



Color Touchscreen **TS3** **Installation Manual**



SAFETY INSTRUCTIONS



WARNING: TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE

CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE THE COVER. NO USER-SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.

The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of uninsulated dangerous voltage within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.

The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

Safety Instructions

1. Read Instructions - All the safety and operating instructions should be read before the appliance is operated.
2. Retain Instructions - The safety and operating instructions should be retained for future reference.
3. Heed Warnings - All warnings on the appliance in the operating instructions should be followed.
4. Follow Instructions - All operating and user instructions should be followed.
5. Water and Moisture - The appliance should not be used near water; for example, near a bathtub, washbowl, kitchen sink, laundry tub, in a wet basement, or near a swimming pool. The apparatus shall not be exposed to dripping or splashing liquids and no objects filled with liquids, such as vases, shall be placed on the apparatus.

6. Wall Mounting - The appliance should be mounted to a wall only as recommended by the manufacturer.
7. Ventilation - The appliance should be situated so that its location or position does not interfere with its proper ventilation. For example, the appliance should not be situated on a bed, sofa, rug, or similar surface that may block the ventilation openings, or placed in a built-in installation, such as a bookcase or cabinet that may impede the flow of air through the ventilation openings.
8. Heat - The appliance should be situated away from heat sources such as radiators, heat registers, stoves, or other appliances (including amplifiers) that produce heat.
9. Power Sources - The appliance should be connected to a power supply only of the type described in the operating instructions or as marked on the appliance.
10. Grounding or Polarization - Precaution should be taken so that the grounding or polarization means of an appliance is not defeated.
11. Power Cord Protection - Power supply cords should be routed so that they are not likely to be walked on or pinched by items placed upon or against them, paying particular attention to cords at plugs, receptacles, and the point where they exit from the appliance.
12. Non-Use Periods - The power cord of the appliance should be unplugged from the outlet when left unused for a long period of time. To remove all power (supply mains) from the appliance, remove the plug from the wall outlet.
13. Object and Liquid Entry - Care should be taken

so that objects do not fall and liquids are not spilled into the enclosure through the openings.

14. Cleaning - The appliance should be cleaned only as recommended by the manufacturer.
15. Damage Requiring Service - The appliance should be serviced by qualified service personnel when: A) The power supply cord or the plug has been damaged; or B) Objects have fallen, liquid has been spilled into the appliance.
16. Servicing - The user should not attempt to service the appliance beyond that described in the operating instructions. All other servicing should be referred to qualified service personnel.

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 of 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, or consult the dealer or an experienced radio/TV technician for help.

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.



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PRODUCT OVERVIEW

The TS3 Touchscreen is a full-featured color touchscreen that provides a powerful user interface for Russound's C-Series multiroom audio systems. The user can easily access, control and enjoy music from anywhere in the home. Housed in an attractive bezel, the TS3 features beautifully rendered screens and elegantly simple displays.

The TS3 offers touch-sensitive screen templates for defined source controls, with audible feedback and a detailed display of source functions. It also features responsive hard buttons for most-often used commands and a front IR receiver that can be disabled.

The TS3 is designed for use with C-Series controllers and works with Russound sources, including the DMS-3.1 Media Streamer, SMS3 Smart Media Server, iBridge® Dock and Bay, ST1 and ST2 tuners, and legacy (IR controlled) sources. The touchscreen displays valuable information such as Channel, Artist, Song Title, Genre and more, all in real time. It supports custom names for presets, banks, themes and favorites for a truly personal touch. The TS3 makes a great addition to an installed RNET system, as it can be installed into an existing double-gang junction box.

Most of the controller, zone audio and source setup functions are performed through SCS-C5 programming software; however, a few steps are completed through the TS3 menus such as alarms, setting time and date, keypad brightness, and adjusting room audio properties.

Now Playing Screen

The main or “home” screen is the starting point for using the TS3. The touchscreen displays the currently selected source info. and system setup configured for the C-Series system.

Source Screens

Each source device is controlled through screens designed specifically for that source. Control choices and content menus are located on the source screens, and additional functions may be available through the hard buttons.

Options Screens *(top right corner of screen)*

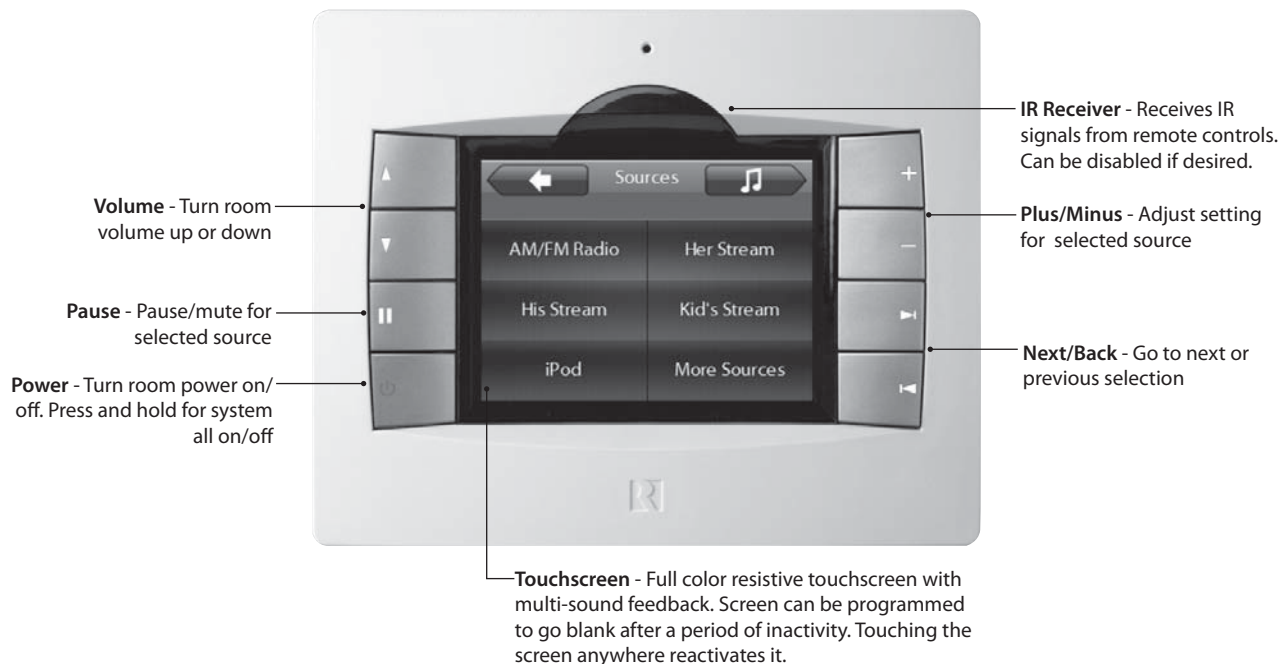
Zone preferences can be set through the options screens. These include sound control, features (DND, Party mode), time and date, alarm, screen setup (brightness and installer setup)

Hard Buttons

There are eight hard buttons that frame the touchscreen, each of which performs a basic function.

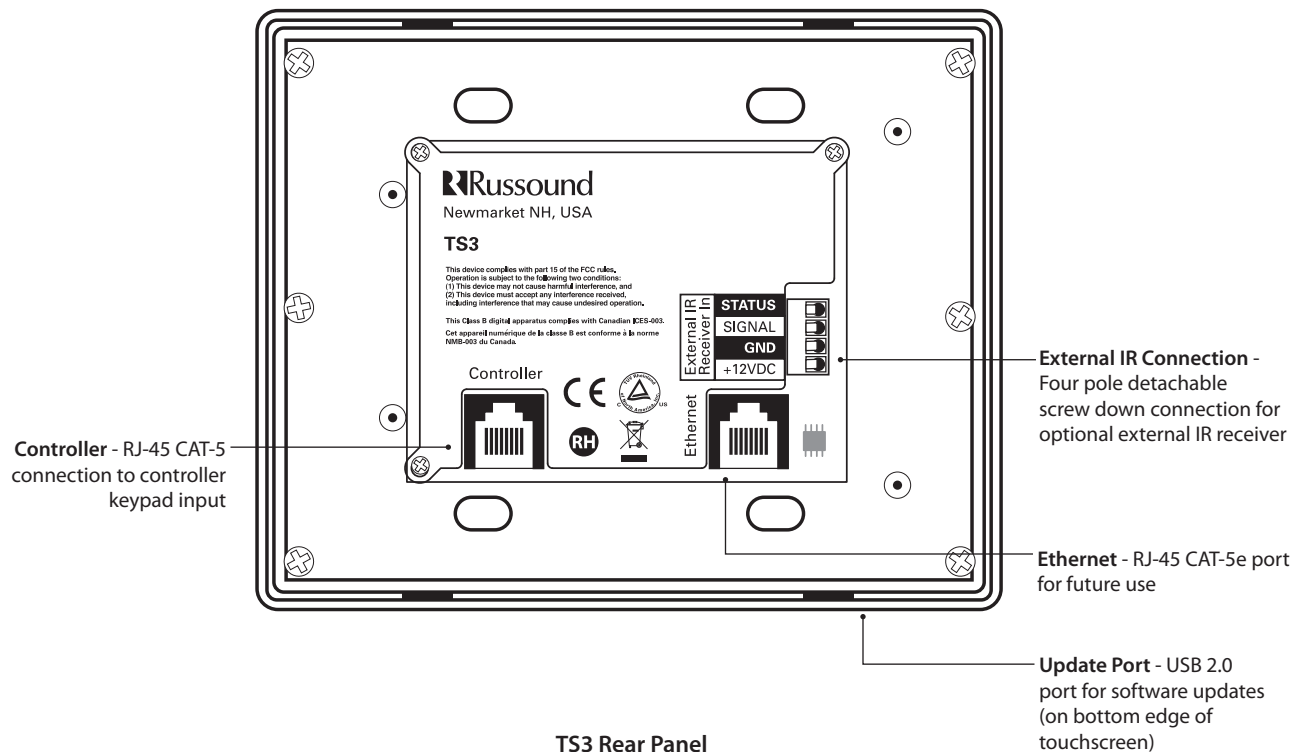
IR Receiver

The IR receiver is hidden behind a tinted window at the top of the bezel and transmits IR signals from a remote control back to the controller to control the sources. This can be disabled if desired.



TS3 Front Panel
Showing Source Selection Screen

BACK PANEL

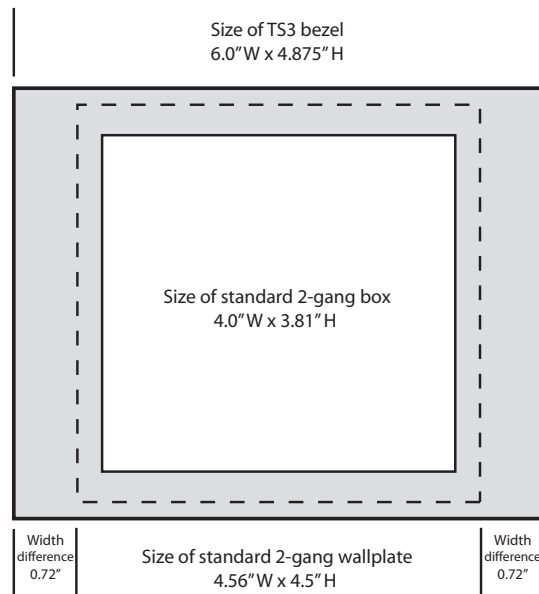


The TS3 is an in-wall touchscreen. For installation, you will need a UL/CSA approved plastic 32ci double-gang electrical box.

Notice the minimum clearance around the electrical box required for the bezel. This is larger than a typical light switch cover, so additional space may be necessary. The diagram at right provides measurements of a standard 2-gang wallplate and of the TS3 bezel.

For best viewing and usage, the TS3 should be mounted at thermostat height, or about 59" from the floor.

DTS-1 Keypad Desktop Stand enables placement on night-stand, counter or desk - sold separately.



TS3 bezel size vs. standard wallplate

TOUCHSCREEN INSTALLATION

After the touchscreen location is selected and the wall box is temporarily in place, route CAT-5e cable to the wall box from the controller. There should be not more than 250 feet of CAT-5e cable between the touchscreen and the controller.

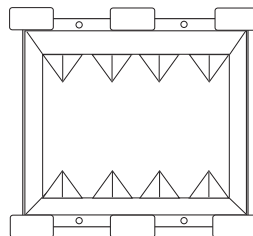
Terminate the CAT-5e cable with an RJ-45 connector, using the T568A wiring standard. Insert the RJ-45 connector into the jack marked "Controller" on the back of the touchscreen.

Mount the touchscreen in the electrical box and attach the cover plate. Repeat the steps until all touchscreens are installed.

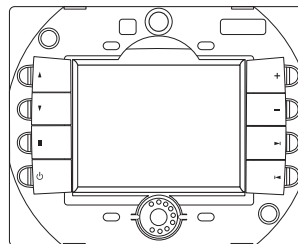
Touchscreen Bezel Removal

To remove the bezel from the front of an installed touchscreen, you will need a flat screwdriver. Place the screwdriver blade in the slot between the bezel and the molding, located below the "R" on the bottom edge of the bezel. Twist the blade until a loud click is heard; this sound is the bezel locking tabs releasing from the frame catch.

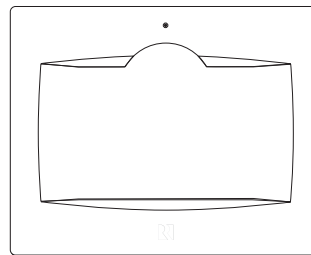
The bezel can now be lifted from the touchscreen. To replace the bezel, center it over the front of the touchscreen and press firmly until the bezel clicks into place.



32ci plastic junction box



TS3 Touchscreen

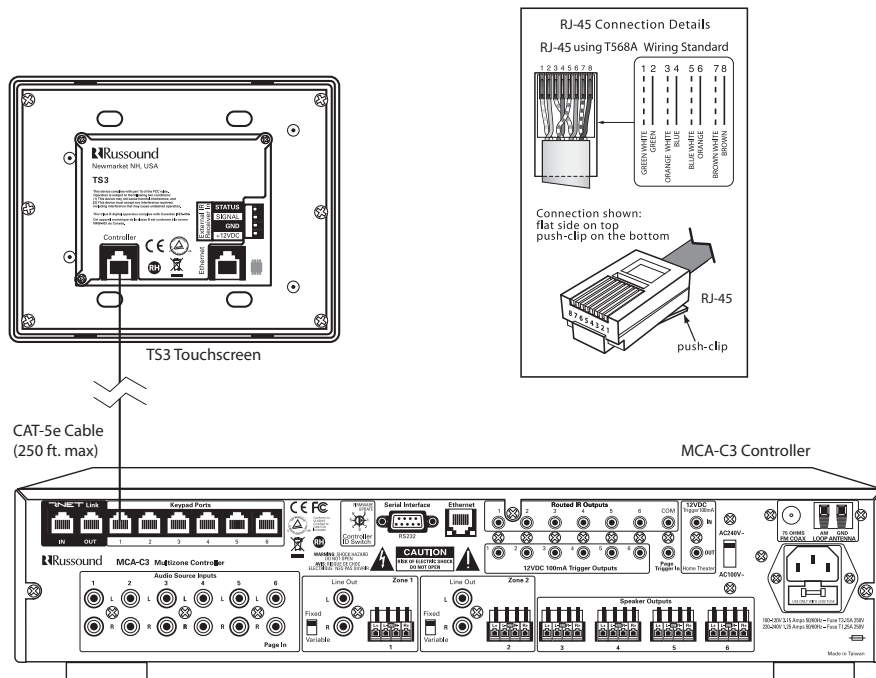


TS3 bezel

CONTROLLER CONNECTIONS

The TS3 Touchscreen is designed for use with the C-Series controllers, and connects to a keypad port on the back of the controller. Connect the touchscreen to the controller keypad

input with CAT-5e cable using an RJ-45 connector with T568A wiring standard. Cable length from the touchscreen back to the controller should be no more than 250 feet.

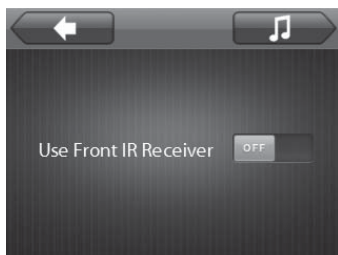


EXTERNAL IR CONNECTION / FRONT IR DISABLE

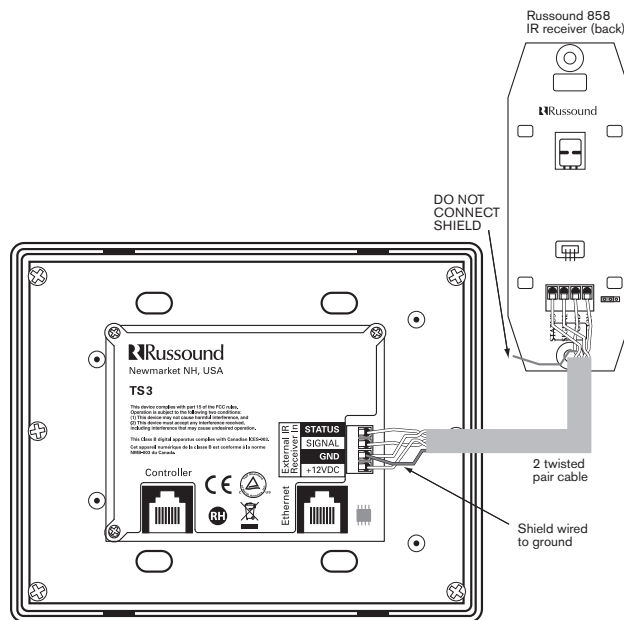
The TS3 Touchscreen has an External IR Receiver In terminal for connecting an external IR Receiver such as the Russound 858, SaphIR 862 Eye, or SaphIR 860 Phantom.

Use 2 twisted pair wire with one pair connecting GND (GROUND) and IR (SIGNAL) and the other pair connecting ST (STATUS) and V+ (+12VDC). Do not connect the shield to the IR receiver terminals.

If using an external IR receiver, you can avoid “double” receipt of IR signals sent from a remote by disabling the keypad’s IR receiver (see screen example below). From the Home screen, select Options. Select Screen Setup, then press and hold Installers Setup until the Installer Setup screen appears. Select Front IR Receiver.



Disable Front IR Receiver

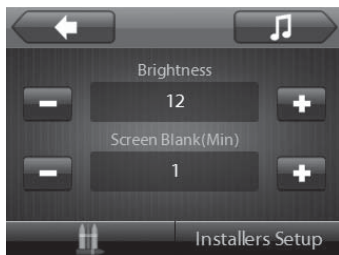
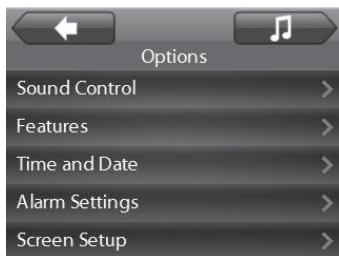


External IR connection

After the touchscreen is installed, connected to the controller and powered on, the Zone and Controller ID numbers must be manually set on the TS3.

From the Main screen, select Options. Select Screen Setup, then press and hold Installers Setup until the "Installer Setup" screen appears. Select Zone and Controller ID.

On this screen, enter the zone number the TS3 is controlling and the ID number of the controller to which it is connected.



OPTIONS - ALARM SETTINGS / TIME AND DATE

Setting Clock and Date

From the Main screen, select Options  (top right corner of screen)

Select Time and Date to edit the clock or calendar field, touch it, use the +/- to move through the numbers. For clock format, select 12 hour (AM/PA) or 24 hour (1200) format.

Setting Alarm

From the Main screen, select Options  (top right corner of screen)

Select Alarm Settings for the following options (on screen 1 of 2):

Alarm on/off - Activates alarm on or off. If an alarm is set a bell icon will appear on the keypad display.

Wake time - Set the time for the alarm to go off.

Choose days - Set the alarm to go off on weekdays, all days or just once.

Select More to set the following options:

Alarm Volume - Set the volume of the alarm.

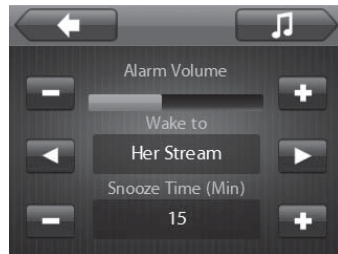
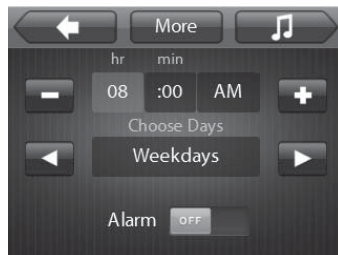
Wake to - Choose the music source or Favorite.

Set snooze - Choose the interval (1 to 30 minutes) before the alarm goes off again.

Alarm is active - The touchscreen displays a screen showing a ringing alarm clock.

To Turn off active alarm - Press the Alarm Off button on the TS3 or press the Power button on the SRC-C5 remote control.

To Snooze - Press the snooze button on TS3, or pause button on the SRC-C5 remote control.



The options screen also allows for customizing the room audio properties.

Sound Control

The sound control screen brings up a variety of room setting options.

Bass- adjust the bass level for the room

Treble - adjust the treble for the room

Balance - adjust the left to right speaker balance for the room

Loudness - Turn loudness (more bass, fuller sound at low volumes) on or off for the room. A check mark appears to indicate loudness activation.

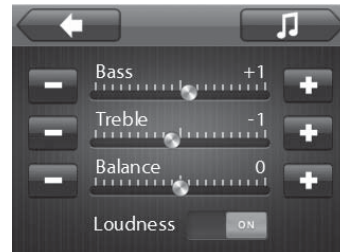
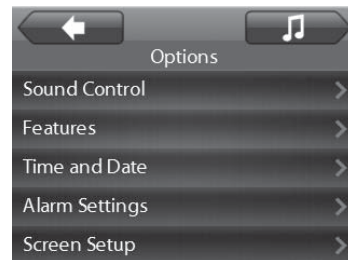
Features

The features screen brings up a variety of room setting options.

Turn On Volume - sets the room's default volume when the room is turned on.

Party and Master - The keypad that shows Master has started a "party" and keypads that show Party are "attending." All rooms are listening to the same music, and only the Master can change the music. Volume can be adjusted independently but will be overridden by the Master.

Do Not Disturb - Someone in another room has chosen a source and locked out anyone else from controlling it. That room also won't be disturbed by paging.



SCREEN SETUP / INSTALLER SETUP FUNCTIONS

The Screen Setup screen allows for adjustment of the touchscreen's brightness and time to blank. It is also the gateway to the Background image and Installers Setup screens.

Brightness - Adjust the touchscreen brightness

Screen Blank (min) - The screen blank darkens the screen after a period of inactivity. A touch to the screen reactivates it. Adjust the time (from 0 to 60 minutes) it takes for the touchscreen to activate its screen-saving darkening feature after the last use. A value of 0 (zero) disables the screen blank feature.

"Background Selection" Icon  (status bar - bottom of screen)

This icon allows selection of the background graphic.



Installers Setup

This series of screens provides access to installer-only functions. Press and hold Installers Setup to enter.

About

The About screen displays the touchscreen's firmware version, and IP and MAC addresses when applicable. It also shows the IP and MAC addresses of the controller to which the TS3 is connected.

Firmware Update

When firmware updates are issued for the TS3, they will be available for download from the Support Center. The firmware files are loaded onto the touchscreen from a USB device using the USB port on the bottom edge of the touchscreen.



Refer to Russound's online Support Center for detailed instructions.

Languages

Provides a list of available options for the display language. Not all screen data will be translated into the selected language.

Diagnostics

The diagnostics screens provide simple testing methods of the touchscreen's performance.

Hard Button Test - This screen is a tool for testing the hard buttons on the sides of the touchscreen. As each button is pressed, the button's name is spoken by the keypad, e.g., volume up, volume down, pause, etc.

Touch Test - This screen is a tool for checking the touch sensitivity and calibration of the keypad. As each letter/number is pressed, the touchscreen "speaks" the letter/number.

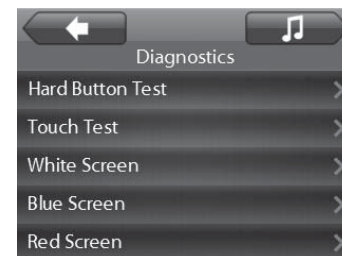
White, Blue and Red Screen - Turns the entire screen white, blue or red. This allows you to see any bad pixels. Returns to the Diagnostics screen if you touch the display.

Factory Init

This option allows a factory initialization to be performed on the touchscreen. This sets the unit back to its factory settings.



Diagnostics and Factory Init are accessed by selecting the page down button on the right side of Installer Setup screen.



SETTING FAVORITES

Favorites ★ (top left corner of screen)

The TS3 supports 32 system favorites. These choices can be selected at any time to recall a source selection, mode, channel, station, etc.

Saving a Favorite

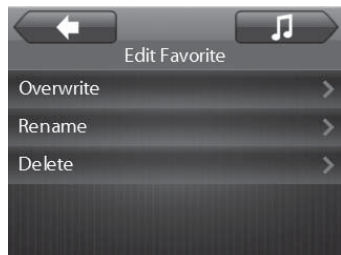
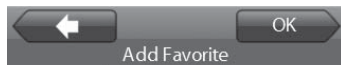
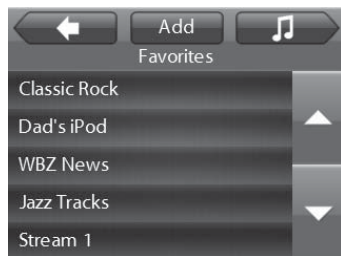
Favorites are saved from the Favorites screen. Before storing a favorite, select a source to be stored, choose the desired station, channel, etc.

To add a favorite, press the 'add' button. A keyboard screen appears for typing in the desired name for the Favorite. To type numbers, press the '123+/_-' button. When the name is complete, save the Favorite by pressing Enter.

To overwrite, rename or delete a Favorite, press and hold the Favorite in the list on the Favorites screen. The Edit Favorite screen appears. Pressing Overwrite or Rename brings up the keyboard screen. Press Delete to delete the Favorite from the list.

Playing a Favorite

To play a favorite, press the name of the Favorite in the list on the Favorites screen. This selects the source, channel, station, etc. of the saved favorite.



Although there are different screens for different sources, they do share some common features.

Main Display

All source screens contain a main display window which shows the current source name, system messages and display messages from some sources.

Source Selection

Press the current source name to access the system source list.

Volume Bar

This thin blue rectangle runs along the left side of the main display. The size of the bar indicates the current volume for the room, expanding from bottom to top.



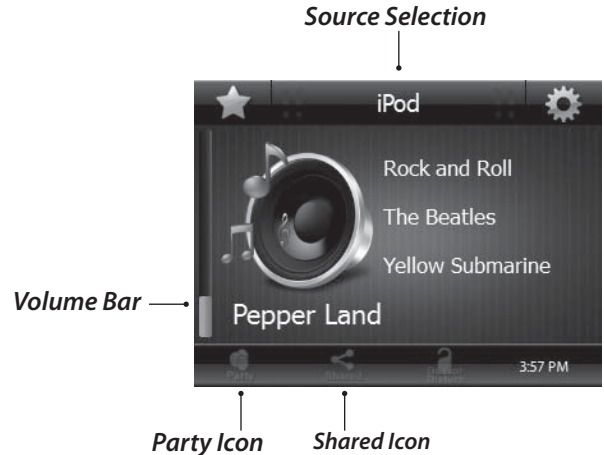
"Party" Icon (status bar - bottom of screen)

The small Party icon becomes highlighted on the right side of the main display when the system is in the Party mode and it is active in the current room.



"Shared" Icon (status bar - bottom of screen)

The small graphic "S" becomes highlighted on the right side of the main display when the selected source is also selected in one or more other rooms.



SOURCE SCREENS - COMMON FEATURES



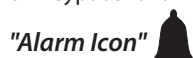
"Master" Icon (status bar - bottom of screen)

When a zone initiates a party, the Master icon is displayed. The Party Master controls zones in the system that are on and have party mode enabled.



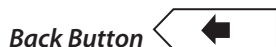
"DND" Icon (status bar - bottom of screen)

The small graphic "DND" becomes highlighted when the current zone and source is in the Do Not Disturb mode. When in this mode, other rooms are prevented from changing the state of the source (change channels, etc.). The DND icon also appears on keypads for all other rooms that select this source.



"Alarm Icon" (status bar - bottom of screen)

The small clock graphic will indicate that the zone's alarm is actively set.



Back Button (top left corner of screen)

This button returns to the previously displayed screen



Now Playing Button (top right corner of screen)

Press the music note button in the top right corner.

Page Indicators

If more than one page of information is available the page indicator icons will be displayed to the right of the list allowing you to page up or down.



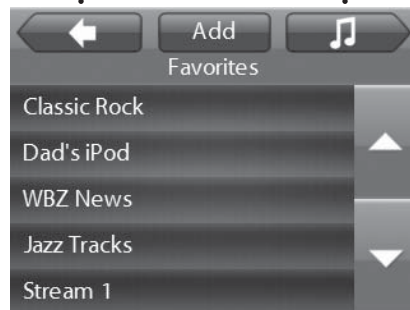
Master Icon

DND Icon

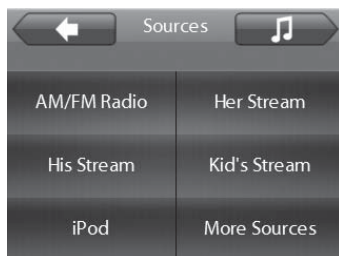
Alarm Icon

Back Button

Now Playing Button



Page Indicators



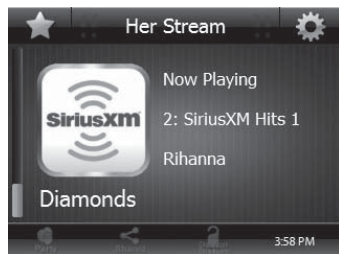
Sources selection menu



iBridge Dock



RNET AM/FM Tuner



DMS-3.1 Streamer



IR controlled legacy device

Press the source Now Playing screen to access source specific options.

TS3 Touchscreen

Dimensions: Inside Standard Double-gang J-Box
3.675"W x 1.150"D x 2.850"H
(9.3 x 2.9 x 7.2 cm)
Front Panel
5.750"W x 1.0"D x 4.650"H
(14.6 x 2.5 x 11.8 cm)
Fits UL/CSA Approved Double-gang
Junction Box

Weight: 1 lb. 2.5 oz. (524 g)

Power requirement: 200mA @ 12VDC Max

External IR connection: 100mA @ 12VDC Max

CAT-5e connection: RJ-45 (T568A standard)

Software update port: USB 2.0

Operating temperature range: 32-86° F (0-30° C) max (indoor use only)

Warranty

The Russound TS3 is fully guaranteed against all defects in materials and workmanship for two (2) years from the date of purchase. During this period, Russound will replace any defective parts and correct any defect in workmanship without charge for either parts or labor.

For this warranty to apply, the unit must be installed and used according to its written instructions. If service is necessary, it must be performed by Russound. The unit must be returned to Russound at the owner's expense and with prior written permission. Accidental damage and shipping damage are not considered defects, nor is damage resulting from abuse or from servicing by an agency or person not specifically authorized in writing by Russound.

This Warranty does not cover:

- Damage caused by abuse, accident, misuse, negligence, or improper

installation or operation

- Power surges and lightning strikes
- Normal wear and maintenance
- Products that have been altered or modified
- Any product whose identifying number, decal, serial number, etc. has been altered, defaced or removed.

Russound sells products only through authorized Dealers and Distributors to ensure that customers obtain proper support and service. Any Russound product purchased from an unauthorized dealer or other source, including retailers, mail order sellers and online sellers will not be honored or serviced under existing Russound warranty policy. Any sale of products by an unauthorized source or other manner not authorized by Russound shall void the warranty on the applicable product.

Damage to or destruction of components due to application of excessive power voids the warranty on those parts. In these cases, repairs will be made on the basis of the retail value of the parts and labor. To return for repairs, the unit must be shipped to Russound at the owner's expense, along with a note explaining the nature of service required. Be sure to pack the unit in a corrugated container with at least three (3) inches of resilient material to protect the unit from damage in transit.

Before returning a unit for repair, call Russound at (603) 659-5170 for a Return Authorization number. Write this number on the shipping label and ship to:

Russound

ATTN: Service

5 Forbes Road

Newmarket, NH 03857

Due to continual efforts to improve product quality as new technology and techniques become available, Russound/FMP, Inc. reserves the right to revise system specifications without notice.



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Russound, Inc.
5 Forbes Road, Newmarket, NH 03857
tel 603.659.5170 • fax 603.659.5388
email: tech@russound.com www.russound.com
28-1358 01/29/13, Rev. 2