

Installation and Operation Guide

It's Under Control®

RTiDock



FEDERAL COMMUNICATIONS COMMISSION NOTICE

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. Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the device.

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 the 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.

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.
2. This device must accept any interference received including interference that may cause undesired operation.



DECLARATION OF CONFORMITY (DOC)

The Declaration of Conformity for this product can be found on the RTI website at: www.rticorp.com/declaration

SAFETY SUGGESTIONS

Read Instructions. Read all safety and operating instructions before operating the unit.

Retain Instructions. Keep the safety and operating instructions for future reference.

Heed Warnings. Adhere to all warnings on the unit and in the operating instructions.

Follow Instructions. Install and operate in accordance with the manufacturer's instructions.

Accessories. Only use attachments/accessories specified by the manufacturer.

Portable Cart Warning. Use only with the 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.



Heat. Do not block any ventilation openings.

Heat. Keep the unit away from heat sources such as radiators, heat registers, stoves, etc., including amplifiers that produce heat.

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

Power Sources. Connect only to the power cord that was included with the unit.

Power Cord Protection. Route power supply cords so that they are not likely to be walked on or pinched by items placed on or against them, paying particular attention to the cords at plugs, at convenient receptacles, and at the point at which they exit from the unit.

Water and Moisture. Do not use the unit near water—for example, near a sink, in a wet basement, near a swimming pool, near an open window, etc.

Object and Liquid Entry. Do not allow objects to fall or liquids to be spilled into the enclosure through openings.

Cleaning. Clean only with dry cloth.

Servicing. Do not attempt any service beyond that described in the operating instructions. Refer all other service needs to qualified service personnel.

Damage Requiring Service. The unit should be serviced by qualified service personnel when:

- Objects have fallen or liquid has been spilled into the unit.
- The power supply cord or the plug has been damaged.
- The unit does not appear to operate normally or exhibits a marked change in performance.
- The unit has been dropped or the enclosure has been damaged.

SAFETY SUGGESTIONS

WARNING!

**TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK,
DO NOT EXPOSE THE UNIT TO RAIN OR MOISTURE.**

LIMITED WARRANTY

Remote Technologies Incorporated warrants its products for a period of one (1) year from the date of purchase from Remote Technologies Incorporated or an authorized Remote Technologies Incorporated distributor.

This warranty may be enforced by the original purchaser and subsequent owners during the warranty period, so long as the original dated sales receipt or other proof of warranty coverage is presented when warranty service is required. Except as specified below, this warranty covers all defects in material and workmanship in this product. The following are not covered by the warranty:

Damage resulting from:

1. Accident, misuse, abuse, or neglect.
2. Failure to follow instructions contained in this Guide.
3. Repair or attempted repair by anyone other than Remote Technologies Incorporated.
4. Failure to perform recommended periodic maintenance.
5. Causes other than product defects, including lack of skill, competence or experience of user.
6. Shipment of this product (claims must be made to the carrier).
7. Being altered or which the serial number has been defaced, modified or removed.

Remote Technologies Incorporated is not liable for any damages caused by its products or for its failure of its products to perform, including any lost profits, lost savings, incidental damages, or consequential damages.

Remote Technologies Incorporated is not liable for damages based upon inconvenience, loss of use of the product, loss of time, interrupted operation, commercial loss, any claim made by a third party or made by you for a third party.

Remote Technologies Incorporated's liability for any defective product is limited to repair or replacement of the product, at our option.

If any component of your RTiDock needs service, please contact Remote Technologies Incorporated by telephone, fax or E-mail for return information. **Please do not return products to Remote Technologies Incorporated without return authorization.**

DISCLAIMER

All rights are reserved. No part of this document may be photocopied, reproduced, or translated without the prior written notice of Remote Technologies Incorporated.

The information contained in this document is subject to change without notice. Remote Technologies Incorporated shall not be liable for errors or omissions contained herein or for consequential damages in connection with the furnishing, performance, or use of this guide.

iPod, iPod classic, iPod nano, and iPod touch are trademarks of Apple Inc., registered in the U.S. and other countries.

"Made for iPod" means that an electronic accessory has been designed to connect specifically to iPod and has been certified by the developer to meet Apple performance standards. Apple is not responsible for the operation of this device or its compliance with safety and regulatory standards. Please note that the use of this accessory with iPod may affect wireless performance.

Microsoft, Windows, Windows XP, Windows Vista and Windows 7 are registered trademarks of Microsoft Corporation in the United States and other countries.

ZigBee is a registered trademark of the ZigBee Alliance.

RTiDock, Integration Designer, and the RTI logo are registered trademarks of Remote Technologies Incorporated.

Other brands and their products are trademarks or registered trademarks of their respective holders.

TABLE OF CONTENTS

Federal Communications Commission Notice.....	3
Safety Suggestions.....	4
Limited Warranty	6
Disclaimer	6
Table of Contents	7
Chapter 1 - Welcome	9
- Important Notes	9
- Product Contents	10
Chapter 2 - Features and Description	12
- Top/Front Panel	13
- Rear Panel	13
- RTiDock Parts and Functions	14
Chapter 3 - Cables and Control	16
- Installing iPod® into RTiDock	16
- Wiring and Connections	17
- Controlling the RTiDock	18
Chapter 4 - Configure Settings	23
- RTiDock Configuration	23
- RTiDock Status	28
Chapter 5 - Browse and Listen.....	30
- Accessing Content on iPod	30
- Browsing iPod.....	30
Chapter 6 - The RTiSync Application.....	35
- RTiSync Function	35
- Installing the RTiSync Application	35
- Configuring iPod Using the RTiSync Application.....	39
Chapter 7 - Troubleshooting	42
Chapter 8 - Specifications.....	45
Chapter 9 - Service and Support.....	47
Index	50

CHAPTER 1 | WELCOME

Thank you for using the RTiDock.

The RTiDock features a host of benefits not found on other docks for iPod models, such as rack-mount or desktop options, and the ability to sync with iTunes® over the network using RTiSync™ technology. For simple, intuitive operation the RTiDock has a video output and a full-featured on-screen GUI (graphical user interface) for navigation through iPod content on a video display. A sliding tray provides easy access and discreet storage of the iPod for added reliability and a clean design.

The RTiDock offers seamless integration with RTI control devices to access all transport functions of the iPod through full IR support. For more robust control to navigate through artists, songs, albums, and playlists, the device also allows bidirectional communication over RS-232 or IP with many RTI handheld and in-wall controllers.

IMPORTANT NOTES

Please read these important notes about the RTiDock:

- The RTiDock should be placed in an area where it is around normal room temperature (between 60°F to 90°F).
- Avoid installing the RTiDock in a location with little or no air circulation.
- Avoid installing the RTiDock in a location where it can come in contact with direct sunlight.
- Do not let the RTiDock system or get wet. It should not be handled with wet hands or placed in an area where it could get wet.
- Do not subject the RTiDock to smoke, dust, or vibrations.
- Only use the power cord that is supplied with the RTiDock. Using the wrong type of power cord may result in damage.
- Do not disassemble the unit. Service of the RTiDock should be performed by authorized personnel only.

CHAPTER 1 | PRODUCT CONTENTS

Contents within the box include the following items:

- One (1) RTiDock
- One (1) 12VDC/2Amp Power supply
- One (1) Installation guide

UNPACKING AND INSPECTION

After unpacking your new RTiDock, save all of the packing materials in case you ever have to ship the unit.

Thoroughly inspect the RTiDock and packing materials for signs of damage. Report any damage to the carrier immediately. Report any equipment malfunctions to RTI or an authorized RTI distributor.

CHAPTER 2 | FEATURES AND DESCRIPTION

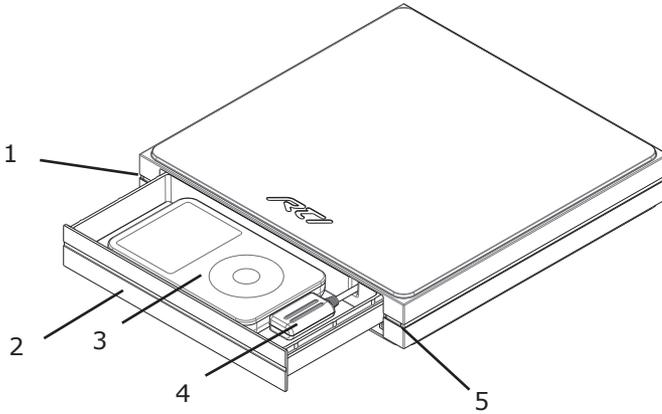
The RTiDock provides superior quality and reliability as well as these specific features:

- On-screen interface (GUI) for navigation of music on a TV display.
- Sliding tray provides a clean look and improved reliability.
- RTiSync™ technology allows syncing with iTunes over the network.
- Made for:
 - iPod touch® (1st, 2nd 3rd, & 4th generation)
 - iPod nano® (1st 2nd, 3rd, 4th, 5th & 6th generation)
 - iPod classic®
- Analog and digital audio output connectors.
- Built-in IR receiver and 3.5mm mini-jack for IR control.
- Supports, IR/RS-232/Ethernet control.
- Blue LED base emits a cool glow.
- Slim design allows rack mounting, or may be used free standing.
- Charges the mobile digital device battery.
- Screen saver mode shows album art on television display
- Field-upgradable firmware.

* Some iPod models are not supported.

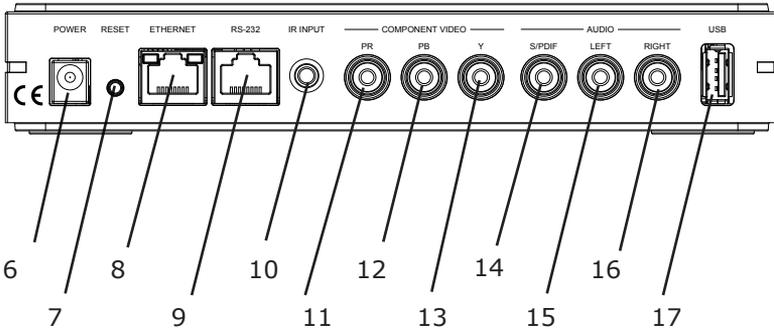
CHAPTER 2 | FEATURES AND DESCRIPTION

RTiDOCK: TOP - FRONT



1. RTiDock Status Light
2. Tray for iPod
3. iPod (purchased separately)
4. Connector and Cable for iPod
5. Infrared Receiver

RTiDOCK: REAR



6. Power Input Jack
7. Reset Button
8. Ethernet Port
9. RS-232 Port
10. IR Control Input
- 11, 12, 13. Component Video Outputs
14. S/PDIF Audio Output
- 15-16. Analog Audio Output (left/right)
17. USB Port (for future use only)

CHAPTER 2 | FEATURES AND DESCRIPTION

RTiDOCK PARTS AND FUNCTIONS

1. RTiDock Status Light

A solid red light indicates that an iPod is not present, or the power off IR command was sent. A flashing red light signifies that a RTiSync update is in-process.

2. Tray for iPod

Tray slides out for access to iPod storage.

3. iPod

iPod media player. NOTE: iPod not included with RTiDock kit.

4. Connector and Cable for iPod

iPod is plugged into this connector for power (recharging battery), audio output and remote updating of the iPod (via RTiSync).

5. Infrared Receiver

May be used for direct IR control from a remote, control system or IR repeating system.

6. Power Connector

Connect AC power adapter.

7. Reset Button

Pressing and holding this button for 3 seconds after a power cycle causes the RTiDock to initialize itself into the factory default configuration.

8. Ethernet Port

Connect Cat-5 Ethernet cable (RJ-45 termination) to local Ethernet network router or switch/hub.

9. RS-232 Port

Connect RS-232 cable from control system (RJ-45 termination). See page 18 for pinout detail.

10. IR Control Input

Connect infrared control wire from control system (3.5mm mono plug). IR codeset is found in the Integration Designer Programming software (RTI Dealer only).

11, 12, 13. Component Video Outputs

Connect component video cable (RCA plugs) output to television for video user-interface.

14. SPDIF Audio Output

Connect digital audio cable output to audio system.

15, 16. Analog Audio Output (left/right)

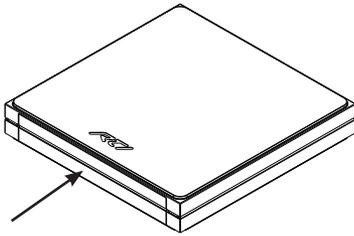
Connect audio cable output to analog audio system.

17. USB Port

For future use. PLEASE DO NOT USE.

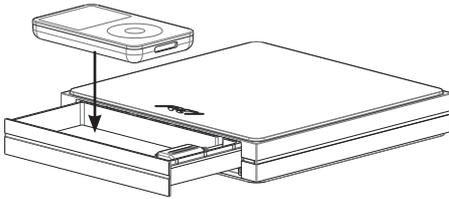
CHAPTER 3 | CABLES AND CONTROL

INSTALLING iPod INTO RTiDOCK

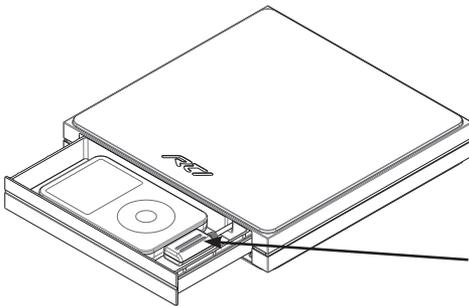


1. Open RTiDock tray

Press in to release tray, which will automatically slide out.



2. Place iPod in RTiDock tray



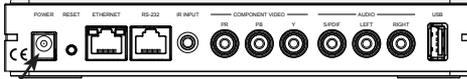
Connector and Cable for iPod

3. Plug iPod into connector

CHAPTER 3 | CABLES AND CONTROL

POWER RTiDOCK

- Plug in power supply that is included with RTiDock (12VDC/2Amp).



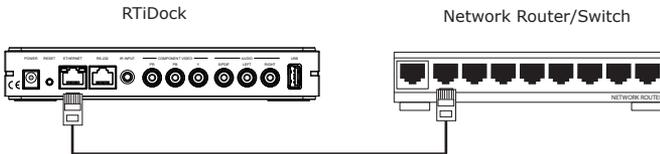
Power input jack

NETWORK (IP) CONTROL OF RTiDOCK

Control and two-way feedback (current song info, music library browsing etc.) is possible via a local Ethernet network (LAN).

NOTE: To receive album art feedback on an RTI system controller requires network control.

- Plug Cat-5 Ethernet cable to network port on RTiDock and to network router, hub or switch.



CONFIGURE NETWORK SETTINGS

- See Chapter 4 for configuration information using the video interface.

CHAPTER 3 | CABLES AND CONTROL

RS-232 CONTROL OF RTiDOCK

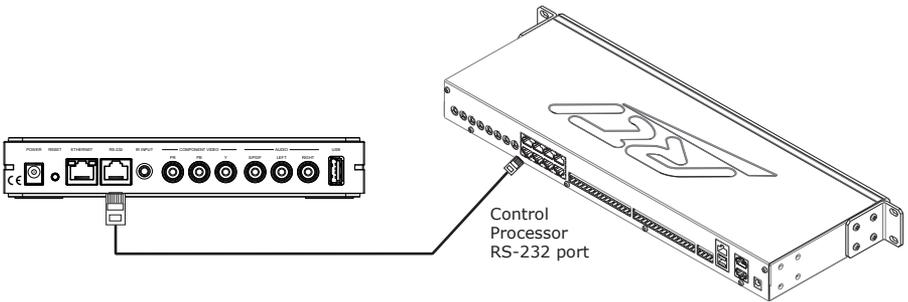
RS-232 control provides one-way control of the RTiDock and metadata feedback (such as current song info, music library browsing etc.) from a two-way capable RTI control system (control processor and controller). A set of RS-232 codes is available in the RTI Integration Designer programming software and RTI's website (accessible to RTI dealers only).

NOTE: Album art feedback on an RTI control system requires the use of Ethernet networking. Album art is not provided via two-way RS-232.

- 1) Plug Cat-5 cable to RS-232 port on RTiDock (RJ-45 termination using 568B standard).
- 2) Connect opposite end of Cat-5 cable.
 - Two-way control: Plug directly into dedicated RS-232 port on RTI control processor. (RJ-45 termination using 568B standard).

OR

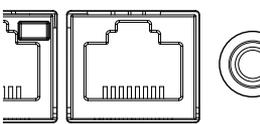
• One-way control: Plug into RJ-45>DB-9 adapter that is connected to an RS-232 cable (RTI CM-232 module) from a one-way RTI control processor or third-party control system.



Connection Settings:

Baud rate: 9600
Data bits: 8
Parity: None
Stop bits: 1

NET RS-232 IR INF



RJ-45 Jack Pinout:

1	RI/DSR	Data Set Ready
2	DCD	Carrier Detect
3	DTR	Data Terminal Ready
4	GND	Ground
5	RXD	Receive Data
6	TXD	Transmit Data
7	CTS	Clear to Send
8	RTS	Request to Send

CHAPTER 3 | CABLES AND CONTROL

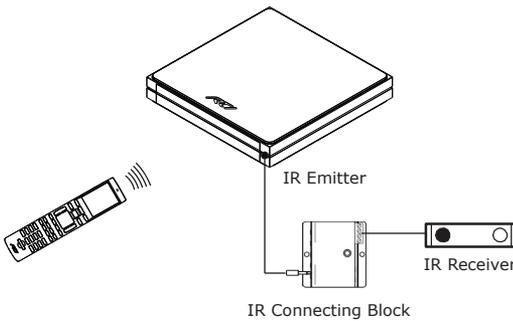
INFRARED (IR) CONTROL

Controlling the RTiDock is possible using infrared commands from a remote control, control system, or industry standard IR repeater system. A complete set of IR codes is available in the RTI Integration Designer programming software or on the RTI website (accessible to RTI dealers only).

USING THE IR RECEIVER

The infrared receiver is located on the front right side of the RTiDock and accepts IR commands from wireless remote controls or from an IR emitter.

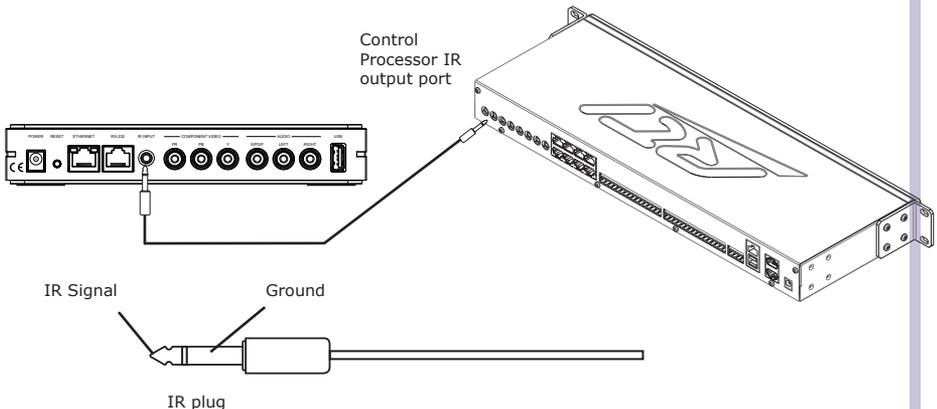
- Point a wireless remote control device at the front of the RTiDock.
- OR
- Attach an IR emitter of an IR repeater system, directly to the IR receiver window.



USING DIRECT IR INPUT

The direct infrared input is located on the rear of the RTiDock and accepts IR commands from a control processor or from an IR emitter.

- Using a cable with 3.5mm (mono) plugs on both ends, plug one end into the RTiDock IR input. Connect the opposite end of the cable to an RTI control processor IR output port or IR repeating system connecting block.



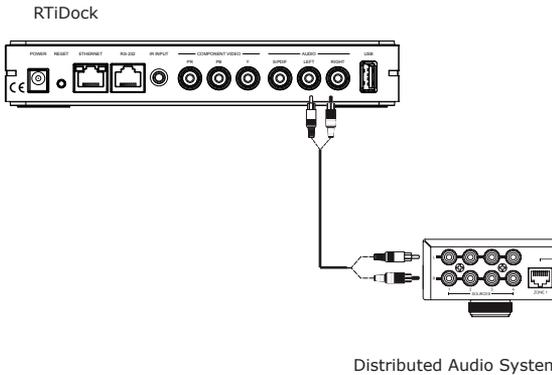
CHAPTER 3 | CABLES AND CONTROL

AUDIO OUTPUT

The RTiDock has an analog and a digital audio output. Both may be connected simultaneously for output to different devices. The digital (S/PDIF) audio output is recommended for best audio quality.

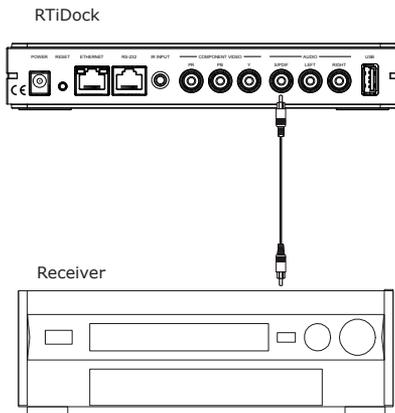
ANALOG AUDIO

- Using an audio cable with RCA connectors, connect to the analog outputs (left/right) on the rear of the RTiDock. Connect the opposite end of the cable to your audio system (distributed audio system, receiver etc).



DIGITAL AUDIO (S/PDIF)

- Using a digital audio cable with an RCA plug, connect to the digital audio output (S/PDIF) on the rear of the RTiDock. Connect the opposite end of the cable to your audio system equipped with a digital input (distributed audio system, receiver etc).

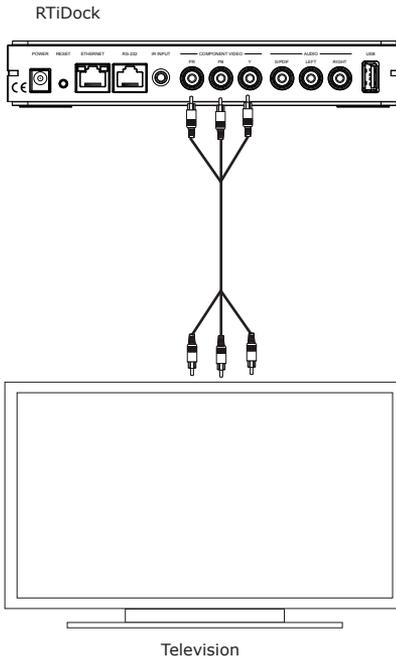


CHAPTER 3 | CABLES AND CONTROL

VIDEO OUTPUT

The RTiDock has a component output for displaying a video interface on a television or video monitor. The video interface allows browsing of music, viewing “now playing” information including album art and adjusting the settings of the RTiDock.

- Using component video cables (RG59, RG6) with RCA plugs, connect to the video outputs (Y/PB/PR) on the rear of the RTiDock. Connect the opposite end of the cable to your television or video distribution system.



CHANGING THE RTiDOCK TO OUTPUT PAL VIDEO SIGNAL

Pressing and holding the menu key for 5 seconds will cause the RTiDock to toggle between NTSC and PAL video signals. The default value is NTSC (United States). If your video equipment requires PAL output signal, then this operation will be required before the video output of the RTiDock will be visible. The iPod must be removed from the RTiDock prior to pressing and holding the menu key. This prevents accidental toggling of the NTSC/PAL setting.

CHAPTER 4 | CONFIGURE SETTINGS

RTiDOCK CONFIGURATION

Configuration of the RTiDock settings is accomplished using a video interface displayed on your television or video monitor or via the RTiSync Application (see page 39 for RTiSync configuration instructions). A remote control or control system programmed with the RTiDock commands is required to navigate the menus and adjust settings.

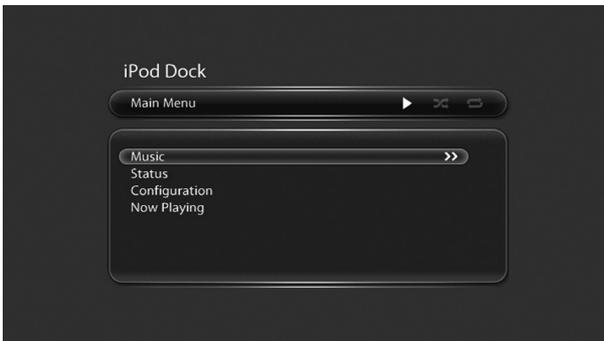
ADJUSTABLE SETTINGS

- Language - select from available languages.
- Sound - music playback options.
- Screen - album art settings.
- Network - configure network settings.
- Other settings - power and LED status.

ADJUST SETTINGS

- 1) With the RTiDock powered and plugged into a video monitor (TV set to this input).
- 2) Using a remote control cursor controls, navigate to the MAIN MENU.
- 3) Select CONFIGURATION.

MAIN MENU



CONFIGURATION MENU



CHAPTER 4 | CONFIGURE SETTINGS

SELECT LANGUAGE



- 1) From the CONFIGURATION MENU select LANGUAGE.
- 2) Select the language that will be used for the RTiDock interface using the cursor controls on the remote control (Up/Down).
- 3) Send the "Select" command to accept the language change.

SELECT SCREENSAVER MODES



- 1) From the CONFIGURATION MENU select SCREEN.
- 2) Navigate to the setting that needs to be adjusted using the cursor controls (UP/DOWN) on the remote control.
- 3) Send the SELECT command to "highlight" the setting.
- 4) Use the cursor controls (UP/DOWN) on the remote control to adjust the setting.
- 5) Send the SELECT command to accept the setting.

SETTINGS

- Album Artwork
 - ON = Album artwork will be displayed as "Now Playing".
 - OFF = RTI logo will be displayed as "Now Playing".
- Screen saver time = Set the length of time before the screen saver comes on the screen

CHAPTER 4 | CONFIGURE SETTINGS

ADJUST SOUND SETTINGS AND PLAYBACK MODES



- 1) From the CONFIGURATION MENU select SOUND.
- 2) Navigate to the setting that needs to be adjusted using the cursor controls (UP/DOWN) on the remote control.
- 3) Send the SELECT command to "highlight" the setting.
- 4) Use the cursor controls (UP/DOWN) on the remote control to adjust the setting.
- 5) Send the SELECT command to accept the setting.

SETTINGS

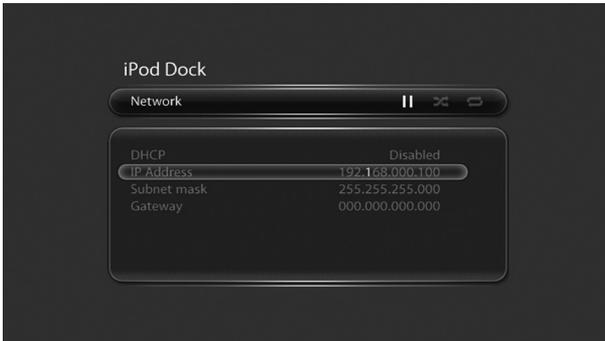
- Equalizer
 - ON = Gives discrete control of bass and treble levels.
 - OFF = Bass and treble levels set to 50%.
- Shuffle
 - ON = Tracks on current playlist/album play in a random order.
 - OFF = Tracks play in order of playlist/album.
- Repeat
 - ON = Tracks on current playlist/album will play continually.
 - OFF = Tracks on current playlist/album will play once.
- Sound Check
 - Used in conjunction with iTunes Sound Check
 - ON = All songs are played at the same volume level.
 - OFF = Songs are played at the level they were recorded.
- Audiobook Speed
 - NORMAL = Playback speed not adjusted.
 - FAST = Slightly faster playback to reduce listening time.
 - SLOW = Slightly slower playback.

CHAPTER 4 | CONFIGURE SETTINGS

NETWORK SETTINGS



- 1) From the CONFIGURATION MENU select NETWORK.
- 2) Navigate to the setting that needs to be adjusted using the cursor controls (UP/DOWN) on the remote control.
- 3) Send the SELECT command to “highlight” the setting.
- 4) Use the cursor controls (UP/DOWN) on the remote control to adjust the setting.
- 5) Send the SELECT command to accept the change and move to the next field of each setting.



Each digit of the network address will need to be adjusted individually.

SETTINGS

- DHCP - Use this setting to let your network router automatically assign the IP address information. (NOTE: If an RTI control system using two-way feedback will be used with the RTiDock, this setting should **not** be enabled. A static IP address should be assigned).
- IP Address - Set the IP address for the RTiDock (NOTE: This address must be different from all other devices on the network).
- Subnet Mask - This address must match the Subnet used by other devices on the network.
- Gateway - This is the IP address of the router on the local network.

CHAPTER 4 | CONFIGURE SETTINGS

ADJUST POWER CONTROL AND LED SETTINGS



- 1) From the CONFIGURATION MENU select OTHER SETTINGS.
- 2) Navigate to the setting that needs to be adjusted using the cursor controls (UP/DOWN) on the remote control.
- 3) Send the SELECT command to "highlight" the setting.
- 4) Use the cursor controls (UP/DOWN) on the remote control to adjust the setting.
- 5) Send the SELECT command to accept the setting.

SETTINGS

- Power control
 - Enabled = This is the Power Save and default mode. It allows the power on/off commands to function. In this mode, less than 1 Watt of electricity is consumed until the unit wakes up due to activity.
 - Disabled = In this mode, the RTiDock is always powered on.
- LED control
 - Reflect power status = The blue LED's will be turned off when the Power Save mode is activated.
 - OFF = The blue LED's will be turned off.

CHAPTER 4 | CONFIGURE SETTINGS

RTiDOCK STATUS

During installation and troubleshooting, it may be necessary to check the status of the RTiDock.

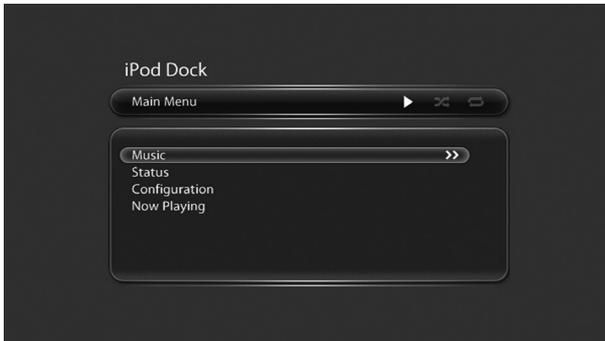
STATUS INFORMATION

- Version - Firmware version running on the RTiDock.
- IP Address - IP address assigned to the RTiDock.
- MAC Address - Unique identifier assigned to this RTiDock for Ethernet communications on the network. (NOTE: the MAC address is not configurable).

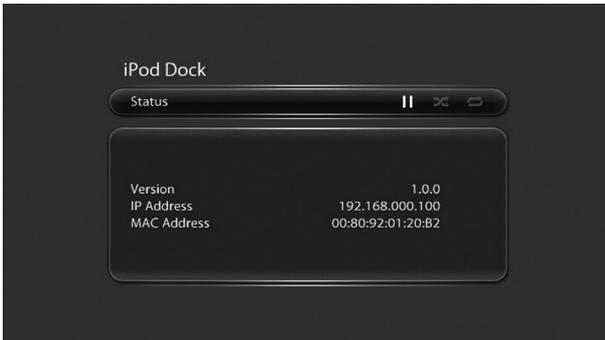
CHECK RTiDOCK STATUS

- 1) Bring up the RTiDock interface on your TV or RTI controller.
- 2) Using the remote control cursor controls, navigate to the MAIN MENU.
- 3) Select STATUS.

MAIN MENU



STATUS INFORMATION



CHAPTER 5 | BROWSE & LISTEN

ACCESSING CONTENT ON YOUR iPod

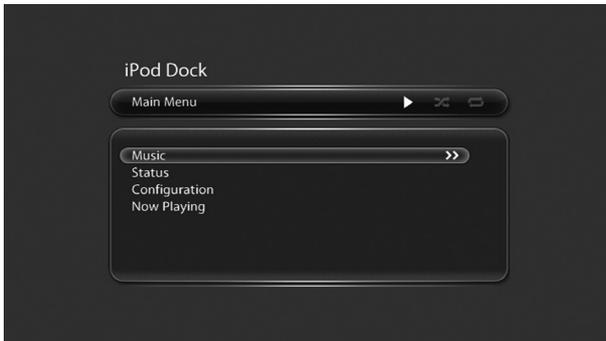
The RTiDock features a guide that allows you to easily browse through the content of your iPod. A scrolling list displays your music in categories and allows you to drill down into each category to gain access to a specific album, artist, song etc.

NOTE: If an RTI control system will be used that is capable of two-way communication, you may browse your content directly on the in-wall or handheld controller.

BROWSING YOUR iPod

- 1) Bring up the RTiDock interface on your TV or RTI controller.
- 2) Using the remote control cursor controls, navigate to the MAIN MENU.
- 3) Select MUSIC.

MAIN MENU



CHAPTER 5 | BROWSE & LISTEN

MUSIC MENU



- 1) Navigate to the category you would like to browse using the cursor controls (UP/DOWN) on the remote control.
- 2) Send the SELECT command to open the category.

MUSIC SEARCH CATEGORIES

- Playlists - Search by playlist.
- Artists - Search by artist name.
- Albums - Search by album.
- Songs - Search by song title.
- Podcasts - Search by podcast.
- Genres - Search by genre.
- Composers - Search by composer.
- Audiobooks (not shown above, but becomes visible when you scroll down the Music Menu) - Search by audiobooks.

CHAPTER 5 | BROWSE & LISTEN

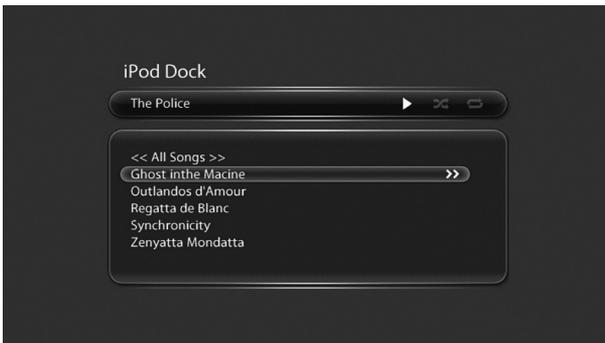
Below is an example of drilling down into a search category. As each selection is made it will open a new list containing the information for that category.

NOTE: If the option for "<<All Songs>>" is selected, all tracks within this category will be played.

ARTISTS MENU



ALBUMS BY SELECTED ARTIST



SONG TITLES ON SELECTED ALBUM



CHAPTER 5 | BROWSE & LISTEN

NOW PLAYING

Once a music selection has been made, a NOW PLAYING screen will show the information about the track that is being played.

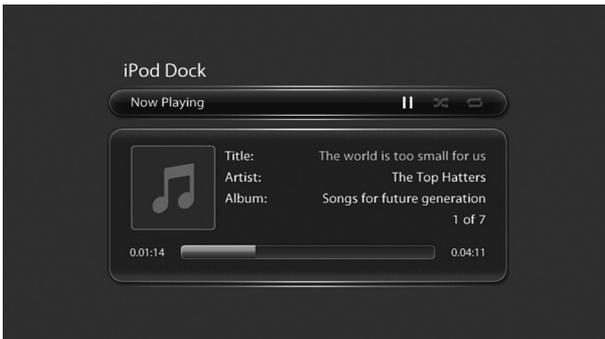
SEE NOW PLAYING INFORMATION

- 1) Open the RTiDock interface on your TV or RTI controller.
- 2) Using the remote control cursor controls, navigate to the MAIN MENU.
- 3) Select NOW PLAYING.

MAIN MENU



NOW PLAYING INFORMATION



NOW PLAYING INFORMATION

- Album Art - Album art graphic for selected album. If no graphic can be found, a note graphic will be displayed.
- Title - Song title.
- Artist - Artist name.
- Album - Album name.
- Track number - Track number on playback list.
- Progress bar - Current track play time.

CHAPTER 6 | THE RTISYNC APPLICATION

RTiSYNC FUNCTION

With the RTiSync Application, you can update albums, artists, songs, playlists, podcasts, and/or applications on your iPod just as if you had it plugged into your PC. The difference is that with RTiSync, you can do all of this remotely from your PC's iTunes Application while your iPod is still plugged into the RTiDock.

INSTALLING RTiSYNC

The RTiSync application is available for download onto your PC by visiting: www.rticorp.com/dealers

To complete the installation process, please follow the instructions below.

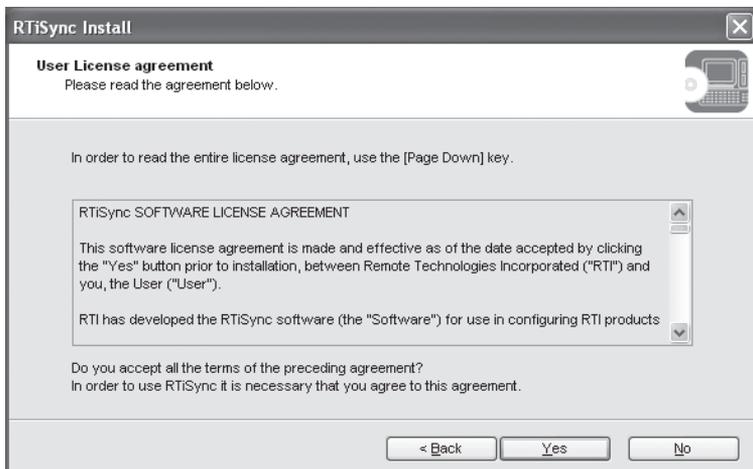
- When the installation wizard begins running, an information window appears asking you to select a language.
- Select the appropriate language from the list by highlighting the desired language and then clicking the [Next] button.



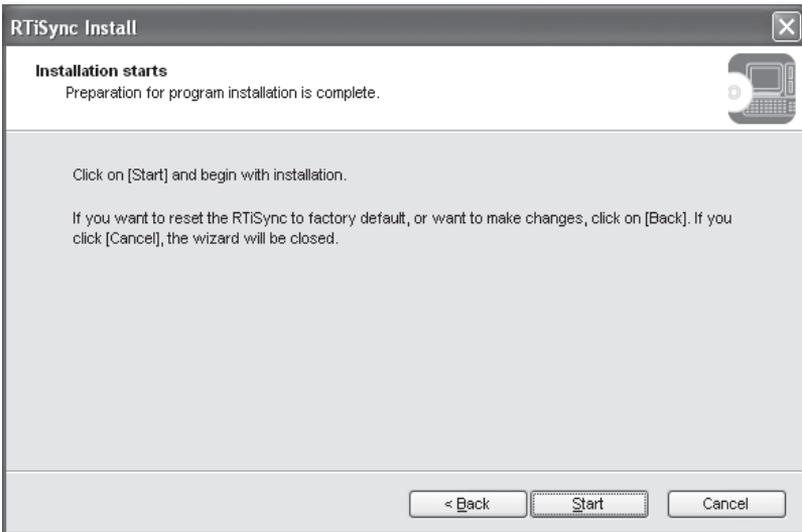
- A Welcome to the RTiSync Install window appears.
- Follow the instructions in the window and click the [Next] button to continue the installation process.



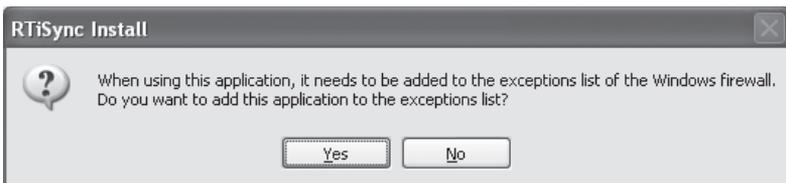
- You are then directed to the User License Agreement.
- It is recommended that you read the entire agreement before proceeding.
- Click [Yes] if you agree to the terms, or [No] if you do not agree.
- Please note that you must agree to the terms in order to proceed with the installation.



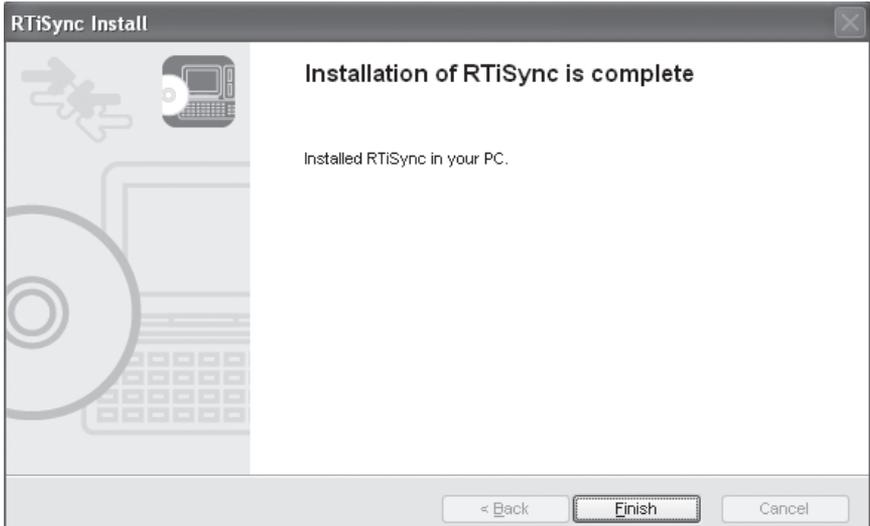
- Click the [Start] button in the next window that appears on your screen to begin with installation of the RTiSync Application.
- Your PC's installation wizard will begin installing RTiSync on your PC.
- Please note that this process could take several minutes.



- During the installation process you will be asked if you want to add the RTiSync Application to the exceptions list of the Windows Firewall.
- Click [Yes] or [No] appropriately, but please note that the RTiSync Application must be added to this exceptions list in order to run.



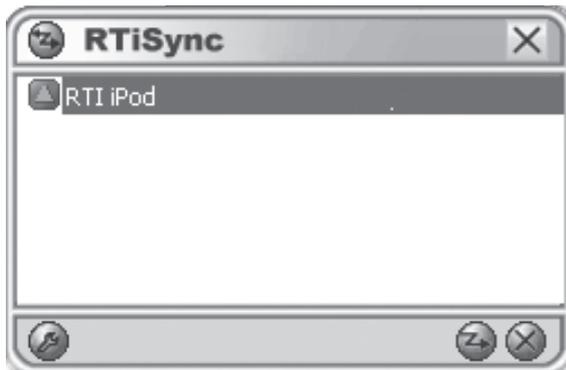
- Once the installation is complete, a new prompt will appear in the installation window.
- Click the [Finish] button to complete the installation.



- To access the RTiSync Application, click the RTiSync button displayed on the lower right of your PC's desktop.



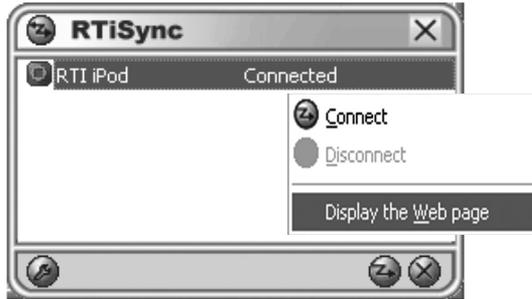
- Upon clicking the RTiSync button, the RTiSync menu launches and appears on the lower right of your screen just above the toolbar.



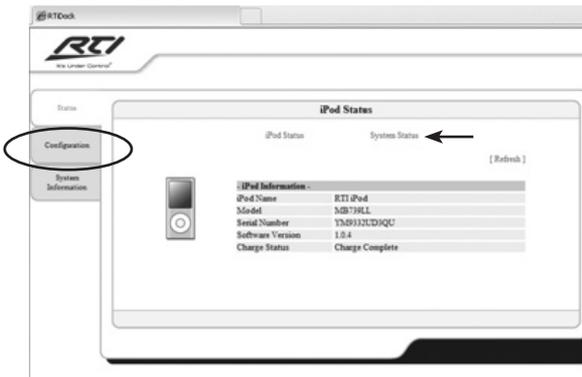
CONFIGURING RTiDock USING THE RTiSYNC APPLICATION

The RTiSync Application allows you to configure your RTiDock's settings in the same manner as if you were using your TV to configure the settings. To configure your RTiDock's settings using this method ensure that your PC is connected to the internet.

- Start by launching the RTiSync menu and right clicking the connected RTI iPod. Select the "Display the Web page" option from the menu options.



- Your Web browser will open the Status tab with the display showing the iPod Status default. This tab displays the iPod Name, Model, Serial Number, Software Version, and Charge Status. You can also view the System Status by selecting the System Status link toward the top-center of the page.
- To change your configuration settings, select the Configuration tab.



- Upon selecting the Configuration tab a prompt will appear asking for your username and password. The RTiDock is shipped with a default username of "root" and no password set. Enter "root" into the User name field, leave the Password field blank, and select the [OK] button.



- After selecting the [OK] button the Configuration tab will open. From this screen you will be able to change the following configuration settings: IP Address, Subnet Mask, Default Gateway, LAN Interface, Video Mode (NTSC or PAL), Artwork Download (Enable or Disable), Screen Saver Start Time, Power Control (Enable or Disable), and/or LED Control Mode (Reflect power status or Always off). Please refer back to Chapter 4 for descriptions of these settings.



- You can also view important system information, such as MAC Address, Firmware Version, and the URL by selecting the System Information tab. Additionally, you can change/reset your password and/or update your firmware by selecting the appropriate link located on the top of the page.

The screenshot displays the RTI RTCod web interface. The top left corner shows the RTI logo and the slogan "It's Under Control®". Below the logo is a navigation menu with "Status" and "Configuration" tabs. The "Configuration" tab is active, and within it, the "System Information" sub-tab is selected and circled. The main content area is titled "System Information" and contains a table with four columns: "System Information", "Password", "Reset", and "Firmware Update". The table lists the following items:

Item	Contents
MAC Address	00:80:92:01:20:B1
Firmware Version	1.0.0b12
URL	Remote Technologies Inc.

At the bottom left of the interface, the word "Done" is visible.

CHAPTER 7 | TROUBLESHOOTING

If you are having problems with your RTiDock, please read the information below before contacting technical support.

RTiDOCK DOES NOT FUNCTION PROPERLY

Symptom: No sound coming from RTiDock

Possible Causes:

- iPod is not connected > Verify iPod is connected in RTiDock Tray.

iPod not connected error message.



Symptom: No power

Possible Causes:

- AC power unplugged > Check AC cable and outlet.
- Main power switch not on > Is main power light on?
- Outlet has no power > Verify outlet has power.

Symptom: No IR control through IR receiver

Possible Causes:

- Faulty wiring > Verify all wiring & terminations.
- IR signal level > Adjust IR signal going to IR emitter.
- IR emitter > Verify IR emitter is working.
- IR emitter placement > Verify emitter is properly placed.

Symptom: No IR control using direct IR 3.5mm mini-jack.

Possible Causes:

- Faulty wiring > Jack is 1/8" mono, tip = IR+, ring=Gnd.
- IR signal level > Adjust IR signal going into RTiDock.

Symptom: No RS-232 control of RTiDock.

Possible Causes:

- Faulty wiring > Check RS-232 pinout.
- Incorrect string > Verify string from manual.
- No carriage return > String requires carriage return.

Note: To force a factory reset, press and hold the reset button for 3 seconds.

CHAPTER 7 | TROUBLESHOOTING

Symptom: No video is displayed or an “invalid format” error message is displayed through the component video output of the RTiDock

Possible Causes:

- The NTSC/PAL video signal setting is toggled incorrectly > Verify NTSC/PAL video signal setting is toggled correctly.

CHAPTER 8 | SPECIFICATIONS

Dock DC Voltage	12VDC, 2A
Charge Power Supplied.....	5VDC, 1A
Disconnected Indicator.....	Solid Red LED
RTiSync In-Progress Indicator	Flashing Red LED
Connection for iPod.....	Cable with connector overmold
USB	Type A, Future use
RS-232 Control	RJ45
Ethernet	10Base-T/100Base TX, RJ45
Analog Audio Output (Stereo)	Two(2), RCA
SPDIF Digital Audio Output	One(1), RCA
Component Video Output (Y/Pr/Pb).....	Three(3), RCA (480p)
IR Inputs.....	One (1), IR sensor window
.....	One(1), 3.5mm mini-jack
Network Indicator.....	Two(2), LED (Orange/Green)
Decorative Base Lighting	Blue LEDs
Reset switch	One(1), Rear push button
Operating Temperature.....	+41° F to +104° F (+5° C to +40° C)
Operating Humidity.....	20% to 80% RH
Dimensions HxWxD	1.25in(25mm) x 7.5in(150mm) x 7.5in(150mm)
Weight	1lb 6.6oz (642g)

All features and specifications subject to change without notice

* Some iPod models are not supported.

CHAPTER 9 | SERVICE AND SUPPORT

For news about the latest updates, new product information, and new accessories, please visit our web site at:

www.rticorp.com

CONTACTING RTI

For general info, you can contact RTI at:

Tel. (952) 253-3100

Fax (952) 253-3131

info@rticorp.com

RTI TECHNICAL SUPPORT

At RTI, customer service and satisfaction is an utmost priority. If you are encountering any problems or have a question about your RTI product, please contact RTI Technical Support for assistance.

RTI provides technical support by telephone, fax or e-mail. For the highest quality service, please have the following information ready, or provide it in your fax or e-mail.

- Your Name
- Company Name
- Telephone Number
- E-mail Address
- Product model and serial number (if applicable)

If you are having a problem with hardware, please note the equipment in your system, a description of the problem, and any troubleshooting you have already tried.

If you are having a problem with software, please note what version you have installed, the operating system on your PC, a description of the problem, and any troubleshooting you have already tried.

If you are calling about a software or programming question or problem, please be at you computer when you place your call. This will considerably speed up the troubleshooting process.

For technical support or assistance with your RTiDock, software, or accessories, contact RTI at:

(952) 253-3137

support@rticorp.com

www.rticorp.com

For questions regarding service or repair of your RTiDock, contact RTI at:

(952) 253-3136

service@rticorp.com

www.rticorp.com

Please do not return products to RTI without return authorization.

CHAPTER 9 | SERVICE AND SUPPORT

SHIPMENT OF RTiDOCK FOR SERVICE

RTI will pay all labor and material expenses for all repairs covered by this product's warranty. If necessary repairs are not covered by warranty, or if a unit is examined which is not in need of repair, you may be charged for the repairs or examination.

If it is necessary to ship the RTiDock for service:

- Please pack it securely (we suggest that it be insured).
- Do not include accessories such as power cords or manuals unless instructed to do so.

You must pay any shipping charges incurred in getting your RTiDock to RTI. RTI will pay reasonable return shipping charges via a carrier of our choice to any destination within the United States if the repairs are covered under warranty.

A copy of the original dated sales receipt must be provided whenever warranty service is required. You will need this receipt to establish the date of purchase.

INDEX

Browsing and Listening to Music	30
Contents	7
Description	12
RTiDock Top/Front Panel.....	13
RTiDock Rear Panel.....	13
Disclaimer	6
Features.....	12
Federal Communications Commission Notice	3
Installation	16
Cables and Control	16
Connections Diagrams	16
Control (IR/RS-232)	18
Power	17
Important Notes.....	9
Limited Warranty	6
Product Contents.....	10
RTiDock Parts and Functions	14
RTiSync Application.....	35
Safety Suggestions	4
Service and Support	47
Settings Configuration.....	23
Specifications.....	45
Troubleshooting.....	42
Welcome	9

It's Under Control®



Remote Technologies Incorporated
5775 12th Avenue East, Suite 180
Shakopee, MN 55379
Tel: 952-253-3100
Fax: 952-253-3131
www.rticorp.com