 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 the Rio Carbon.
- Edit [ID3 Tags](#) and [WMA](#) tags on digital audio tracks.
- Organize and manage digital audio tracks on your computer and the Rio Carbon.
- Search for tracks on your computer and the Rio Carbon.
- Create custom [Playlists](#).
- Transfer tracks from your computer to the Rio Carbon.



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

Chapter 4

PlaysForSure™

:: PlaysForSure™ Logo

The PlaysForSure logo assures that digital audio devices and online music stores have been tested and verified by Microsoft to work properly together. When you see the PlaysForSure logo at your favorite online music store, you'll know that audio tracks you purchase from the store will play for sure on the Rio Carbon.

The Rio Carbon is a PlaysForSure device and is compatible with PlaysForSure Audio Downloads and PlaysForSure Audio Subscriptions.



[Audio Download](#)

[Audio Subscription](#)



- *The iTunes Music Service does not use the PlaysForSure logo. Tracks downloaded from the iTunes Music Service cannot be played on your Rio player.*

Audio Download

Most online music stores sell digital music that can be downloaded onto the Rio Carbon. When you purchase an audio download you pay once to download a specific track. Tracks purchased in this way can be played for an unlimited amount of time, subject to the restrictions specified by the online music store.

When you see the PlaysForSure Audio Download logo at an online music store you will know that the online music store has been verified to provide audio downloads that will play for sure on the Rio Carbon.

Audio Subscription

A growing number of online music stores sell subscription services that let you download an unlimited number of tracks for a monthly fee. You can download as many tracks as you want, but if you stop paying your monthly subscription fee and the subscription expires, the tracks cannot be played.

Customers using PlaysForSure Audio Subscription services must connect their Rio Carbon to their computer via USB and visit their online music subscription store at least once each billing period so the Rio Carbon knows that the Audio Subscription has not expired.

When you see the PlaysForSure Audio Subscription logo at an online music store you will know that the online music store has been verified to provide audio subscriptions that will play for sure on the Rio Carbon.

Windows Media Player 10 and Windows XP Service Pack 1 (or greater) must be installed on your computer to use PlaysForSure Audio Subscription tracks.



- *PlaysForSure Audio Subscription tracks cannot be transferred to the Rio Carbon when the Rio Carbon is in **MSC mode**.*

:: Learning the Basics

Copying tracks from your CDs and transferring digital music to the Rio Carbon is easy. Enjoying digital music on the Rio Carbon is even easier.

- [Copy Tracks](#)
- [Transfer Tracks](#)
- [Control the Player](#)
- [Play Music](#)
- [Delete Tracks](#)

:: Copy Tracks

Copy Tracks using 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 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. | <ul style="list-style-type: none"> • Click the track. |
| Multiple tracks. | <ul style="list-style-type: none"> • Press SHIFT+Click or CTRL+Click. |
| All tracks. | <ul style="list-style-type: none"> • Press CTRL+A. |
| No tracks. | <ul style="list-style-type: none"> • Press CTRL+N. |
| Every track except for the currently selected tracks. | <ul style="list-style-type: none"> • Select Edit, Invert Selection. |

- 5 Click  to begin copying tracks to your computer.



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

:: Transfer Tracks

There are many ways to transfer tracks onto the Rio Carbon. Choosing a method to transfer tracks is largely a matter of personal preference.

[Transfer Tracks using Rio Music Manager](#)

[Transfer Tracks using Windows Explorer](#)

[Transfer Tracks using Online Music Stores](#)



- *The first time you use Rio Music Manager, the Welcome Wizard will help Rio Music Manager find music on your computer. You can change the locations that Rio Music Manager searches for music manually by using the **Tools/Options.../Music Location/** menu in Rio Music Manager.*

Transfer Tracks using Rio Music Manager

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

- 1 Launch Rio Music Manager.
- 2 Click **My Music** in the left frame to access tracks. Rio Music Manager will scan your computer's music locations for digital audio files. Files are automatically categorized by album title and displayed in the Track List. Use the Music Location menu in Rio Music Manager (Tools/Options/Music Location) to add music locations for Rio Music Manager to scan.
- 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 Carbon, 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. | <ul style="list-style-type: none"> • Click the track, album, or artist. |
| Multiple tracks, albums, and/or artists. | <ul style="list-style-type: none"> • Press SHIFT+Click or CTRL+Click. |
| All tracks, albums, and artists. | <ul style="list-style-type: none"> • Press CTRL+A. |
| No tracks, albums, or artists. | <ul style="list-style-type: none"> • Press CTRL+N. |
| Every track except for the currently selected tracks. | <ul style="list-style-type: none"> • Select Edit, Invert Selection. |

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



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

Transfer Tracks using Windows Explorer

[Folders](#) and files can be transferred to the Rio Carbon using copy-and-paste and/or drag-and-drop techniques. These methods are excellent ways to transfer files to and from computers when using the Rio Carbon as a portable storage device.

Any type of file can be transferred using these methods but to assure full functionality, [Playlists](#) and copy protected music using [Digital Rights Management \(DRM\)](#) should be transferred to the Rio Carbon using Rio Music Manager or the applicable online music store manager.

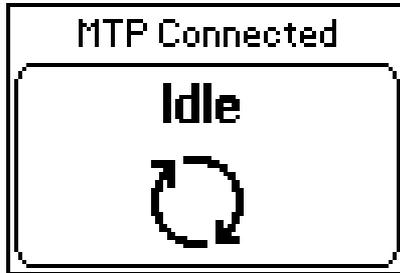
Transferring tracks using Windows Explorer is slightly different depending on what [Transfer Mode](#) the Rio Carbon is set to use.

[MTP mode transfers](#)

[MSC mode transfers](#)

MTP mode transfers

If Windows Media Player 10 and Windows XP Service Pack 1 (or greater) are installed on your computer, the Rio Carbon will default to MTP mode functionality.



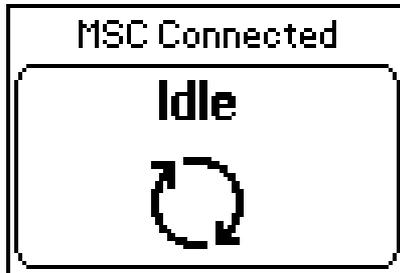
- 1 Connect the Rio Carbon to a computer using the supplied USB cable.
- 2 Double-click **My Computer** on the Windows Desktop or in the Start Menu.
- 3 Locate **MP3** or **WMA** audio files on the computer.
- 4 Highlight files and/or folders to transfer to the Rio Carbon.
- 5 Click **Edit**.
- 6 Click **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 icon that is associated with the Rio Carbon.
- 9 Double-click the Rio Carbon icon.
- 10 Select a folder to add tracks to. In MTP mode, audio files must be placed into the folder called **Media** and all non-audio files must be placed into the folder called **Data**. The **Media** and **Data** folders are created automatically by the Rio Carbon when in MTP mode.
- 11 Click **Edit**.
- 12 Click **Paste**.



- *When the Rio Carbon is in MTP mode (or **Auto mode** on Windows XP systems with SP1 (or greater) and WMP10 installed), hidden files on the Rio Carbon cannot be viewed using Windows Explorer, transfers cannot be made to the root Rio Carbon directory using Windows Explorer, and new folders cannot be created using Windows Explorer. Folders can be transferred to the Rio Carbon using drag-and-drop and copy-and-paste methods.*

MSC mode transfers

If your computer does not have Windows Media Player 10 and Service Pack 1 (or greater) installed, the Rio Carbon will default to MSC mode functionality.



- 1 Connect the Rio Carbon 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 Carbon.
- 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 icon that is associated with the Rio Carbon.
- 9 Double-click the Rio Carbon icon.
- 10 Select a folder to add tracks to.
- 11 Click **Edit**.
- 12 Click **Paste**.

Transfer Tracks using Online Music Stores

Most online music stores provide their own unique and proprietary download managers that you can use to transfer tracks to your computer and the Rio Carbon. Using the online music store's download manager to transfer their tracks to your computer—and then using Rio Music Manager to transfer the tracks from your computer to your Rio player—will provide the best user experience.

Some online music stores require that you use their download manager.

Please contact the applicable online music store for information on how to use their download manager to transfer tracks to the Rio Carbon.

:: Control the Player

The controls on the Rio Carbon work as follows:

- **POWER**
Press to turn the Rio Carbon on. Press and hold to turn the Rio Carbon off.
- **MENU**
In Player mode, press to enter Menu mode. In Menu mode, press to return to Player mode. Press and hold **MENU** and **CENTER** at the same time to enter [Lock 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.
- **WHEEL**
In Player mode, rotate to adjust the volume level. In Menu mode, press or rotate to control menu navigation.



Controls

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

:: Play Music

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



[Play All](#)

[Album](#)

[Artist](#)

[Genre](#)

[Track](#)

[Year](#)

[New Music](#)

[Playlist](#)

[Spoken Word](#)

[Recordings](#)

[Folder](#)

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**.

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 Carbon using the Audible Manager application. The Windows Media Player Audible application does not currently work with the Rio Carbon.*
- *When in Spoken Word mode, the Rio Carbon's LCD displays the following icon:  .*
- *When in Spoken Word mode, press **FORWARD** or **REVERSE** to skip from one section of the track to another.*
- *The current track position in an audio book is automatically saved when switching from Spoken Word mode to another Play Music mode. [Bookmarks](#) are great for saving multiple positions in long-running digital audio books and other spoken word content.*

Recordings

To play recordings created using the Rio Carbon's internal microphone:

- 1 Press **MENU**.
- 2 Select **Play Music**.
- 3 Select **Recordings**.
- 4 Select **Play All** or a specific recording.

Folder

To locate and play tracks using folders that have been created on the Rio Carbon please follow these steps:

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

:: Delete Tracks

Deleting tracks from the Rio Carbon using Rio Music Manager involves selecting tracks, then deleting them from the Rio Carbon.

- 1 Launch Rio Music Manager.
- 2 Click **Rio Carbon** in the left frame to access tracks.
- 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 Carbon, 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 . |

4. Click the Delete icon,  .

Clicking the delete icon will remove the selected files from the Rio Carbon and cannot be undone.



- *Tracks can also be deleted from the Rio Carbon using traditional drag-and-drop and copy-and-paste methods via **My Computer** (Windows Explorer).*

:: Learning to use the Advanced Features

Advanced features of the Rio Carbon include:

- [Bookmarks](#)
- [Settings](#)
- [Voice Record](#)
- [Recordings](#)
- [Stopwatch](#)
- [About](#)

:: 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 Carbon. 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.



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

Bookmark options include:

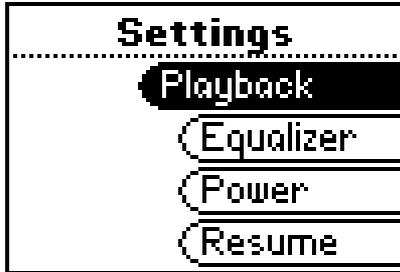
- **Select**
Select a bookmark. Press **CENTER** to restore the selected bookmark settings.
- **Set**
Select a bookmark. Press **CENTER** to save the current settings to a bookmark.
- **Delete**
Select a bookmark. Press **CENTER** to delete the selected bookmark.



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

:: Settings

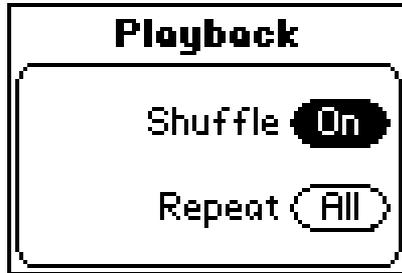
Rio Carbon settings include:



Playback
Equalizer
Power
Resume
Display
Time
Lock Setup
Lock Mode
Tags
Transfer Mode

Playback

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



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

Playback options include:

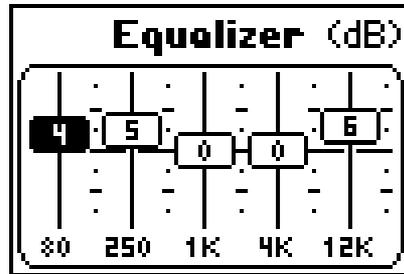
- **Shuffle**
Set selected tracks to play in standard or random order. Settings include **Off** (the default setting) and **On**.
- **Repeat**
Set selected tracks to repeat playback of all tracks or the current track. Settings include **Off** (the default setting), **All**, and **One**.

Equalizer

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

Custom

Custom mode allows the Rio Carbon'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 Carbon.

- 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.

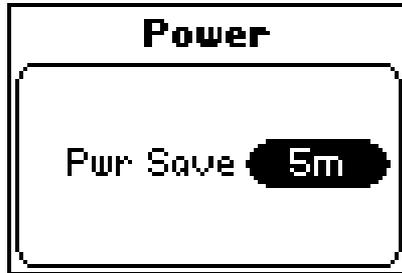
Preset

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.

Power

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



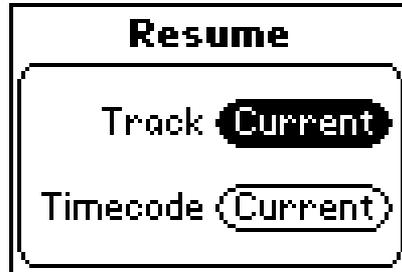
- 1 Press **MENU**.
- 2 Select **Settings**.
- 3 Select **Power**.
- 4 Select a **Pwr Save** setting.
- 5 Press **CENTER** to apply settings and return to Player mode.

Power options include:

- **Pwr Save**
Set the Rio Carbon 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 Carbon will play whenever it is powered on.



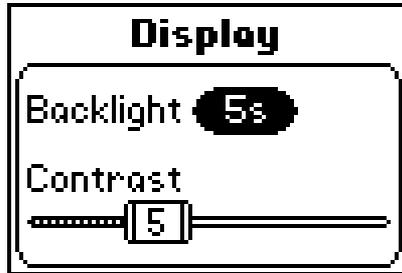
- 1 Press **MENU**.
- 2 Select **Settings**.
- 3 Select **Resume**.
- 4 Select **Resume** options.
- 5 Press **CENTER** to apply settings and return to Player mode.

Resume options include:

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

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 settings include:

- **Backlight**
Set the backlight on the Rio Carbon 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.

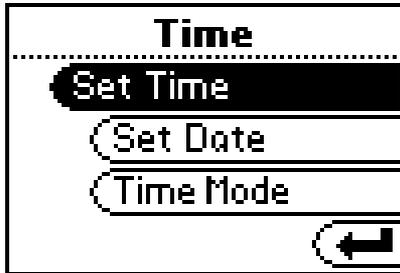


- *To conserve battery life, the **On** setting should rarely be used.*

- **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 Carbon's internal clock. Time is set automatically every time tracks are transferred to the Rio Carbon using Rio Music Manager.



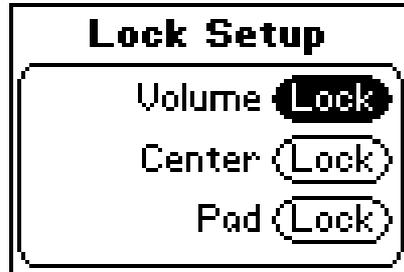
- 1 Press **MENU**.
- 2 Select **Settings**.
- 3 Select **Time**.
- 4 Select **Set Time**, **Set Date**, or **Time Mode** options.
- 5 Press **CENTER** to apply settings and return to Player mode.

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.

Lock Setup

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



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

Lock Mode

Select **Lock Mode** to disable the Rio Carbon's buttons (based on [Lock Setup](#) settings) and prevent accidental operation.



1 Press and hold **MENU** and **CENTER** at the same time, then release.

or

- 1 Press **MENU**.
- 2 Select **Settings**.
- 3 Select **Lock Mode**.

To exit **Lock Mode**, press and hold **MENU** and **CENTER** at the same time, then release.

Tags

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

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



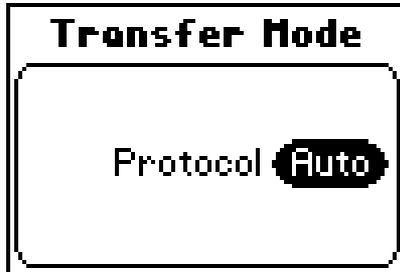
- 1 Press **MENU**.
- 2 Select **Settings**.
- 3 Select **Tags**.
- 4 Select **ASCII** (the default setting), **UTF-8**, or **Shift-JIS**.
- 5 Press **CENTER** to apply settings and return to Player mode.

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.

Transfer Mode

Adjust **Transfer Mode** settings to change the way the Rio Carbon communicates with your computer.



- 1 Press **MENU**.
- 2 Select **Settings**.
- 3 Select **Transfer Mode**.
- 4 Select **Auto** (the default setting), **MTP**, or **MSC**.
- 5 Press **CENTER** to apply settings and return to Player mode.

Transfer Mode protocols include:

- **Auto** (the default setting)

Select to let the Rio Carbon decide what mode is most appropriate for your computer. If Windows Media Player 10 (WMP10) and Windows XP Service Pack 1 (SP1) (or greater) are installed on your computer, the Rio Carbon will default to MTP mode functionality. If your computer does not have WMP10 and SP1 (or greater) installed, the Rio Carbon will default to MSC mode functionality.

- **MTP**

Select to set the Rio Carbon to only use the MTP protocol. MTP is an acronym for Media Transfer Protocol.



- *When in MTP mode, the Rio Carbon cannot communicate properly with your computer unless it has both WMP10 and Windows XP SP1 (or greater) installed.*

- *When in MTP mode, the Rio Carbon cannot display hidden files in folders, cannot allow transfers to the root Rio Carbon directory, or allow the creation of new folders. Folders can be transferred to the Rio Carbon using drag-and-drop and copy-and-paste methods. When in MTP mode (or Auto mode on Windows XP systems with SP1 (or greater) and WMP10 installed), all audio files transferred to the Rio Carbon are automatically placed in a pre-created **Media** folder and all non-audio files are placed in a pre-created **Data** folder.*

- **MSC**

Select to set the Rio Carbon to only use the MSC protocol. MSC is an acronym for Mass Storage Class.



- *When in MSC mode, PlaysForSure™ Audio Subscription tracks cannot be transferred to the Rio Carbon. PlaysForSure™ Audio Subscription tracks already on the Rio Carbon will play normally.*

:: Voice Record

Select to record audio using the Rio Carbon's internal microphone. Recording [ID3 Tags](#) can be edited using Rio Music Manager.



- 1 Press **MENU**.
- 2 Select **Voice Record**.

When in Voice Record mode, the following controls function differently:

- **CENTER**
Press to cycle through Voice Record [Play Screens](#).
- **PLAY/PAUSE**
Press to begin recording. After recording has started, press **PLAY/PAUSE** to pause recording.
- **FORWARD** and **REVERSE**
Press to select a prerecorded recording. If a prerecorded recording is selected, the current recording will be appended to the prerecorded recording.
- **STOP**
Press to stop a recording.

:: Recordings

Select to playback or delete recordings using the Rio Carbon's internal microphone.



- 1 Press **MENU**.
- 2 Select **Recordings**.
- 3 Select **Start/Stop**, **Playback**, or **Delete**.

Recording options include:

- **Start/Stop**
Select to begin recording. After recording has started, return to the **Recordings** menu and select the **Stop** option to stop recording.
- **Playback**
Select a voice recording. Press **CENTER** to play the selected recording.
- **Delete**
Select a voice recording. Press **CENTER** to delete the selected recording.

:: 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.

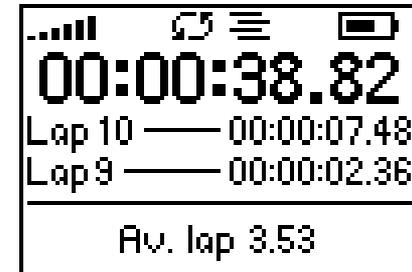
When in **Stopwatch** mode, the controls work in the following ways:

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

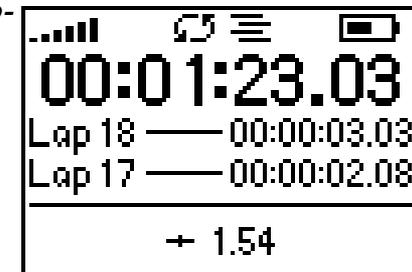


- *Pressing **MENU** and using other player functions will not turn the timer off. The timer will continue to run until **PLAY/PAUSE** is pressed while in **Stopwatch** mode.*

- **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

:: About

The About screen displays information about the Rio Carbon. Information includes the total amount of memory on the Rio Carbon, the amount of free memory, the number of tracks on the Rio Carbon, 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 on the Rio Carbon.

:: 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

Customer Sales/Presales (United States): (866) 286-3662

Customer Sales/Presales (United Kingdom): 0207-744-0802

Customer Sales/Presales (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](#).

Frequently Asked Questions

| Question | Answer | | | | | | | | | | | | |
|---|--|---------|--|---------|--------|---------|---------|----------|------|----------|---------|----------|---------|
| What type of files can I play with the Rio Carbon? | <ul style="list-style-type: none"> The Rio Carbon 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? | <ul style="list-style-type: none"> Yes. You can play MP3 and WMA audio content. They can be mixed together. | | | | | | | | | | | | |
| What are the differences between MP3 and WMA files? | <ul style="list-style-type: none"> 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 Carbon. | | | | | | | | | | | | |
| How much music can I store on the Rio Carbon? | <ul style="list-style-type: none"> The amount of music that can be stored on the Rio Carbon 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 Carbon. <table border="1"> <thead> <tr> <th>Bitrate</th> <th>Approximate amount of space required per minute of audio content</th> </tr> </thead> <tbody> <tr> <td>64 kbps</td> <td>0.5 MB</td> </tr> <tr> <td>96 kbps</td> <td>0.75 MB</td> </tr> <tr> <td>128 kbps</td> <td>1 MB</td> </tr> <tr> <td>164 kbps</td> <td>1.25 MB</td> </tr> <tr> <td>192 kbps</td> <td>1.75 MB</td> </tr> </tbody> </table> | 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 |
| 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 Carbon? | <ul style="list-style-type: none"> The Rio Carbon uses a non-removable rechargeable lithium-ion battery. | | | | | | | | | | | | |
| Can I replace the battery in my Rio Carbon? | <ul style="list-style-type: none"> No. | | | | | | | | | | | | |

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| Can I charge the Rio Carbon's battery using the USB cable? | <ul style="list-style-type: none"> • Yes. Both USB-USB (Rio player to computer) and USB-AC (Rio player to power socket) connections will power and charge the Rio Carbon. |
| Where is the battery indicator on my Rio Carbon? | <ul style="list-style-type: none"> • The battery indicator on the Rio Carbon is located in the top-right corner of the display. The segments in the battery icon show the remaining battery power. The illumination of all segments indicates a fully charged battery. Non-illuminated segments indicate a run down battery. The battery indicator blinks when less than 20% of the charge on the battery remains. |
| I'm not getting the full 20hrs of battery life. Is that a problem? | <ul style="list-style-type: none"> • Probably not. Your battery life depends on many factors including volume, type of music and bit rate, backlight, equalizer settings, and headphones. • MP3s use less power than WMAs. PlaysForSure Audio Subscription tracks use more power than regular WMAs. • Higher bit rates use more power than lower bit rates. • The higher the volume is set, the more power the Rio Carbon uses. • Higher contrast and longer backlight usage use additional power. |
| The drive stops spinning during playback. Is this normal? | <ul style="list-style-type: none"> • Yes. It is normal for the drive to stop spinning during playback. Stopping the drive is part of the player's battery life management system. When the drive is stopped, the Rio Carbon conserves power and plays tracks from a memory buffer. |
| Will the Rio Carbon play Variable Bitrate (VBR) files? | <ul style="list-style-type: none"> • Yes. Because there are many standards for VBR files, it cannot be guaranteed that every encoding software package will properly function with the Rio Carbon. VBR files that do not comply to standards may lack track time, fast forward, and/or rewind capabilities. |
| How do I check license information for a PlaysForSure Download or Subscription track? | <ul style="list-style-type: none"> • Use the software provided by your online music store to check the license information for your tracks. • Using Windows Media Player, right-click the select track, click Properties, then click the License tab. |

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| <p>Why won't the Rio Carbon play PlaysForSure Audio Download, PlaysForSure Audio Subscription, or other DRM (digital rights management) encoded files?</p> | <ul style="list-style-type: none"> • DRM files may not work properly if the Rio Carbon'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: <ol style="list-style-type: none"> 1 Connect the Rio Carbon to the computer using the USB cable. 2 Transfer any track to the player using Rio Music Manager. 3 Log into the secure service where the DRM encoded files came from. <p>The Rio Carbon's clock should now be in sync with your computer's clock.</p> <p>DRM files should now play correctly.</p> |
| <p>Why can't I transfer PlaysForSure subscription service tracks to my Rio Carbon?</p> | <ul style="list-style-type: none"> • When in MSC mode, PlaysForSure subscription service tracks cannot be transferred to the Rio Carbon. Change the Transfer Mode settings to put the Rio Carbon in MTP mode. |
| <p>I see errors in Transfer details for some of the tracks I try to transfer to the Rio Carbon.</p> | <ul style="list-style-type: none"> • This may be a one-time error with the track, or possibly a permanent problem. <ol style="list-style-type: none"> 1 Try transferring the track to the Rio Carbon again. 2 Try re-encoding the track again from your CD using Rio Music Manager. 3 Try downloading that track again from your online music service provider. |
| <p>I see a license error listed in the transfer details for a track I tried to transfer to the Rio Carbon.</p> | <ul style="list-style-type: none"> • This could be a temporary error, the track may be corrupted, Rio Music Manager may have failed to acquire the license for the track, or you might not have rights to transfer the track to the Rio Carbon. <ol style="list-style-type: none"> 1 Log into your online music service, and try transferring the track to the Rio Carbon again. 2 Try using the application from your music service to transfer those tracks. 3 If the track says it cannot be transferred, try downloading another copy from your online music service. |

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| <p>I notice a delay in playback when I use FORWARD or REVERSE to skip from one PlaysForSure Audio Subscription track to another. What is wrong?</p> | <ul style="list-style-type: none"> • Nothing is wrong. Every time the Rio Carbon plays a PlaysForSure Audio Subscription track, it needs to verify that the track's subscription has not expired. A slight delay before playback begins is not uncommon while the Rio Carbon is acquiring the license. Skipping forward or reverse through multiple PlaysForSure Audio Subscription tracks may cause longer playback delays. |
| <p>The Rio Carbon displays a License Failure message whenever it tries to play a PlaysForSure Audio Subscription track. How can I fix this?</p> | <ul style="list-style-type: none"> • Your subscription to play the tracks may have expired. You must connect the Rio Carbon to your computer via USB and log into the applicable online music subscription store at least once each billing period so the Rio Carbon knows that the Audio Subscription has not expired. • If you are sure that your subscription to play the tracks has not expired, it is possible that the master license that the Rio player checks when acquiring licenses has become corrupt. We recommend you troubleshoot the problem in the following way: <ol style="list-style-type: none"> 1 Try transferring a new subscription track to the Rio Carbon. 2 Follow instructions on formatting the Carbon and then transfer the track again. 3 If the problem persists, please contact the applicable online music subscription service. |
| <p>Why can't I use my computer to play tracks or open non-audio files located on my Rio Carbon?</p> | <ul style="list-style-type: none"> • You can use your computer to play tracks and open non-audio files located on the Rio Carbon only when it is in MSC mode. Change the Transfer Mode settings to put the Rio Carbon in MSC mode. • When in MTP mode, files located on the Rio Carbon must be transferred to your computer before they can be opened. |

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| <p>When using Windows Explorer (i.e. My Computer) to navigate the files and folders on my Rio Carbon, many folder options are missing. Why?</p> | <ul style="list-style-type: none"> • The Rio Carbon communicates with your computer differently in MTP mode than it does in MSC mode. When in MTP mode, the Rio Carbon cannot display hidden files in folders, cannot allow transfers to the root Rio Carbon directory, and cannot allow the creation of new folders. (Folders can be transferred to the Rio Carbon using drag-and-drop and copy-and-paste methods.) <p>To use traditional folder options, change the Transfer Mode settings to put the Rio Carbon in MSC mode.</p> |
| <p>I can't find some pictures and work files I copied to my Rio Carbon. Where are they?</p> | <ul style="list-style-type: none"> • If in MTP mode, all non-audio files are placed into a folder called Data. The Media and Data folders are created automatically by the player when in MTP mode. • If in MSC mode, files remain in the folder structure they were originally transferred to. |
| <p>What should I do if my Rio Carbon is not detected by my computer?</p> | <ul style="list-style-type: none"> • Verify that the USB cable is securely inserted into the USB port on both the Rio Carbon 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. • Remove USB extension cables from the connection path. • Disconnect other USB devices. |
| <p>My Rio Carbon is in MTP mode but it is not being detected by Windows Explorer (My Computer) on my Windows XP system. What should I do?</p> | <ul style="list-style-type: none"> • Both Windows XP Service Pack 1 (SP1) (or greater) and Windows Media Player 10 (WMP10) must be installed for your computer to detect a Rio Carbon set in MTP mode. • If you do not want to install SP1 (or greater) and WMP10 on your computer you should disconnect the Rio Carbon and change the Transfer Mode setting to MSC mode. |

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| <p>What should I do if my Rio Carbon is not detected as a removable drive?</p> | <ul style="list-style-type: none"> • If in MTP mode, the Rio Carbon is detected as a portable device rather than a portable drive. The Rio Carbon cannot be detected as a portable drive unless it is in MSC mode. • If in MSC mode, it is possible that a network drive is preventing the Rio Carbon 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 Carbon as a removable drive: <ol style="list-style-type: none"> 1 Click Start on the Taskbar. 2 Right-click My Computer on the Windows Desktop or in the Start Menu. 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. |
| <p>What should I do if my Rio Carbon is not detected by Rio Music Manager?</p> | <ul style="list-style-type: none"> • The Rio Carbon 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 the Rio Carbon. • You can transfer tracks using Windows Media Player or Windows Explorer. • If the problem persists, please contact Customer Care for assistance. |

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| <p>What should I do if my Rio Carbon will not power on (or off)?</p> | <ul style="list-style-type: none">• Follow these steps to power the Rio Carbon on if it will not power on normally:<ol style="list-style-type: none">1 Confirm that the Rio Carbon's battery have enough charge to power the player on. Connect the Rio Carbon to your computer or to USB-AC and charge the player for five minutes.2 Unplug the Rio Carbon from the USB connection.3 Reset the Rio Carbon by inserting a small pin or paperclip into the EMERGENCY RESET hole.4 Press POWER. <p>If the Rio Carbon still does not power on, try the following:</p> <ol style="list-style-type: none">5 Reset the Rio Carbon by inserting a small pin or paperclip into the EMERGENCY RESET hole while it's plugged into USB-AC.6 Press POWER. |
| <p>What should I do if my Rio Carbon is stuck in to Recorder mode every time I turn it on?</p> | <ul style="list-style-type: none">• You should download and install the latest firmware onto the Rio Carbon. If the Rio Carbon is using the latest firmware, please reinstall it onto the Rio Carbon. |

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| <p>What should I do if the display permanently locks up, does not display, or displays UPGRADER?</p> | <ul style="list-style-type: none"> • If you cannot read the display, the Rio Carbon’s 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. <ol style="list-style-type: none"> 1 Reset the player by inserting a small pin or paperclip into the EMERGENCY RESET hole. 2 Press POWER. The player should power on as normal. <p>If the player continues to lock up or does not display properly:</p> <ol style="list-style-type: none"> 1 Reset the player by inserting a small pin or paperclip into the EMERGENCY RESET hole. 2 Press and hold MENU + POWER until UPGRADER is displayed on the screen. 3 Connect the Rio Carbon player to the computer using the USB cable. Proceed with the Firmware upgrade. |
| <p>Why does my Rio Carbon experience errors after I unplug the USB cable?</p> | <ul style="list-style-type: none"> • Removing the Rio Carbon from a USB connection before Idle is displayed on the screen may result in a corrupting the player’s file system. e.g. All tracks, although different, are assigned the same name; the player will not power off; etc. |
| <p>Why would I ever want to reformat my Rio Carbon?</p> | <ul style="list-style-type: none"> • 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. <ol style="list-style-type: none"> 1 Double-click My Computer on the Windows Desktop or in the Start Menu. 2 Locate the icon that is associated with the Rio Carbon. 3 Right-click the Rio Carbon icon. 4 Click Format... <p>Reformatting your Rio player will result in the deletion of all tracks, settings, and hidden PlaysForSure Subscription Audio license files on the Rio Carbon. Reformatting your Rio player will immediately cancel any transfers currently in progress.</p> <ol style="list-style-type: none"> 5 If you are sure you want to reformat your player, click Start. |

Can I update the firmware on the Rio Carbon?

- Yes. If available, firmware for the Rio Carbon 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 Rio Carbon, or unplug the USB cable.

Downloading the update

- 1** Click on the following link: [Firmware Upgrade](#).
- 2** Click on the link to the Rio Carbon.
- 3** Locate **UPDATES** and click **Firmware**.
- 4** Select and download the latest software.

Installing the update

- 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.

:: 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, a 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 Carbon supports the following digital audio codecs:

- Audible
- MP3
- WMA

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 Carbon using Rio Music Manager.

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 of 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 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. When in MSC mode, PlaysForSure™ Audio Subscription tracks cannot be transferred to Rio players. PlaysForSure™ Audio Subscription tracks already on Rio players will play normally.

Media Transfer Protocol

Media Transfer Protocol (MTP) is a more recent transfer protocol than MSC. PlaysForSure™ Audio Subscription tracks can only be transferred to players in MTP mode. Windows XP Service Pack 1 (SP1) (or greater) and Windows Media Player 10 (WMP10) must be installed for MTP to work. When in MTP mode, Rio players are treated as portable devices rather than removable drives. Because of this, when a Rio player is in MTP mode (or Auto mode on Windows XP systems with SP1 (or greater) and WMP10 installed), folders on the Rio player cannot display hidden files, cannot allow transfers to the root Rio player directory, and cannot allow the creation of new folders. (Folders can be transferred to Rio players using drag-and-drop and copy-and-paste methods.) When in MTP mode, all audio files transferred to Rio players are automatically placed in a pre-created Media folder and all non-audio files are placed in a pre-created Data folder. 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 Carbon supports .asx, .m3u, and .pls formatted playlists. Tracks that are referenced by a playlist must be present on the Rio Carbon. Playlists that are transferred to a Rio player by an application other than Rio Music Manager may not function properly on Rio players.

PlaysForSure™

The PlaysForSure logo assures that digital audio devices and online music stores have been tested and verified by Microsoft to work properly together. When you see the PlaysForSure logo at your favorite online music store you'll know that services you purchase from the store will play for sure on your Rio player.

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 the Rio Carbon 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.

:: 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

This device complies with Part 15 of the Federal Communications Commission (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.

:: 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 lightning 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.

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