<u>Contents</u>



RioVolt SP350 User's Guide

Welcome

Thanks for your purchase of the RioVolt SP350, a portable CD player that plays WMA, MP3, and regular <u>Red</u> <u>Book</u> audio CDs. The SP350 includes headphones, a multifunction remote control, and rechargeable batteries to supply over 15 hours of continuous music playtime. The SP350 features a large backlit graphic LCD display, an FM tuner, and provides up to 480 seconds of <u>Electronic Shock Protection (ESP)</u> for Red Book audio CDs and 1920 seconds (32 minutes) for MP3/WMA CDs to eliminate skipping during playback.

Use the music management software included on the software CDs to organize digital audio tracks on your computer, record (<u>encode</u>) your audio CDs, search for tracks on your computer or on the Internet, and create custom CDs—if you have CD burning hardware and your computer supports it.

Contents

Navigating the User's Guide / Using Acrobat Safety Information Tour of the RioVolt - Buttons and Ports Tour (continued) - Display (LCD) Remote Control Getting Started Playing Music Listening to the Radio Advanced Functions Using the Music Management Software Glossary of Digital Audio Terms Frequently Asked Questions (FAQ) and Troubleshooting Warranty Information



Riōvolt

Regulatory Information

Customer care

<u>Index</u>

To learn more:

- Refer to the Quick Start poster for the basics on how to set up and start using your RioVolt.
- Click the music management software Help menus for step-by-step instructions on how to use the included software.
- Visit the SONICblue Web site at <u>www.sonicblue.com</u>.

Navigating the User's Guide

This User's Guide is in Adobe Acrobat (.PDF) file format.

Important: We recommend that you use Adobe Acrobat Reader version 4.0 or higher to view and print the RioVolt User's Guide. Acrobat reader 4.0 is available on the software CDs.

Click blue, underlined text links to jump to another location in the document or to a location on the Internet.

Click the <u>Contents</u> link at the top of any page to go to the list of User's Guide contents.

Click the <u>Index</u> link at the top of any page to go to the alphabetical Index of topics. Click page numbers in the Index to jump to a topic.

Using Acrobat

Click the print button \triangleq in the Acrobat toolbar to print the User's Guide.

Click the show/hide navigation pane button 📑 in the Acrobat toolbar to show a list of bookmarks. Bookmarks are links to the contents of the User's Guide. Click any bookmark in the list to jump to the page in the User's Guide that contains the topic.





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SP350 P/N 75510400-001

Important Safety Information

WARNING

TO REDUCE THE CHANCE OF SHOCK OR INJURY, DO NOT USE OR OPERATE THIS DEVICE IN OR NEAR WATER OR WET LOCATIONS.

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.

Class 1 Laser

Invisible laser radiation when open and interlocks defeated, avoid exposure to beam.





Player

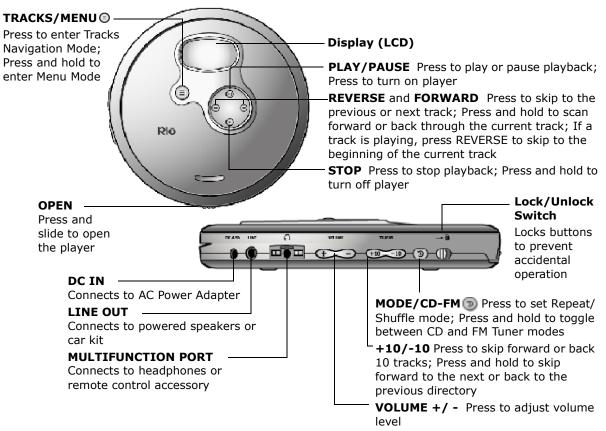
CD

RioVolt MP3/WMA >>

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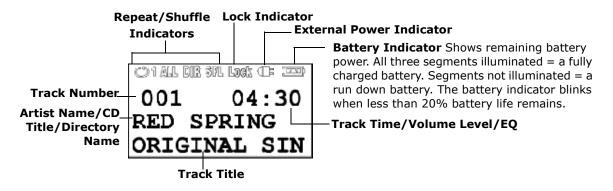


<u>Contents</u>



LCD

Playback Mode



Tracks Navigation Mode



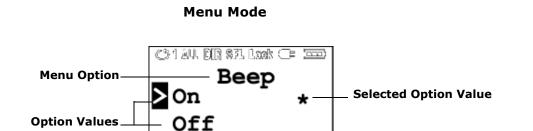
Note: The highlighted cursor indicates the Directory is the currently selected option. Pressing the FORWARD» button would allow you to navigate that Directory.

Riōvolt

Contents Ir



LCD (cont.)



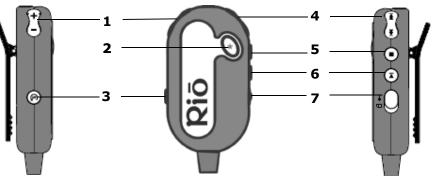
FM Tuner Mode







Accessories Remote Control



To use the remote control, plug the remote control cable into the MULTIFUNCTION PORT on the side of the RioVolt player, then plug the headphones into the remote.

- 1 **VOLUME +/-** Press to increase/decrease volume.
- 2 EQ/Function button (User Configurable) Press to toggle through the EQ presets or to use the feature you set in the RioVolt player's Remote Btn. Menu option. To configure this button see <u>"Remote Button" on page 14</u>.
- 3 **MODE/CD-FM** Press to set Repeat/Shuffle modes; Press and hold to toggle between CD and FM Tuner modes.

4 **FORWARD** Press to skip to the next track; Press and hold to scan forward through the current track.

REVERSE Press to skip to the previous track; Press and hold to scan back through the current track.

- 5 **STOP** Press to stop playback; Press and hold to turn off the player.
- 6 **PLAY/PAUSE** Press to play or pause playback.
- 7 **LOCK/UNLOCK** Slide into the LOCK position to stop the buttons on the remote from functioning.

Note: To purchase optional accessories for the RioVolt SP350, <u>visit our e-store</u>.

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Getting Started

1 Unpack

Make sure your player includes the following accessories:

- Headphones
- Two 1400mAH NiMH rechargeable batteries
- AC Adapter
- Remote Control
- PC/Mac Software CDs
- Carry Case
- Car Kit (power and cassette adapters)
- Quick Start Poster

2 Insert Batteries

- 1 Press the OPEN button to release the latch and open the RioVolt player.
- 2 Remove the cardboard insert.
- 3 Remove the battery compartment cover on the inside of the RioVolt.
- 4 Insert the two supplied batteries. Ensure that the batteries are inserted properly by matching the + and symbols on the battery with the symbols on the RioVolt.
- 5 Replace the battery compartment cover and close the RioVolt player.

6 Connect the supplied AC adapter to the DC In Jack on the side of the player, and into an electrical outlet. Let the batteries charge for approximately five hours before using the player.

NOTE: To charge the batteries, the player must be turned off. The RioVolt will play CDs when plugged into the AC Adapter, but it can not charge the batteries while playing CDs. After the rechargeable batteries have been charged the first time, subsequent charges should only take approximately three to four hours to reach 100% capacity.

3 Connect Headphones

Connect the supplied headphones to the MULTIFUNCTION Ω PORT on the side of the player.

If you are using the remote control, plug the headphones into the remote control, then plug the remote control into the MULTIFUNCTION PORT.

Tip: You can also use the LINE OUT jack to connect the player to an external audio system (cable not included) or the included Car Kit.





Playing Music



Insert Disc

- 1 Slide the OPEN button to release the latch, and open the player.
- 2 Remove the cardboard insert.
- 3 Insert an audio CD or MP3/WMA CD into the player, label side up.
- 4 Close the CD cover.

Note: The RioVolt can play CDs with the following logos:



2 Play Disc

1 Press the PLAY/PAUSE **HI** button to turn on the player and begin playback.

Note: There will be a short delay while the player loads your music tracks and track information.

2 Press the STOP ■ button to stop playback. Press and hold STOP ■ to turn off the player.

Note: If the RioVolt does not power on when you press PLAY/PAUSE II, check the LOCK/UNLOCK switch on the RioVolt and on the remote control to make sure they are both in the UNLOCK position.

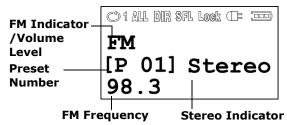
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Listening to the Radio

Switch to FM Tuner Mode

1 Press and hold the MODE/CD-FM button approximately 1.5 seconds to enter FM Tuner Mode.



The display switches to FM Tuner Mode, indicating the currently tuned frequency.

2 Press and hold the FORWARD → button to scan forward or the REVERSE ← button to scan back through the FM frequencies.

Setting Presets

1 Press the MODE/CD-FM button to enter Preset Program Mode.

The preset text blinks in reverse video.

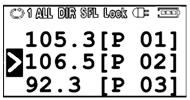
- 2 Press FORWARD → and REVERSE ← to cycle through the Preset Numbers [P 01-10].
- 3 Press PLAY/PAUSE ► to assign the current FM frequency to the displayed Preset Number.

4 Press STOP \blacksquare to return to FM Tuner Mode.

Note: Press and hold the PLAY/PAUSE M button while in Preset Program mode to cause the RioVolt to scan through the entire FM frequency range and assign all 10 presets to the strongest FM stations.

3 Using Presets

1 Press the TRACKS/MENU button to enter FM Preset Navigation Mode.



The preset FM frequencies and preset numbers are shown. Preset numbers are enclosed in brackets. When moving up and down through the preset list, each successive item is preceded by a cursor \ge .

- 2 Press STOP to move down the preset list. Press PLAY/PAUSE I to move up the list.
- 3 Press FORWARD → to select a preset. The RioVolt tunes to the selected frequency.
- 4 Press the TRACKS/MENU button exit FM Preset Navigation Mode.



Advanced Functions

Available advanced functions include:

Repeat/Shuffle

Track Navigation

Menu Options

Repeat/Shuffle

Press the MODE/CD-FM button to set the player to one of the following Repeat/Shuffle modes:

- **SFL ALL** Plays all tracks in random order once, then stops.
- **SFL DIR** Plays all tracks in the current directory/playlist in random order once, then stops.
- DIR Plays all tracks in the current directory/playlist in the order they are on the CD or playlist, then repeats.
- SFL
 DIR Plays all tracks in the current directory/playlist in random order, then repeats.
- \bigcirc **1** Plays the selected track, then repeats.
- SFL
 ALL
 Plays all tracks on the CD in random order, then repeats.
- C ALL Plays all tracks on the CD in the order they are on the CD, then repeats.
- DIR Plays all tracks in the current directory/ playlist in the order they are on the CD or playlist, then stops.

Track Navigation

Tracks Navigation Mode Regular audio CD (Red Book)



In Tracks Navigation mode the display shows the directories, playlists and tracks on the CD. Directory names and playlist names are enclosed in brackets ([]). If the directory, playlist or track information contains more characters than the display, the text scrolls from side to side.

When moving up and down through a list, each successive item is preceded by a cursor ≥. In the Display example shown above, the Directory has the highlighted cursor ≥ to indicate that it is the currently selected option. Pressing the FORWARD ⇒ button would allow you to navigate that directory.

- 1 Press the TRACKS/MENU button to enter Tracks Navigation mode. The LCD shows directories, playlists, and track file names.
- 2 Press STOP to move down the list of directories or playlists.

Press PLAY/PAUSE Ito move up the list of directories or playlists.

Riovalt

- 3 Press FORWARD → to select a directory or playlist to navigate. The contents of the directory or playlist display.
- 4 Press STOP to move down the list of track titles.

Press PLAY/PAUSE Ito move up the list.

- 5 Press FORWARD → to select a track to play. The track begins playing.
- 6 Press the TRACKS/MENU button to exit Tracks Navigation mode. If no button is pressed for 10 seconds, the RioVolt exits Tracks Navigation mode.

Track Navigation Mode MP3/WMA music CD



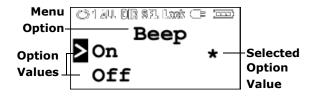
When an MP3 or WMA CD is loaded in the RioVolt, playlist names appear enclosed in brackets, as do

directories. Use the navigation controls $H \to H \to H$ to navigate within directories or playlists and to select tracks to play.

Menu Options

 To set Menu options, press and hold the TRACKS/ MENU button for approximately 1.5 seconds to enter Menu Mode.

Menu Mode



- 2 Press PLAY/PAUSE HI or STOP to navigate up and down through the list of available Menu options.
- 3 Press FORWARD → to select a Menu option.
- 4 Press PLAY/PAUSE I or STOP to navigate between settings for the Menu option The selected Menu option setting is indicated by an asterisk *.



Advanced FunctionsContentsIndexIndex13

Equalizer (EQ)

Choose from the following EQ presets:

EQ Preset	Bass Settings	Treble Settings
Normal (Default)	0	0
Classic	+2	+2
Рор	+3	+3
Jazz	+2	+3
Rock	+4	+3
Bass/Rap	+5	0
User	Set by Bass and Treble menu options	

Resume

If Resume is ON, when the RioVolt is powered on it resumes playing the track it was playing when the RioVolt was powered off. If Resume is OFF, when the RioVolt is powered on it begins playing the first track on the CD. Resume options include:

- ON Enables the resume function (default).
- OFF Disables the resume function.

Backlight

Backlight controls how long the backlight stays on after a button is pressed. Backlight options include:

- OFF
- 1 second (default)
- 5 seconds
- 10 seconds

Scan Speed

Scan Speed adjusts the speed at which the RioVolt scans forward or backward through a track as you hold down the REVERSE ← or FORWARD → buttons. Scan Speed options include:

- 2x (default)
- 4x
- 8x

Scroll Speed

Scroll Speed adjusts the speed at which the ID3 tag and file information scroll from side to side on the display. Scroll Speed options include:

- 1x (default)
- 2x
- 4x

Beep

Beep controls whether or not an audible beep is heard when buttons are pressed. Beep options include:

- ON Enables the beep capability (default).
- OFF Disables the beep capability.

Advanced Functions

Riōvolt

ID3 (Tag Display)

ID3 controls whether or not the RioVolt displays ID3 tag information while a track is playing. ID3 options include:

- ON Shows ID3 tag information on the display while a track is playing (default).
- OFF Displays only the file name.

CD ESP

The CD ESP (Electronic Shock Protection) feature controls how much music is buffered (stored in memory to prevent skipping) during CD playback.

	CD Audio	MP3/WMA
ON (Default)	480 seconds	1920 seconds
OFF	160 seconds	

NOTE: ESP is always active during MP3/ WMA playback regardless of the CD ESP setting.

Treble

The Treble setting allows you to control the high frequency range of the sound spectrum from -7 (no treble) to +7 (maximum treble). The default value is 0. Press PLAY/PAUSE \parallel or STOP \blacksquare to adjust the treble setting.

Bass

The Bass setting allows you to control the low frequency range of the sound spectrum from -7 (no bass) to +7 (maximum bass). The default value is 0. Press PLAY/PAUSE ► I or STOP ■ to adjust the bass setting.

Remote Button

This feature allows you to determine the function of the EQ/Function button located on the remote control. The options are:

- EQ (Default) Operates as an EQ button, toggling the EQ Presets.
- +10/+Dir Operates as the +10 button when pressed, skipping 10 tracks forward; When pressed and held, skips to the next directory on the CD.
- -10/-Dir Operates as the -10 button when pressed, skipping 10 tracks back; When pressed and held, skips to the previous directory on the CD.



Advanced FunctionsContentsIndexIndex15

Defaults

The Defaults feature automatically resets all Menu options to their default settings. Default options include:

- Reset Displays a confirmation screen (see below).
- Cancel Leaves settings unchanged.

If Reset is selected, the Menu option displays "Confirm?" and a second set of confirmation options:

- Yes Resets all Menu options to their default values.
- No Leaves settings unchanged.

Setting	Default Value
EQ	Normal
Resume	ON
Backlight	1 second
Scan Speed	2x
Scroll Speed	1x
Веер	ON
ID3 Tag Info	ON
CD ESP	480 seconds
Treble	0
Bass	0
Remote Btn.	EQ
Defaults	Cancel

<u>Contents</u>

Index

Using the Music Management Software

This section is an introduction to the music management software included on the CDs.

RealOne (PC)

MoodLogic (PC)

Riovolt

iTunes (Mac)

Installing the Software

PC

- 1 Place the software CD label side up into your computer's CD-ROM drive. After a few seconds, the install screen will display.
- 2 Click the "Install" link of the music management software that you would like to install, then follow the on-screen instructions.

You can also choose to view the User's Guide, get support or register your RioVolt online.

3 Reboot your computer when the software installation is complete or you are prompted to do so.

Note: If the install screen does not display automatically, follow these steps to begin the installation manually:

- 1 Click the START button in the bottom-left corner of your computer screen and choose RUN...
- 2 Type d:\install.exe in the field labeled OPEN. If your computer's CD-ROM drive uses a letter other than "d", substitute that letter for "d".
- 3 Click the OK button and follow the on-screen instructions.

Мас

- 1 Place the software CD label side up into your computer's CD-ROM drive.
- 2 The CD contents should display automatically. To manually display the CD contents, double-click the Rio icon on your computer's desktop.
- 3 Double-click the Install icon.
- 4 After a few seconds, the Rio splash screen will display.
- 5 Click the "Install iTunes" link, then follow the on-screen instructions to install the software. You can also choose to view the User's Guide, get support or register your RioVolt online.
- 6 Reboot your computer when the installation is complete.

<u>Contents</u>

Index

Using RealOne (PC)

Riōvolt

RealOne music management software is included on the PC software CD. Use RealOne to:

- Save (encode) your audio CDs into compressed digital audio formats like MP3.
- Organize digital audio tracks on your computer.
- Search for tracks on your computer or on the Internet.
- Create a custom CD—if you have CD burning hardware and your computer supports it.

To Learn More About Using RealOne

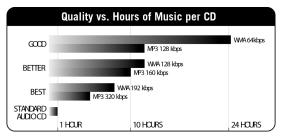
Please see the RealOne Help menu for detailed information on using RealOne.

- 1 Click the software Help menu.
- 2 Select Help Contents, Getting Started Guide, or Tutorial.

Setting Preferences

You can set Preferences to control, for example, the sample rate for encoded tracks, or if you want RealOne to automatically save (encode) audio CDs while they play. Please see the RealOne Help for more information about Preferences. To open the Preferences window you can either:

- Click the Tools menu and select Preferences.
- Click Preferences at the bottom of the Real One window.





RealOne Preferences Window

Riōvolt

Using the Music Management Software

<u>Contents</u>

Index 18

Saving an Audio CD

- 1 Start the RealOne software.
- 2 Put an audio CD in your computer's CD-ROM drive. If the Prompt To Save CD preference is enabled (under Preferences > CD), RealOne displays a dialog box asking if you wish to save the CD. If you select Yes, RealOne starts saving (encoding) all tracks on the CD. If this preference is not enabled, continue with Step 3.
- 3 After a few seconds, CD and track information display.
- 4 Click Save Tracks at the bottom of the window. A dialog box displays, where you can select individual tracks, or select all tracks by clicking the Check All button. Click OK when you are done.
- 5 RealOne starts saving the selected tracks into compressed digital audio format.

Click the Help Menu to Learn More —





<u>Contents</u>

Index 19

Burning a Digital CD

If you have a CD-R or CD-RW drive and your computer supports CD-ROM writing, you can use the RealOne software with its Easy CD Creator plugin software from Roxio to create your own digital audio CDs.

- 1 Start the RealOne software.
- 2 Click on the Devices tab at the bottom of the screen.
- 3 Click the box next to Data at the bottom of the screen.

Note: If Audio is selected instead of Data, the digital audio files will be burned on the CD as WAV files, which are much larger and take more memory, and more space on the CD. Selecting Data maintains the MP3 or WMA compression and allows you to store up to 999 songs on a single CD.

4 Click Add Clips at the bottom-left corner of the screen.

The Real One Add File screen pops up and lists all of the digital audio files you have on your computer.

- 5 Highlight the digital audio files you want to include on your CD.
- 6 Click Burn CD.

Note: For additional information on using RealOne to burn CDs, refer to the RealOne Online Help.



RealOne Devices Window

<u>Contents</u>

<u>Index</u> 20



Using MoodLogic (PC)

MoodLogic software helps you manage your digital audio collection. Your RioVolt package includes a free 100 track version of MoodLogic client software. Use MoodLogic to:

- Identify your songs regardless of file names and tags.
- Auto-classify your songs by genre, mood, tempo, and more.
- Auto-correct your file tags.
- Build instant playlists filled with songs that match your mood.
- Explore and sample new songs that are similar to your favorites.
- Share song profiles with other users.

For more information about MoodLogic, including a tutorial, tips & tricks, and FAQ, visit the <u>MoodLogic Web</u><u>site</u>.

Note: Your RioVolt SP350 supports Moodlogic playlists. Choose "Export to .m3u" to create an instant music mix to use the RioVolt's playlist feature.



MoodLogic Window

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<u>Contents</u> <u>Index</u> 21

Using iTunes (Mac)

iTunes music software takes the confusion out of managing your personal music collection. iTunes turns your Mac into a powerful digital jukebox, complete with easy-to-use tools for recording music from audio CDs (simply insert a CD to import music to MP3s), searching and browsing your entire collection, managing playlists, and listening to Internet radio stations.

To Learn More About Using iTunes

- From within the software, click the Help menu and choose iTunes Help or
- Visit the <u>iTunes Web site</u>.

iTunes Software Screen

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Riōvalt

Contents

Index 22

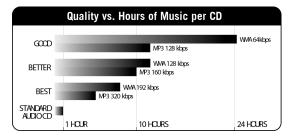
Glossary of Digital Audio Terms

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. Adjusting this level too high can cause distortion at high volumes in some music files.

Bitrate

Bitrate denotes the number of bits per second used to represent a digital music file. The size and quality of a compressed digital audio file is determined by the bitrate used when encoding the file. The higher the bitrate used, the higher the sound quality, and the larger the file size. For example, with MP3, a bitrate of 128kbps (128,000 bits per second) is generally thought of as "CD quality", and takes up about 1 megabyte (MB) per minute of music. At a 64kbps bitrate, the sound quality is similar to that of an FM radio signal, but you can get approximately two minutes of music in that same 1MB of storage space. CD audio has a bitrate of 1.4Mbits per second (1,400,000 bits/second).



Codec

Depending on the context and kind of technology involved, codec can be defined as a compressed digital audio file format (like MP3, WMA, and so on), 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 RioVolt supports the following digital audio codecs:

- MP3
- WMA
- CD Audio (<u>Red Book</u>)



Encoding, or "ripping" and encoding

Encoding, sometimes referred to as "ripping" and encoding, refers to extracting audio from a music CD (ripping), and converting it (encoding) into a compressed digital audio format like MP3 or WMA.

Firmware

Firmware is software—programs or data—that has been written onto read-only memory (ROM). Firmware is a combination of software and hardware that is comparable to an operating system on a computer. The RioVolt firmware controls everything from the liquid crystal display and codec support to the RioVolt's other functions.

Upgrading the RioVolt firmware

ID3 Tag

The ID3 tag is the part of the encoded MP3 file that contains information about the digital music file such as song title, artist, album title, encoding bitrate, track time duration, and so on.

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 reduces the file size by approximately a 12:1 ratio with virtually no perceptible loss in quality. This digital sound encoding and compression process was developed by the Fraunhofer Institut fur Integrierte Schaltungen and Thomson Multimedia. MP3 compression removes the redundant and irrelevant parts of a sound signal that the human ear doesn't hear. The MP3 encoding process is well suited for the transfer of high quality audio files with small file size over the Internet.

Red Book

The specification for audio (CD-DA) compact discs.

Treble

Treble is the high notes of the sound spectrum. Increasing the treble value will raise the levels of the high sounds in your music files.

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 the compressed audio format created by Microsoft as an alternative to MP3. WMA offers greater file compression than MP3, enabling you to store more music on your PC or writable CDs.

Glossary of Digital Audio Terms

<u>Contents</u>

Index 23

Riōvalt

Frequently Asked Questions (FAQ) Contents Index 24

Frequently Asked Questions (FAQ) What type of CDs can I play with the RioVolt?

You can play CDs that have MP3 and/or WMA music files or you can play regular CD audio music discs.

Can I mix CD Audio with MP3 and/or WMA files?

No. You can play either CD Audio discs or CDs with MP3/WMA music content. They cannot be mixed together.

Can I put both MP3 and WMA files on the same CD?

Yes. You can play a CD with both MP3 and WMA files and can choose tracks however you like.

What are the differences between MP3 and WMA?

If you use the WMA format instead of the MP3 format, your files are at about one half the size. Since WMA offers a smaller file size than MP3, it enables you to store more music on your PC or on your writable CDs. WMA files are exclusive to the PC.

What is the maximum number of songs I can put on a single CD?

You can store up to 999 music tracks per CD depending on the size of the music tracks and the available space on your CD-R/RW.

Will the RioVolt play Variable Bitrate (VBR) files?

There is no standard for VBR files, so we cannot guarantee that every encoding software package will properly function with the RioVolt. However, most VBR MP3 music files will play properly on your RioVolt.

Where is the battery indicator on my RioVolt?

The battery indicator on the RioVolt is located in the top-right corner of the display. The segments in the battery icon show the remaining battery power. All four segments illuminated = a fully charged battery. Segments not illuminated = a run down battery. The battery indicator blinks when less than 20% battery life remains.



Contents

Index

What kind of skip protection is there on the RioVolt?

The RioVolt uses Electronic Shock Protection (ESP) to help prevent skipping during playback. When playing MP3/WMA files, you get up to 1920 seconds (32 minutes) of skip protection. When playing Red Book Audio CDs, you have the option of up to 480 seconds of skip protection.

How does skip protection work?

When the player first starts, a buffer is filled with the track data. The CD stops spinning, and the tracks continue to play out of memory, which helps conserve battery life. When about 30 seconds of time remains in the buffer, the CD will again spin up and refill the buffer. Note that during this time, if the RioVolt is jarred so that the buffer cannot be filled — for example, when jogging or riding a bicycle — then the player may begin to skip. You will need to let the buffer fill in order to have skip-free performance.

What kind of batteries can I use with my RioVolt?

The RioVolt SP350 only uses rectangular 1400mAH NiMH batteries. Do not use alkaline batteries.

How much playtime can I get from 2 NiMH batteries?

Playtime varies with battery type and music content. However, as a guideline the following applies: MP3/ WMA CDs have up to 15 hours of music playtime. Audio CDs will have up to 6 hours of playtime with ESP on and 8 hours with ESP off.

The CD seems to stop spinning during playback. Is this normal?

Yes, it is normal for the CD to stop spinning during playback. This is part of the skip protection and battery life protection. When the CD is stopped, the Riovolt plays songs from memory. This serves as absolute shock protection during this time, as the disc is not even spinning.

Frequently Asked Questions (FAQ)

Contents Inc



How do I upgrade the RioVolt firmware?

Downloading the firmware upgrade from the Web site

- 1 Go to the SONICblue Web site at <u>www.sonicblue.com.</u>
- 2 Click the **Support** link.
- 3 Navigate to the Rio Technical Support Updates page.
- 4 Select and download the latest RioVolt xxx.exe (PC), RioVolt Update xxx.hqx (Mac) or RioVolt xxx.zip (for other operating systems, such as Linux) firmware upgrade file to your computer.

Note: Please see the text file included with the firmware update for instructions and additional assistance.

Upgrading the RioVolt firmware

1 Burn the unzipped file onto a Data CD with your CD-ROM Writer.

NOTE: The RioVolt will not play music contained on a CD that also has the firmware upgrade.

- 2 Place the CD in the RioVolt, and press the PLAY/PAUSE ► button to start the RioVolt. The RioVolt player will find the firmware, upgrade itself, and then turn off. During the upgrade, the RioVolt display shows the startup screen and replaces the flashing text "READING TRACKS" with the flashing text "UPGRADING" and the text "VERSON 1.0" with the text "SP350 WILL POWER OFF WHEN COMPLETE".
- 3 Remove the CD from the RioVolt. The upgrade is complete. You may now resume using your RioVolt player.



Troubleshooting

Problem	Solution
I am only able to fit 10-15 songs on a CD-R or CD-RW for my RioVolt.	If you are only able to fit 10-15 songs on a CD-R or CD-RW for use in your RioVolt, then it is likely you are creating the CD in audio or .wav format instead of data format. You should be able to fit hundreds of tracks onto one CD. Consult the documentation that came with your burning software for further assistance with this.
After creating a CD using DirectCD the RioVolt will not read it properly.	If the RioVolt is having trouble reading a CD created using DirectCD, make sure that the CD is formatted with compression OFF. If compression is ON, the RioVolt will not read the tracks properly. Check the documentation that came with your burning software for further assistance with this.
I am unable to power up the RioVolt. This happens when using new batteries or the AC power adapter.	Be sure that the LOCK/UNLOCK switch on the RioVolt is set to UNLOCK. If the LOCK/UNLOCK switch is in the LOCK position, you will be unable to power up the unit. Place the LOCK/UNLOCK Switch to the UNLOCK position and press the PLAY/ PAUSE button to power up the RioVolt.
The RioVolt is working with batteries, but when I plug in the AC adapter it does not work.	Be sure that the AC Adapter is plugged into the proper connection. You may be plugging the AC Adapter into the Line-out connector on the RioVolt. If you are still experiencing problems, be sure the LOCK/UNLOCK switch on RioVolt is set to UNLOCK.

Riōvolt[.]

TroubleshootingContentsIndex28

Problem	Solution
My RioVolt gives a "No Disk" error message when spinning up.	 To resolve the "No Disk" error message, try the following: Make sure the CD is seated properly in the tray. See if a standard audio CD functions properly. Try a CD created with standard MP3/WMA files encoded at 128kbps, NOT variable bitrate (VBR) files. Try burning to a different media or brand of media. Try burning a CD from another CD burner. See if burning at a slower rate (say 2x or slower) makes the files load properly. Try closing the CD volume when you create the disc. Try cleaning the lens with a cotton swab. If you are using a Macintosh to burn your CDs, make sure the .mp3 extension is at the end of each file. Some versions of Mac software do not include this extension, and these files cannot be read by the RioVolt. If you are getting this message when attempting to update the firmware, make sure the firmware file on the root of the CD is named correctly. The firmware update readme.txt file contains specific file name and firmware upgrade instructions.
I can't play my WMA files.	 The RioVolt does not read Secure WMA files. Secure WMA files are created to prevent theft and illegal copying of the files. In Windows Media Player, go to Tools > Options. On the CD Audio tab, un-check the "Enable Personal Rights Management" box. Re-create the WMA files and burn them to CD. They should play fine on the RioVolt.



TroubleshootingContentsIndex29

Problem	Solution
I get an error message when I start encoding a CD.	The following factors may interfere with the CD encoding process:Over-utilization of the CPU during the encoding process. Close all other software before encoding.
	 Insufficient RAM to cache the track properly. Generally, 64 MB is fine if no other memory-intensive application is running. Close all other software before encoding.
	• CD-ROM firmware. Even if a CD-ROM drive is new, it may require a firmware update from the manufacturer to correct audio extraction errors.
	 Overclocking. Overclocking the system—running it faster than it is rated to run—can have adverse effects on peripheral components. If your system is overclocked, bring it back to its normal operating speed.





Limited Warranty

Our warranty to you

SONICblue Incorporated warrants that your product will be free from defects in materials and workmanship for a period of one year from the date of original retail purchase. SONICblue Incorporated warrants refurbished products, marked and sold as such, for ninety (90) days from the original purchase date. This warranty is extended to the original end user purchaser only and is not assignable or transferable to any other party.

Product failures not covered by this warranty

This warranty does not cover damage caused by abuse, misuse, unauthorized attempts to open, modify, or repair the product, moisture, extreme heat or cold, corrosive environments, shipping, or high voltage surges from external sources such as power line, telephone line, or connected equipment. This warranty does not cover wear and tear on covers, housing or wiring. This warranty also does not apply to any product with an altered or defaced serial number.

Remedies

If you discover a defect covered by this warranty, SONICblue Incorporated will repair or replace the product at our sole discretion using new or remanufactured product or components. SONICblue Incorporated's liability is limited solely to the repair or replacement of the defective product. If SONICblue Incorporated cannot reasonably repair or replace the defective product then SONICblue Incorporated may, at its sole discretion, refund the purchase price paid for the product. SONICblue Incorporated warrants any replaced or repaired product for a period of ninety (90) days from shipment, or through the end of the original warranty period, whichever is longer.

How to obtain warranty service

To obtain service under this warranty, you must contact a SONICblue Incorporated Customer Care Center within the applicable warranty period to receive a warranty service authorization. You will be required to provide a dated original proof of purchase. Products shipped to SONICblue Incorporated must be shipped postage-paid and packaged appropriately for safe shipment. SONICblue Incorporated is not responsible for products received without a warranty service authorization and may be rejected. Repaired or replacement products will be shipped to you at SONICblue Incorporated's expense. All products or parts that are replaced become the property of SONICblue Incorporated.

Limits of liability

SONICblue Incorporated's liability is limited to the repair or replacement of this product. In no event will SONICblue Incorporated be liable for any amount greater than the currently suggested retail price of this product. We will not be liable to you or anyone else for any damages that result from the failure of this product or from the breach of any express or implied warranties. These include damage to other equipment, lost data, lost profits, or any consequential, incidental, or punitive damages. This written warranty represents the entire warranty agreement between SONICblue Incorporated and you. This warranty is given in lieu of all other warranties, express or implied, including without limitation implied warranties of merchantability and fitness for a particular purpose. This warranty is limited to the term specified above. No warranties, either express or implied, will apply after this period. This warranty may not be altered in any way other than in writing by an officer of SONICblue Incorporated. This warranty gives you specific legal rights and you may also have other rights, which vary, from state to state. Some states limit what warranties may be excluded as well as how long an implied warranty lasts, so the above limitation may not apply to you.

Riōvolt

Regulatory Information

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.

NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

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.

Customer Care

Web Site

http://www.sonicblue.com/support

E-mail

customersupport@sonicblue.com

Technical Support Telephone Call for answers to technical questions about your product. (503) 453-1640	Customer Service Telephone Call for sales and general product information. (800) 468-5846

Hours

Please check the support Web site for the current hours of operation.

Rio Product Support

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 <u>http://www.sonicblue.com/support</u>. 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 Web site.



Index

Symbols +10 / - 10 control 4

Α AC Adapter 8 audio file size 22 В backlight menu option 13 bass definition 22 menu option 14 batterv indicator 5 installation 8 replacement 25 beep menu option 13 bitrate definition 22 buttons and controls 4 С

CD ESP menu option 14 CDs burning 19 saving 18 codec definition 22 MP3 23 **WMA 23** common questions 24 configurable remote button 14 copyright/trademark information 3 customer care 32

D

DC in jack 4 default settings 15 defaults menu option 15

Е

electronic shock protection (ESP) 14, 25 encoding definition 23 equalizer (EQ) menu option 13 F Federal Communications Commission (FCC) 31 firmware definition 23 downloading from Web site 26 upgrading 26 FM tuner mode 10 setting presets 10 using presets 10 forward button 4 frequently asked questions (FAQ) 24 G

getting started 8 н headphone jack 4

Т

ID3 menu option 14 ID3 tag definition 23 important safety information 3 Industry Canada 31 installing the software 16 iTunes software 21

L

legal notices 3 limited warranty 30 line out iack 4 Linux 26 liquid crystal display (LCD) 5 listening to the radio 10 lock/unlock switch 4 М Mac software 21

menu options 12 mode/CD-FM button 4 MoodLogic software 20 MP3 definition 23 multifunction port 4 music management software 16

Ρ

PC software 17 play/pause button 4 playing music 9 presets numbers 10 program mode 10

R

RealOne software 17 red book definition 23 regulatory information 31 remote button menu option 14 remote control 7 repeat/shuffle modes 11 restoring menu option defaults 15 resume menu option 13 reverse button 4 ripping and encoding 23 S

safety information 3 scan speed menu option 13 scroll speed menu option 13 setting menu options 12 setup instructions 8 skip protection 25 software installation instructions 16





Riōvolt[.]



stop button 4

technical support 32 track navigation 11 tracks/menu button 4 treble definition 23

menu option 14 troubleshooting 27

U

upgrading firmware 26 **V**

variable bitrate (VBR) definition 23 volume + / - control 4

W

warranty 30 WMA definition 23