

RAVE·MP



User's Guide

Unpacking

- Rave-MP Sport Player
- Carrying Case with Arm Band
- Sport Clip Earbuds
- AAA Battery
- USB Cable
- Installation CD
- Quick Start Guide
- Customer Service Card
- Bonus Track List

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1 - Getting Started

Welcome

Congratulations on your purchase of this Rave-MP portable MP3 player. Not only does this versatile unit fit in the palm of your hand and play all your favorite MP3 and WMA files, it also has a built-in FM tuner (with recording capability), doubles as a removable drive, and even records and plays back voice recordings.

Cool Features

- MP3 and WMA playback
- PC & Mac support
- Rugged yet refined design
- 128x64 Mono Backlit LCD
- 128 or 256MB onboard
- SD/MMC Expansion slot
- FM Tuner / FM Recording / Voice Recording
- 5 Band Adjustable EQ with Presets
- Carrying case with arm band
- 18+ hour battery life
- Sport Earbuds
- WMA 9/DRM compatible and USB 2.0 Compatible



Player Overview



- 1 **Stereo Headphone Jack** - Connects to the supplied earbuds or other headphones equipped with a 1/8" (3.5mm) stereo mini-plug.
- 2 **Microphone** - Speak here when using the built-in voice recorder.

- 3 **Battery/Memory Card Cover** - Remove to install a single AAA battery (alkaline or NiMH). Also remove to install an optional MMC or SD memory card (up to 512MB).
- 4 **LCD Screen** - Displays the current status of the player; see page 7.
- 5 **VOLUME +/- Buttons** - Adjust the volume.
- 6 **MENU ≡ Button** - Displays the player's main menu. While in Menu mode, press to return to Play mode.
- 7 **HOLD Switch** - Locks the controls to prevent accidental operation.
- 8 **POWER ⏻ Button** - Turns the player on. Press and hold to turn the player off.
- 9 **Control Pad** - Controls playback and selects menu options:
 - **PLAY/PAUSE ▶||** - Starts and pauses playback.
 - **STOP ■** - Stops playback.
 - **PREV ◀◀** - Skips to the previous track (or to the start of the current track). Press and hold to scan backwards.
 - **NEXT ▶▶** - Skips to the next track. Press and hold to scan forwards.
 - **ENTER** - Makes selections in the menu system.
- 10 **Mini-USB Port** - Connects the player to your computer using the supplied USB cable.

LCD Overview

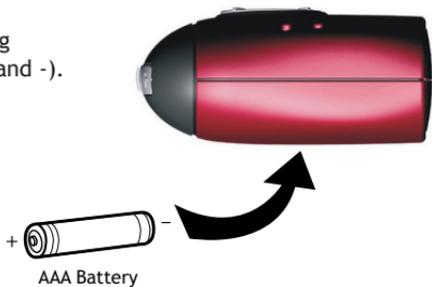


Indicators:

- 1 **EQ Setting** - Displays current EQ mode (Normal, Rock, etc.)
- 2 **Shuffle** - Displays current Shuffle mode (On or Off).
- 3 **Repeat** - Displays current Repeat mode (Repeat One, Repeat All, or Off).
- 4 **Hold** - Displays current Hold status (On or Off).
- 5 **Battery Level** - Displays current Battery status (Full, Medium or Low).
- 6 **Track Info** - Displays current Title, Artist, and Album.
- 7 **Progress Bar** - Graphically displays elapsed playback time.
- 8 **Track Status** - Displays:
 - Elapsed Time
 - Volume Level
 - Playback Status Icon (Play, Pause, Stop, etc.)
 - Current Track Number/Total Number of Tracks

Inserting the Battery

- 1 Remove the battery cover as shown.
- 2 Insert the supplied AAA battery, paying attention to the correct polarities (+ and -).
- 3 Replace the cover.



Connecting the Earbuds

- Connect the supplied earbuds as shown.



Installing the Software

- 1 Turn on your computer and insert the Installation CD into the CD-ROM drive.
- 2 The Welcome screen is displayed.
- 3 Install the driver (Windows 98SE only).
 - No driver is required for Windows ME, XP, 2000 or Mac OSX.
- 4 Install Windows Media Player 9.
 - If you do not already have Windows Media Player 9, you will be prompted to install it or update your current version.
- 5 Browse the Installation CD to check out:
 - Bonus Music Tracks
 - User's Guide (PDF)
 - Adobe Reader
- 6 Installation is complete!
 - You're now ready to connect the player to your computer...

System Requirements

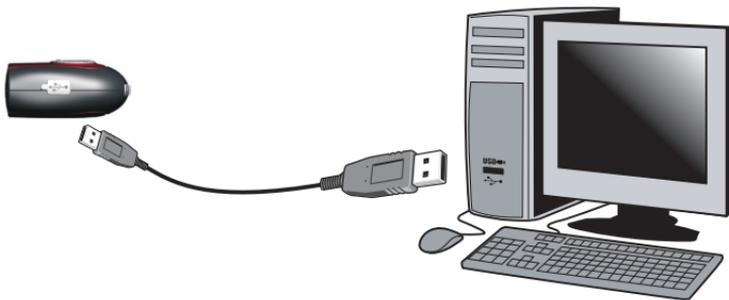
- Intel Pentium® II 300 MHz or above
- 128 MB RAM minimum
- 150 MB available hard drive space
- USB port
- CD-ROM drive
- Operating Systems Supported: Windows 98SE/ME/2000/XP/Mac OSX

2 - Loading Your Tunes

Connecting the Player to your Computer

In order to download tracks to the player, you must first connect the player to your PC or Mac using the supplied USB cable.

- 1 Connect the smaller end of the supplied USB cable to the mini-USB port on the player as shown.
- 2 Connect the larger end of this cable to any available USB port on your computer.
 - The player will power on automatically.
 - If this is the first time you have connected the player to a PC running Windows ME, 2000, or XP, your PC will detect "New hardware" and install the required drivers automatically.
- 3 The USB icon appears on the player's LCD screen.
- 4 You're now ready to load your tunes...



Notice For Windows 98SE Users

- If you connect the player to a PC running Windows 98SE, you must first install the Windows 98SE driver; see page 9.

Using Windows Media Player

You can use Windows Media Player 9.0 to manage your music files, copy tracks from your audio CDs, transfer tracks to the player, and more. The following is an overview of the options on the Windows Media Player taskbar:



- 1 **Now Playing** - Watch/listen to currently playing media.
- 2 **Media Guide** - Search for media (music, movies, etc.) online.
- 3 **Copy from CD** - Burn CD Audio tracks to WMA format.
- 4 **Media Library** - Create playlists and manage your media files.
- 5 **Radio Tuner** - Tune into streaming radio stations.
- 6 **Copy to CD or Device** - Copy tracks to your player or to a recordable CD.
- 7 **Premium Services** - Subscribe to an online music service, where you can browse and purchase tracks for your player.
- 8 **Skin Chooser** - Choose a look and feel for your Windows Media Player.

Adding Tracks to your Media Library

Windows Media Player will automatically gather all MP3 and/or WMA files on your PC into a media library, where they can be played, edited, burned to CD, or copied to your Rave-MP player:

- 1 Click Tools > Search for Media Files (or press F3).
- 2 In the “Add to Media Library by Searching Computer” dialog box, browse to the drive and folder where your music files are stored.
- 3 Click Search.
- 4 Windows Media Player will automatically add all tracks in the selected folder(s) to your media library.
- 5 When searching is complete, click Close.



Ripping Tracks from your CDs

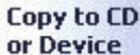
You can also use Windows Media Player to build your media library by encoding your Audio CDs in WMA format:

- 1 Insert an Audio CD.
- 2 Click Copy from CD.
 - The contents of the CD will be displayed.
 - By default, all tracks are checked.
- 3 Click the check mark next to any track you do not wish to rip to WMA format.
- 4 Click the Copy Music button to begin encoding the selected tracks.
 - NOTE: You can change your track encoding options by selecting Tools > Options > Copy Music.
- 5 When finished, Windows Media Player will automatically add the new tracks to your media library.



Transferring Tracks to the Player

To copy files from your PC to the player:

A rectangular button with a light blue gradient background and a thin border. The text "Copy to CD or Device" is centered on the button in a bold, black, sans-serif font.

- 1 Make sure the player is powered on and connected to your PC using the supplied USB cable.
- 2 Click Copy to CD or Device.
- 3 Under "Items on Device," select "Removable Disk" to view the contents of the player.
- 4 Under "Items to Copy", browse to the folder containing the tracks you want to add to the player.
- 5 Click the checkbox(es) next to the desired track name(s).
- 6 Click Copy.
- 7 The selected track(s) are copied to the player.
 - When you're finished copying files, see page 16 to safely unplug the player.

Using Other Music Management Applications

In addition to Windows Media Player 9.0, the Rave-MP player is compatible with other music management applications.

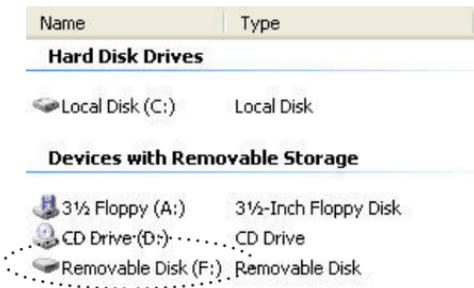
If you prefer, you can use these applications to manage your music files, burn your CDs, load your music, etc.

- **NOTE:** Many online music stores offer their own music management applications, which may or may not be compatible with the player. The player is **NOT** compatible with iTunes.

Using the Player as a Removable Drive

If you prefer, you can simply drag and drop files to the player, which appears as a removable hard drive on your PC or Mac.

- NOTE: The player will not play DRM-protected files (such as those purchased from online music stores) unless they are copied to the player via Windows Media Player or the music management software compatible with your online music store.
- 1 Make sure the player is powered on and connected to your computer using the supplied USB cable.
 - 2 Double-click the "My Computer" icon on your Windows desktop. The player appears as a "Removable Disk" icon with its own drive letter.
 - On a Mac, the player appears as a drive on the desktop.
 - 3 Double-click the disk icon to view its contents.
 - 4 Drag and drop your music files from your computer to the player.
 - You can also copy and paste files to the player using any standard Windows method.
 - 5 When you've finished copying files, see page 16 to safely unplug the player.



Safely Disconnecting the Player

If you are using Windows ME/2000/XP, it is recommended that you safely unplug the player as follows:

- 1 Double-click the “Safely Remove Hardware” icon in the Windows toolbar.
- 2 Select the player from the list of Hardware Devices.
- 3 Click Stop.
- 4 Click OK to confirm.
- 5 Click Close.
- 6 It is now safe to unplug the player from your PC.



- NOTE: Make sure all file transfers are complete before disconnecting the player.



3 - Using the Player

Basic Operations

Powering On the Player

- To turn on the player, press POWER \odot .
- To turn off the player, press and hold POWER \odot .

Basic Playback

- To play the current track, press PLAY/PAUSE $\blacktriangleright\parallel$.
- To pause playback, press PLAY/PAUSE $\blacktriangleright\parallel$ again.
- To stop playback, press STOP \blacksquare .
- To skip to the previous track (or to the start of the current track), press PREV $\blacktriangleleft\blacktriangleleft$.
- To skip to the next track, press NEXT $\blacktriangleright\blacktriangleright$.
- To scan backward within a track, press and hold PREV $\blacktriangleleft\blacktriangleleft$.
- To scan forward within a track, press and hold NEXT $\blacktriangleright\blacktriangleright$.

Adjusting the Volume

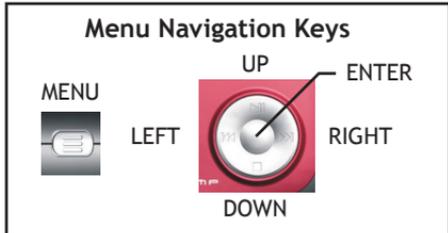
- To adjust the volume, press VOLUME+/-.

Locking the Keys

- To temporarily lock the keys and prevent unwanted operation, slide the HOLD button toward the lock icon.

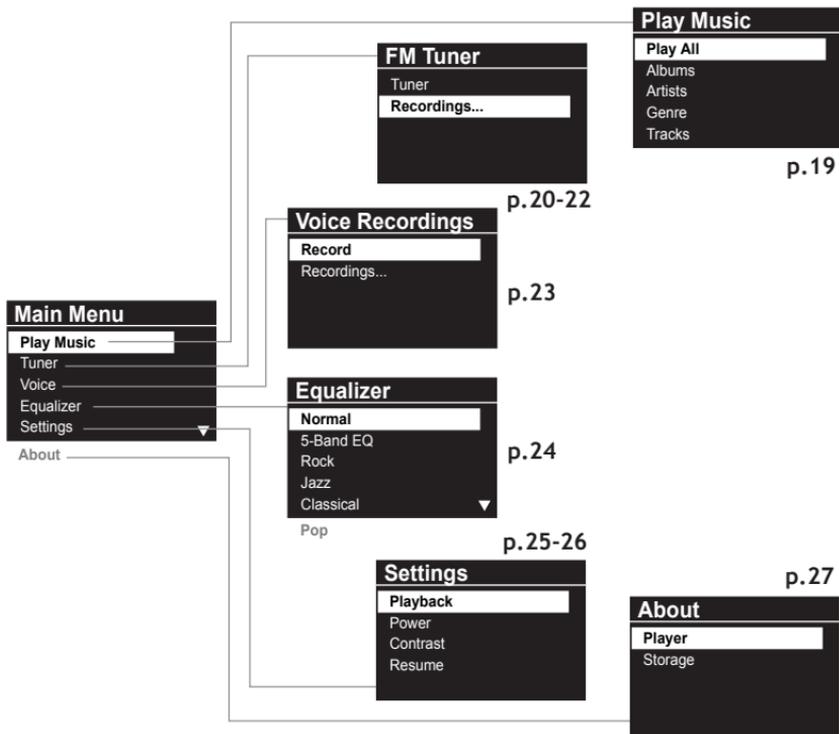
About Menu Navigation

- To navigate the menu system, use the Control Pad as shown at right.



Main Menu Overview

Press **MENU**  to open the Main Menu and access these special features:



Playing Albums, Artists & Genres

The Play Music menu includes a variety of ways to browse and play your music.

- 1 Press **MENU** .
- 2 Select Play Music and press **ENTER**.
- 3 Select from the following options:
 - **Play All**
 - Plays all tracks on the player in order.
 - **Albums**
 - Lists all albums on the player.
 - Select an album and press **ENTER**.
 - Select Play All to play the entire album, or select a track and press **ENTER** to play only that track.
 - **Artists**
 - Lists all artists on the player.
 - Select an artist and press **ENTER**.
 - Select Play All to play all tracks by that artist, or select an album and press **ENTER** to view the contents of that album.
 - **Genres**
 - Lists all genres on the player.
 - Select a genre and press **ENTER**.
 - Select Play All to play all tracks in that genre, or select a track and press **ENTER** to play only that track.
 - **Tracks**
 - Lists all tracks on the player.
 - Select Play All to play all tracks, or select a track and press **ENTER** to play only that track.

Play Music

Play All

Albums

Artists

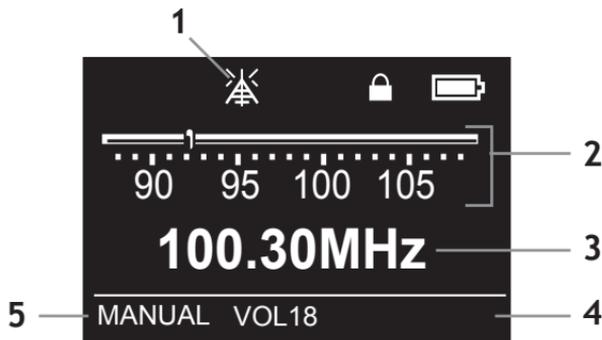
Genre

Tracks

Using the FM Tuner

Switching to FM Tuner Mode

- 1 Press **MENU** \equiv .
- 2 Select **Tuner** and press **ENTER**.
- 3 Select **Tuner** again and press **ENTER**.
- 4 The FM Tuner LCD is displayed:



Indicators:

- 1 **Strong Signal** - Appears if a strong FM radio signal is received.
- 2 **FM Frequency Slider** - Graphically displays FM radio band.
- 3 **Current Frequency** - Displays current radio station frequency.
- 4 **Volume Level** - Displays current volume level.
- 5 **FM Tuner Mode** - Displays current Tuner mode (Manual or Preset). Press **ENTER** to toggle between Tuner modes.

Using the FM Tuner (continued)

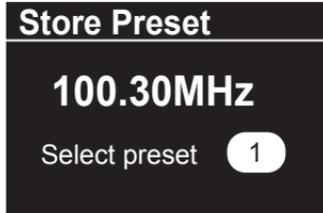
While you are in FM Tuner mode, you can search for stations, save Presets and select Presets.

Searching for FM Stations

- To manually search for stations (in 0.1 step increments), press **⏪** or **⏩**.
- To automatically scan for stations, press and hold **⏪** or **⏩**.

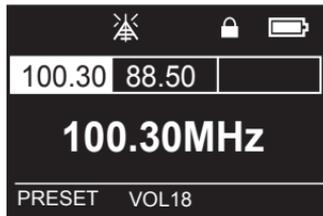
Saving Presets

- To save a station as a Preset, press and hold the ENTER button at the desired frequency.
- You can store up to 20 presets in this manner.



Selecting Presets

- To enter Preset mode, press ENTER.
- To browse your Presets, press **⏪** or **⏩**.
- To return to Manual mode, press ENTER again.



FM Radio Recording & Playback

Recording FM Broadcasts

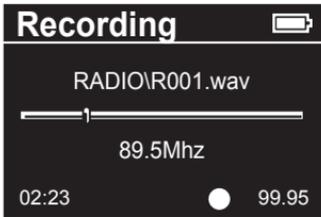
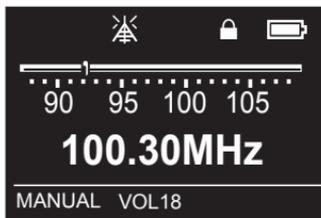
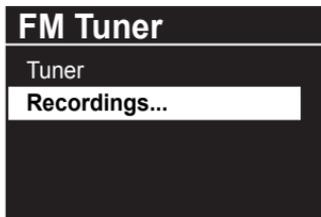
Not only can you listen to the radio, you can record your favorite broadcasts and listen to them later.

- 1 Press **MENU** .
- 2 Select Tuner and press **ENTER**.
- 3 Select Tuner again and press **ENTER**.
- 4 Use the **◀◀** / **▶▶** buttons to select the desired radio station.
- 5 Press **PLAY/PAUSE**  to start recording.
- 6 Press **STOP**  to stop recording.
- 7 A WAV file is created with the name "R00#.wav" and added to your list of recordings.

Playing Your FM Radio Recordings

To playback your FM recordings:

- 1 Press **MENU** .
- 2 Select Tuner and press **ENTER**.
- 3 Select Recordings... and press **ENTER**.
- 4 Select the desired recording from the list of WAV files and press **ENTER**.
- 5 The selected FM recording will play.



Voice Recording & Playback

Recording Your Voice

Record your next lecture, or just spy on your friends with the built-in voice recorder.

- 1 Press **MENU** .
- 2 Select Voice and press **ENTER**.
- 3 Select Record and press **ENTER**.
- 4 The player will begin recording using the built-in microphone.
- 5 To stop recording, press **STOP** .
- 6 A WAV file is created with the name "V00#.wav" and added to your list of recordings.

Playing Your Voice Recordings

To playback your voice recordings:

- 1 Press **MENU** .
- 2 Select Voice and press **ENTER**.
- 3 Select Recordings... and press **ENTER**.
- 4 Select the desired recording from the list of WAV files and press **ENTER**.
- 5 The selected voice recording will play.

Voice Recordings

Record

Recordings...

Recording



VOICEV001.wav



02:23



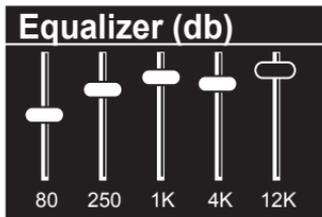
99.95

Adjusting Equalizer Settings

Setting the 5-Band Equalizer

You can manually adjust the 5-Band Equalizer to personalize your listening experience.

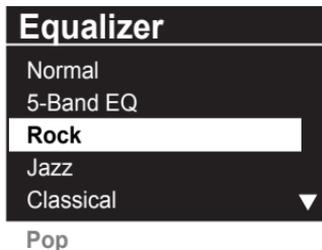
- 1 Press **MENU** .
- 2 Select Equalizer.
- 3 Select 5-Band EQ.
- 4 Set each of the five frequency sliders to the desired levels. Each band can be adjusted from -14 to +14.



Selecting a Preset EQ Setting

You can also choose a preset EQ level for five popular music genres.

- 1 Press **MENU** .
- 2 Select Equalizer.
- 3 Choose from the following Preset EQ levels:
 - Normal
 - Rock
 - Jazz
 - Classical
 - Pop



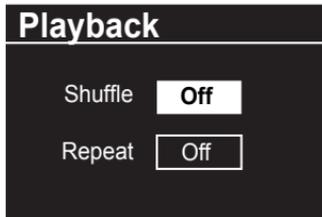
4 - Customizing Your Player

Inside the Settings Menu

Shuffle/Repeat Options

Sets your desired Shuffle and Repeat modes.

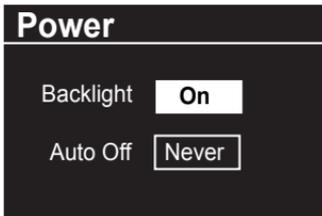
- 1 Press **MENU** .
- 2 Select Settings and press ENTER.
- 3 Select Playback and press ENTER.
- 4 Select from the following options:
 - **Shuffle** - Select "On" to shuffle tracks during playback. Select "Off" to disable Shuffle mode.
 - **Repeat** - Select "Repeat All" to repeat all tracks. Select "Repeat One" to repeat the current track. Select "Off" to disable Repeat mode.



Power Options

Sets the current Backlight and Auto Power Off mode.

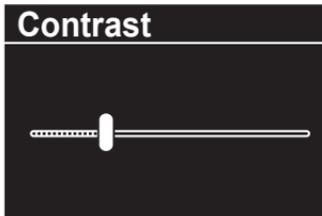
- 1 Press **MENU** .
- 2 Select Settings and press ENTER.
- 3 Select Power and press ENTER.
- 4 Select from the following options:
 - **Backlight** - Select "On" to have the backlight glow briefly when you press any button on the player. Select "Off" to disable the Backlight feature.
 - **Auto Off** - Select to have the player turn off automatically after a specified time of inactivity (1, 2, 5 or 15 minutes). Select "Never" to disable the Auto Off feature.



Contrast Options

Sets the Contrast setting for the LCD screen.

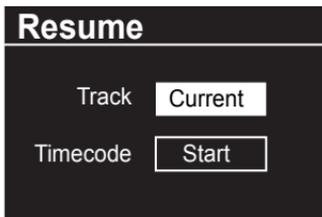
- 1 Press **MENU** .
- 2 Select Settings and press **ENTER**.
- 3 Select Contrast and press **ENTER**.
- 4 Adjust the screen contrast.



Resume Playback Options

Sets which track to play when you restart the player.

- 1 Press **MENU** .
- 2 Select Settings and press **ENTER**.
- 3 Select Resume and press **ENTER**.
- 4 Select from the following options:
 - **Track** - Select "Current" to resume playback of the last played track. Select "First" to play the first track on the player.
 - **Timecode** - Select "Current" to resume playback from the same point in the last played track. Select "Start" to resume playback from the beginning of the last played track.



Player/Storage Information

- 1 Press MENU ≡.
- 2 Select About and press ENTER.
- 3 Select from the following options:
 - **Player** - Select "Player" to view the firmware version of your player. This is necessary when checking for firmware upgrades (see below).
 - **Storage** - Select "Storage" to view the status of the internal and external memory, including the total used and available space.

About

Player

Storage

About Firmware Upgrades

The Rave-MP is firmware upgradable so new functionality can be added as it becomes available. Visit the Rave-MP Web Site (www.rave-mp.com) to check on the availability of firmware upgrades for your specific model.

5 - Need Help?

Troubleshooting

Q What type of files can I play?

A MP3 and WMA files. You cannot play AAC files or DRM protected files that have been copied directly to the player.

Q Why can't I play DRM protected files?

A DRM-protected files will only play if you copy them to the player through Windows Media Player or through the music management software provided by the online music store where you purchased the files.

Q What kind of batteries can I use?

A Either a standard alkaline or Nickel Metal-Hydride (NiMH) AAA battery.

Q How do I check battery life?

A Look at the battery indicator on the main LCD screen. The more the battery is filled in, the more charge remains.

Q Why don't the playback controls work?

A Check the Hold switch on the side of the player. If it is in "Lock" position, all keys on the player are locked to prevent accidental operation.

Q How do I change the Copy Settings in Windows Media Player?

A Click Tools > Options... > Copy Options and look under Copy Settings. You can select the format and sample rate of your audio files and choose whether or not you want to copy protect your music.



Technical Specifications

Model Name	Amp128/256
MP3 Decoding Format	Constant or Variable bit rate (8-320kbps), Sampling frequencies 8-48Khz
WMA Decoding Format	Constant bit rate (5-192kbps), Sampling frequencies 8-48Khz
Internal Memory.....	128/256MB
Internal Flash Support	SD/MMC (16/32/64/128/256/512MB)
LCD.....	128x64 dot-matrix LCD display with LED backlight
Voice Record Format	WAV format, IMA-ADPCM at 4-bit, mono, 8K sampling rate
FM Record Format	ADPCM format
FM Frequency Range	87.5-108.0 MHz
Interface	USB 2.0 High Speed (mini-USB connector)
Maximum Output.....	12mW + 12mW @16ohm headphone
S/N Ratio.....	>90 dB
THD	0.01-0.5%
Frequency Range	20Hz-20KHz
Battery	1 x AAA Type Alkaline/NiMH Battery
Maximum Playing Time	16-18 Hrs on one alkaline battery (MP3 file played at 128kbps)
Dimensions	1.9”(W) x 2.8”(H) x 0.9”(D) (48x70x22mm)

Rave-MP Limited Warranty

Who Provides the Limited Warranty

During the warranty period, the Rave-MP Warranty Administrator will honor service for 90 days parts and labor from the original date of consumer purchase. See below for Commercial, Industrial or Educational use coverage.

Who is Protected

This warranty protects the original consumer owner of this Rave-MP product.

What is Covered and How Long

This warranty covers internal operating parts and service/labor to repair or replace covered parts in this Rave-MP product for 90 days parts and labor, from the date of purchase, defined as follows: (1) Original Consumer Retail Purchase; (2) First Rental Purchase Agreement; or (3) First Lease Purchase Agreement (the "Warranty Period"). Labor and replacement parts supplied during the Warranty Period are covered only for the remaining portion of the original Warranty Period. The Rave-MP Warranty Administrator shall have no liability for service under this warranty if non-OEM (Original Equipment Manufacturer) replacement parts are used in the repair of your Rave-MP product.

What the Owner Must Do If Service is Required

Please contact our customer service department at 1-877-7RAVEMP (1-877-772-8367) to repair or replace your product, at Rave-MP's option, if it proves to be defective in material or workmanship under normal use, during the warranty period listed above, effective from the date of original consumer purchase of the product. Repaired or replacement units are warranted for the remaining period of the original warranty. Please retain dated sales receipt. Within the warranty period, the customer pays for inbound shipping charges and Rave-MP pays return shipping charges.

Other Warranty Coverage

Commercial, Industrial or Educational use has the same warranty coverage as stated in this warranty.

What are the Exceptions

This warranty does **not** cover: (1) Normal maintenance service, such as cleaning. (2) Damage from misuse, abuse neglect or accident, natural disasters or Acts of God. (3) Cabinetry, decorative parts, A/C adapters, knobs or buttons. (4) The foreign country use of this product. (5) Rave-MP product which has been electronically or mechanically modified in any way or incorporated into other products. (6) Installation and setup service adjustments. (7) Owner instruction. Your Owner's Guide provides information regarding operating instructions and user controls. For additional information, contact your authorized Rave-MP dealer.

Rave-MP is not responsible for any shipping, handling or insurance charges.

This Exclusive Limited Warranty excludes all incidental and consequential damages. Some states do not allow the exclusion of incidental and consequential damages, so the above exclusion may not apply to you.

ALL IMPLIED WARRANTIES, INCLUDING IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE LIMITED IN DURATION TO THE DURATION OF THIS WARRANTY PERIOD. Some states do not allow limitations on how long an implied warranty lasts, so the above limitation may not apply to you.

This Exclusive Limited Warranty gives you specific legal rights and you may also have other rights which vary from state to state.

Rave-MP WARRANTY ADMINISTRATOR

7835 East McClain Drive • Scottsdale, Arizona 85260-1732

www.rave-mp.com

1-877-7RAVEMP (1-877-772-8367)

Important Safety Instructions

- Read and keep these instructions. Follow all instructions. Heed all warnings.
- To reduce the risk of fire or electric shock, do not use or operate this apparatus in or near water or wet locations. Do not spill liquid on this apparatus.
- Apparatus should not be exposed to dripping or splashing and no objects filled with liquids, such as vases, should be placed on the apparatus.
- Risk of electric shock—Do not disassemble or modify this apparatus. No user-serviceable parts are inside. Refer all servicing to qualified service personnel.
- Servicing is required when the apparatus has been damaged in any way, such as when 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. Do not use in places exposed to strong magnetic or electrostatic fields (close to TV or speakers). Do not use in places where the humidity is excessively low.
- Risk of explosion, damage or battery leakage is possible if the 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. Stop operating this apparatus 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.
- Do not clean the apparatus with solvents, chemicals or abrasive cleaners. If necessary, use a soft cloth to clean the apparatus.
- Only use attachments/accessories specified by the manufacturer.

Product Care

- Exposure to extreme hot or cold temperatures may cause damage to the player or cause it to malfunction. Do not expose the player to direct sunlight continuously or leave it in a vehicle with the doors and windows closed. The case may become deformed or discolored or the player may malfunction. Do not use the player near an open flame.
- If moving from a cold environment to a warm environment, let the player's temperature stabilize before operation.
- Keep dirt, sand, dust, and moisture from entering the player. Do not use in areas of excessive dust. Do not use in places where the humidity is excessively high.
- Do not drop or subject the player to shock.
- If interference occurs close to radios or televisions, move the player away from them.

FCC Compliance

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

- 1 This device may not cause harmful interference, and
- 2 This device must accept any interference received, including interference that may cause undesired operation.

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

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

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