

SPHERE™

E-Series

User Manual

8.4" Color Touchscreen

TSV-E5

Premier products for Russound
Sphere™ Certified Professionals

R Russound®

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.

POWER CORD NOTICE FOR INTERNATIONAL OPERATION: For 240V, 50Hz operation please select the power cord for your area. Select the plug for your area at one end and a IEC320 connector at the other. It is not necessary to make any other changes. If you have any questions, please call Russound at 1.800.638.8055 or 603.659.5170.

Safety Instructions:

For your safety, please read and follow these precautions before installing or using this product:

1. Read instructions. Read and understand all the applicable instructions before installing or operating the product.
2. Retain instructions. Keep this manual in a convenient place for reference.
3. Heed warnings. Be aware and heed all warnings on the product and in the instructions.
4. Follow instructions. Install and use this product only as described in the instructions. Don't try to use this product in ways it wasn't designed for.
5. Use indoors only. Don't expose this product to the weather or harsh environmental conditions such as continuous sunlight, excessive humidity, or rain.

6. Keep product dry. Don't use the product near water; for example, near a bathtub, washbowl, kitchen sink, laundry tub, in a wet basement, or near a swimming pool. Also, do not handle the product when your hands are wet or damp.
7. Mounting options. This product should be mounted to a wall, desk stand, or VESA compliant mount as recommended by the manufacturer.
8. Avoid heat. Locate the product away from heat sources such as radiators, heat registers, stoves or other appliances (including amplifiers) that produce heat.
9. Maintain ventilation. Locate the product so as not to interfere with its proper ventilation. Don't use the product on a bed, sofa, rug, or similar surface that may block the ventilation openings, or in a bookcase or cabinet that may impede the flow of air through the ventilation openings. Spacing of 1-2 inches above and below the unit should be sufficient.
10. Use the right power source. Don't connect the product directly to electrical line voltage. Use only the power adapter provided with the product, described in the operating instructions, or as marked on the product.
11. Ground product properly. Make sure the product's means of grounding or polarization is not defeated.
12. Cable protection. Cables 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 wall ports and the point where they exit from the appliance.
13. 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.
14. Keep product clean. From time to time, wipe off the product with a clean soft cloth. Don't use abrasive materials, thinners, alcohol or other chemical solvents or materials. Spray the cleaner on the cloth, not directly on the unit.

15. Avoid spills and foreign objects. Make sure liquids and objects don't get into the product enclosure through any openings, or around the buttons on the face of the unit.

16. Get professional service. Have the product serviced only by qualified service personnel when:

- The cables or the plug has been damaged
- Liquids have spilled or objects have fallen into the product
- The product doesn't appear to operate normally
- The product is damaged

Don't attempt to service the product yourself. Doing so will void the warranty.

Precautions:

- Power – WARNING: BEFORE TURNING ON THE POWER FOR THE FIRST TIME, READ THE FOLLOWING SECTION CAREFULLY.
- Do Not Touch The Unit With Wet Hands – Do not handle the unit or power cord when your hands are wet or damp. If water or any other liquid enters the unit's cabinet, take it to a qualified service person for inspection.
- Location of Unit – Place the unit in a well-ventilated location. If ventilation is blocked, the unit may overheat and malfunction. Do not expose the unit to direct sun light or heating units as the unit internal components temperature may rise and shorten the life of the components. Avoid damp and dusty places.
- Care – The TSV-E5 screen area is a touch sensitive LCD (liquid crystal display) screen. It is important to take proper care of the screen to maintain the best image contrast and color viewing for the product's life. Do not use sharp objects to touch the screen. To clean the touchscreen, periodically wipe off the front panel with a soft, dry cloth. Do not use rough material, thinners, alcohol or other chemical solvents or cloths since this may damage the finish.

If you have any questions, call Russound at 1.866.888.7466 or 603.659.5170.



Conforms to
UL60065
Certified to
CAN/CSA
IEC60065

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PRODUCT OVERVIEW

The TSV-E5 is a full-featured color touchscreen for Russound E-Series multiroom systems. It includes a comprehensive suite of features with enhanced source control functions and display options. Mounting options allow the TSV-E5 to be conveniently located virtually anywhere.

Intended for use as a integrated control interface for the multiroom system, the TSV-E5 allows complete control of all sources from one location. Its display is large enough to provide easy access to all system features, yet small enough to fit most multiroom applications.

For maximum convenience, TSV-E5 touchscreens can be used anywhere system keypads would be. The TSV-E5 connects with a single CAT-5e cable to provide enhanced information and zone control.

The touchscreen will also support IR commands sent with the HHR-E5 and RFR-E5 (in local IR mode) remote controls.

The TSV-E5 offers the following features:

- Large-format 8.4" (21.3 cm) color display
- Alarm Clock and Sleep Timer
- Displays digital video feeds from IP based cameras
- Shows images from assigned IP camera when doorbell is pressed
- Connection via single CAT-5e cable
- Remote IR receiver input
- In conjunction with the SMS3 Media Server, you can add, change, or delete selections from pre-existing themes, as well as change the ratings to play songs more or less often
- A number of web widgets to show news, weather, and sports

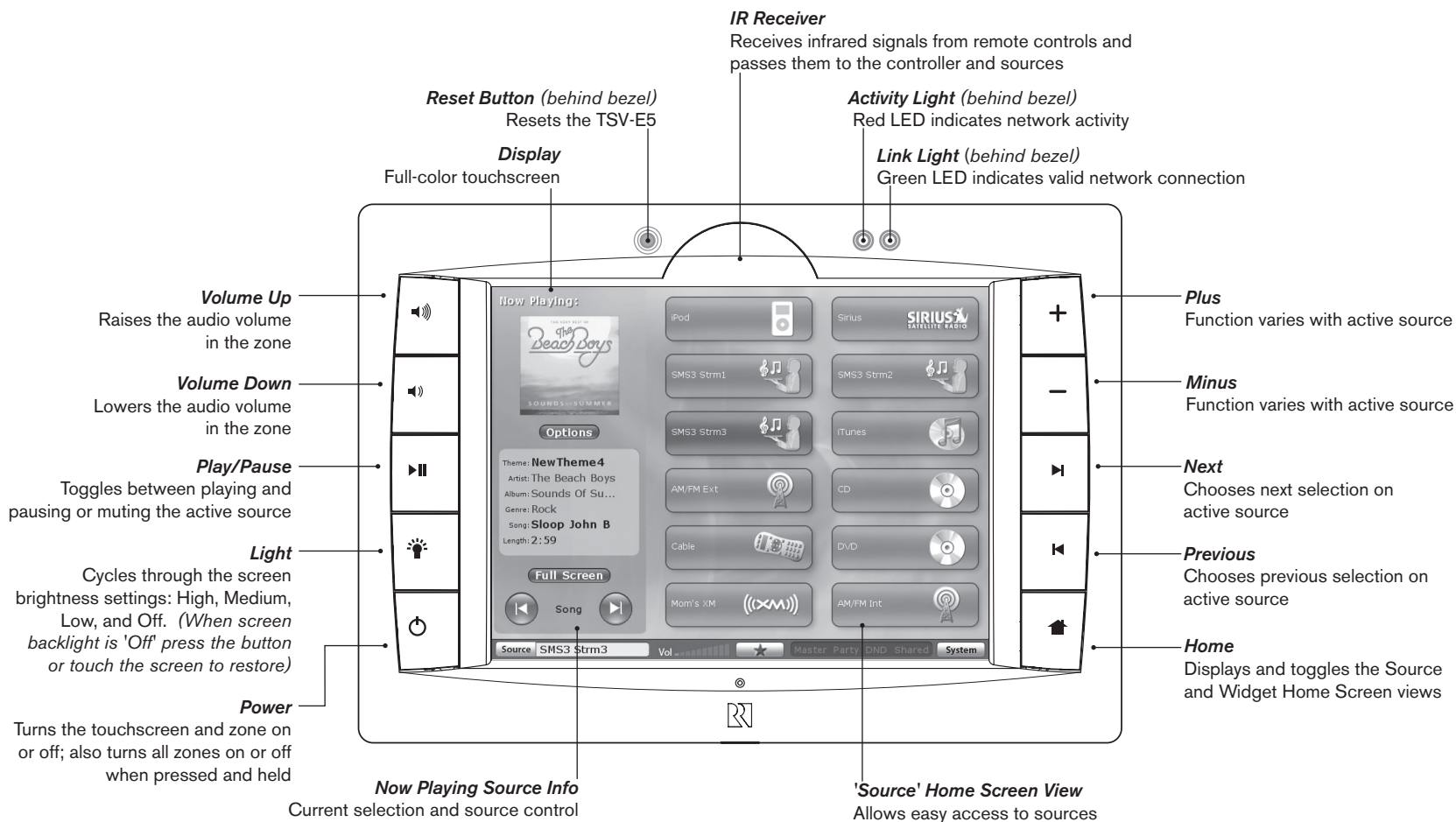
Definitions

Widget: A widget is a means of having information or controls in a convenient one touch tool. Common examples of widgets include weather guides, news feeds, sports score trackers, clocks, and system controls, as well as a means of monitoring your IP cameras. The TSV-E5 has a select group of widgets available to be configured on the home screen.

Care

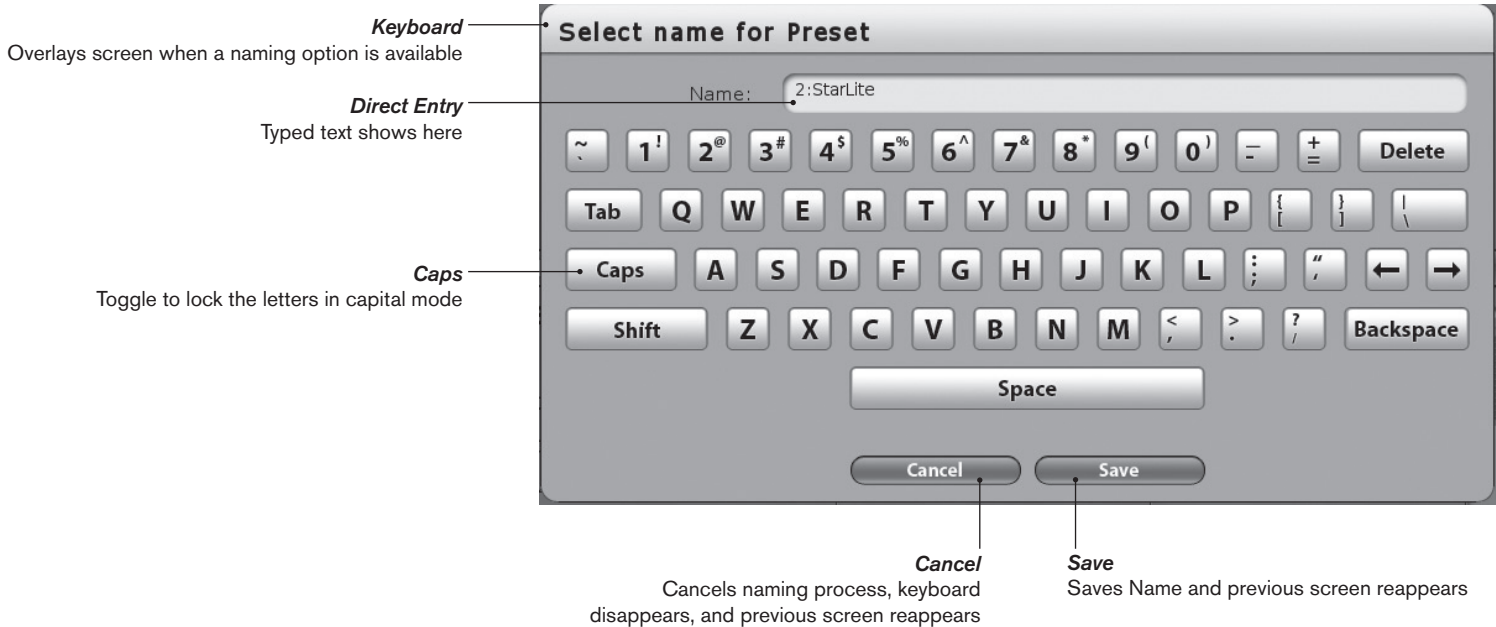
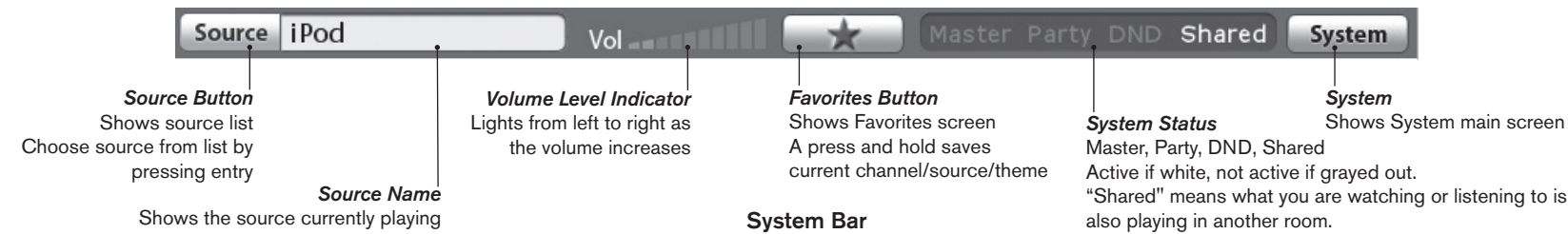
It is important to take proper care of the screen to maintain the best image contrast and color viewing for the product's life. Do not use sharp objects on the touchscreen. Finger presses or a soft stylus is recommended. Keep the face of the touchscreen clean. From time to time, wipe the face with a clean soft cloth. Don't use abrasive materials, thinners, alcohol, or other chemical solvents or materials. Common glass and non-abrasive household cleaners may be used. Spray the cleaner on the cloth, not directly on the unit.

The back of the unit will be warm to the touch. This is normal and does not indicate any problem.



Front Panel Features / Functions

Note: The screen will time out (go black) after a period of non-use (1 hour). Touch the screen or press the 'Light' button to restore.



Naming Keyboard
(Overlays screen when naming options are available)

Power

ON

Press the 'power' button. The zone will turn on and return to the last source playing when the zone was powered off. Source control and information will be shown on the left third of the screen and the remaining area will show the home screen.

ALL ON can be achieved by first turning the zone on, and then a press and hold of the 'power' button until all enabled zones respond.

OFF

Press the 'power' button. The touchscreen and zone will turn off. If there is another keypad or zone active on the system the power button will remain lit.

ALL OFF can be achieved by first turning the zone off, and then a press and hold of the 'power' button until all zones respond.

Operation

Use your finger to touch any button or off-color text links to change sources or view information. There is a slight color change on the button when the touchscreen recognizes a touch. A soft stylus may also be used.

A press of the 'Home' hard button (lower right) will toggle the source screen to the widget screen. In both options the left third of the screen will show the 'Now Playing' source with applicable song information and/or control.

Playing Music

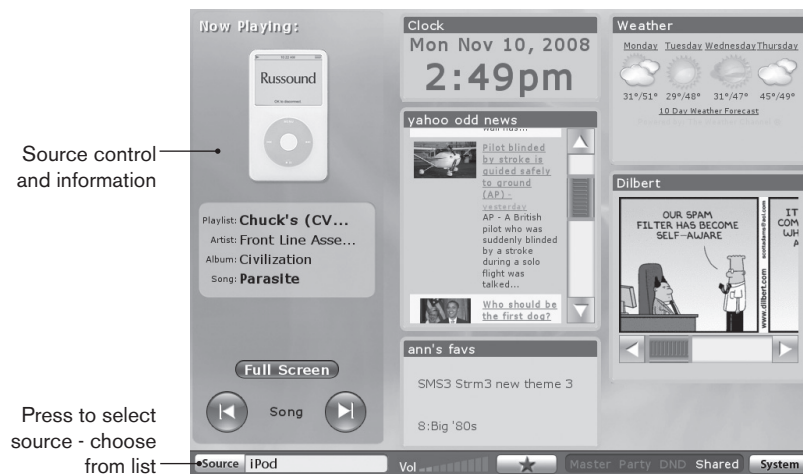
Choose the source by pressing either a source button on the Home Page (Source view) or the 'Source' button (lower left) and then the desired source from the list. The source will start playing and the display on the left third of the screen will change to reflect the now playing selection. Saved favorites (preset channels, themes, and sources) can also be played by pressing the 'Star' button on the lower system bar and choosing the appropriate item.

Source views for the RNET sources can be expanded by pressing the 'Full Screen' button. This will allow searches for additional music, control of playlists, tuning, accessing the channel guides, etc.



Press to select source - choose from list

Source View Home Screen



Source control and information

Press to select source - choose from list

Widget View Home Screen

SOURCE CONTROL - RNET TUNER CONTROL

Operation - RNET Tuners (AM/FM, SIRIUS, XM)

Choose a tuner. Press the 'Full Screen' button from the home screen to view the Radio page. Press the tuning buttons or enter the channel/station number by pressing the number keys.

Save Presets

Press and hold a preset listing in one of the banks. The keyboard will appear to rename the listing if desired. Make any changes and press 'Save' and you will be returned to the radio page. If you choose a previously assigned one it will be replaced with the current selection.

Edit Presets

Press the preset to change to that channel, then press and hold the preset name. Make changes with the keyboard and press 'Save'. Bank names can also be edited by a press and hold of the name.

Channel Guide (SIRIUS or XM tuners)

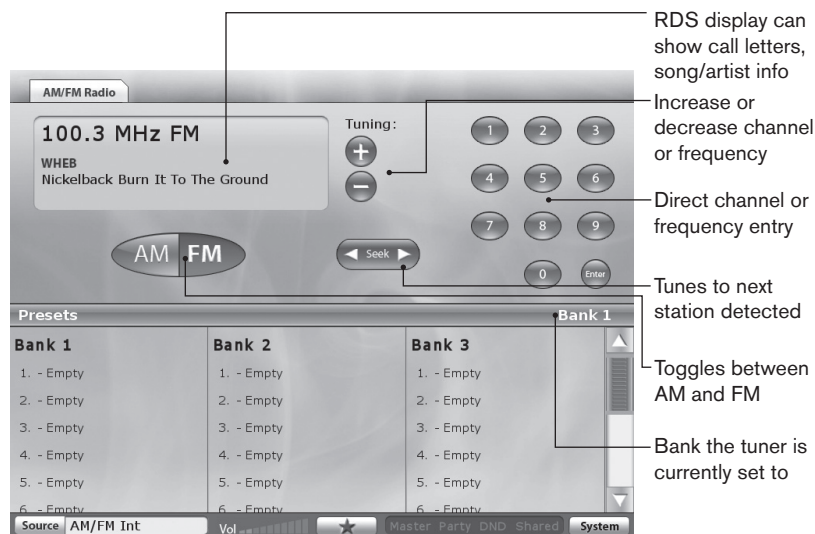
Press the channel guide to show the channel list. View all of the stations or sort by category. Pressing one of the channel listings will change the channel and return you to the radio page.

SIRIUS Channel Lock:

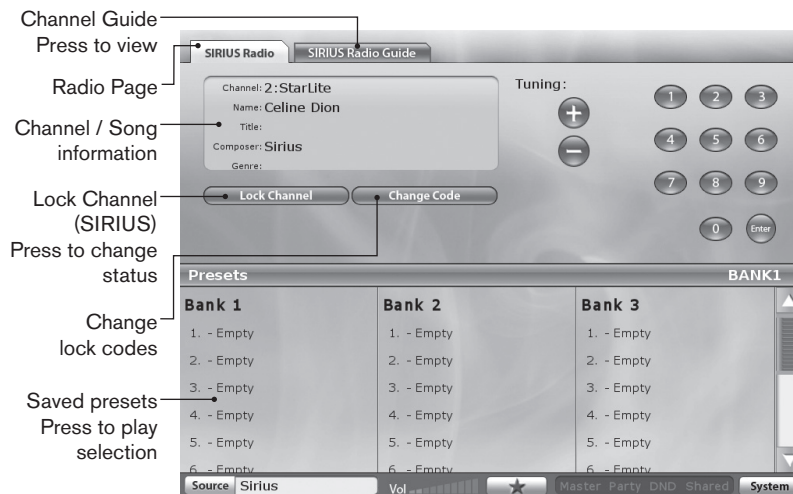
The 'Lock Channel' button gives you the option to lock the channel. Pressing the button will prompt for a 4 digit password to restrict access. The default code is 0000. If it is locked the user will be prompted for a numerical password to temporarily unlock it. If you want to change the password, press the 'Change Code' button. You are prompted for the old code and then for a new one. Navigating away from a locked channel restores the lock and again requires a password to listen to it. To permanently unlock the channel, press the 'Unlock Channel' button and enter the code.

Hard Button Controls (right side) with the RNET tuners selected

- +** Selects the next higher channel / frequency step
- Selects the next lower channel / frequency step
- ▶** Selects the next preset in the current bank
- ◀** Selects the previous preset in the current bank
- 🏠** Returns user to the Home Screen
- ◀▶** A press and hold changes banks to the next or previous one.



AM/FM Main screen

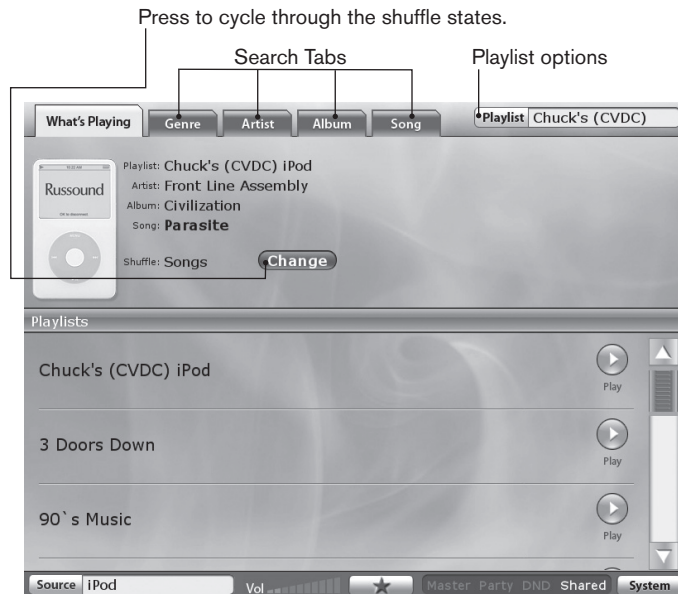


SIRIUS Tuner full screen

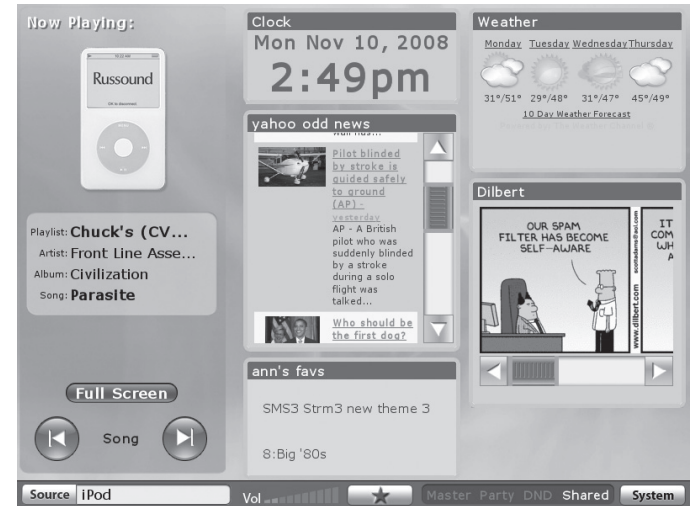
Basic Operation - iBridge Dock / iBridge Bay

Choose a source. Press the 'Full Screen' button to view search options. Search for and select music by genre, album, artist, and song. Choose a tab and the appropriate list will show. Press the 'Options' button for additional links.

Text in blue denotes links and paths. Pressing that text will take you to that particular link.



What's playing screen



Now playing screen (Widget view)

Hard Button Controls (right side) - with the iPod or iTunes selected

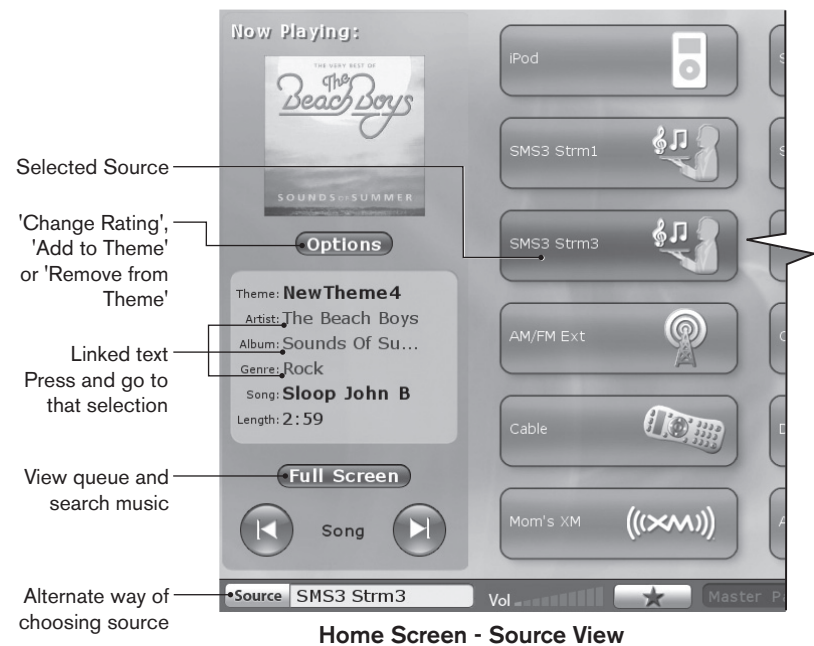
- + Selects the next playlist
- Selects the previous playlist
- ▶ Selects the next selection in the playlist
- ◀ Selects the previous selection in the playlist
- ⬅ Returns user to the Home Screen
- ⏮ A press and hold will search forward/reverse in the current song

Basic Operation - SMS3 Media Server

Choose one of the streams on the media server. Press the 'Options' button on the home page to add or remove the song from a theme, or change the song rating by playing it more or less often.

Hard Button Controls (right side) with the Media Server selected

- + Selects the next theme
- Selects the previous theme
- ▶ Selects the next selection in the queue
- ◀ One press restarts the current song.
Two presses returns to the previous song in the theme.
- 🏠 Returns user to the Home Screen



What's Playing

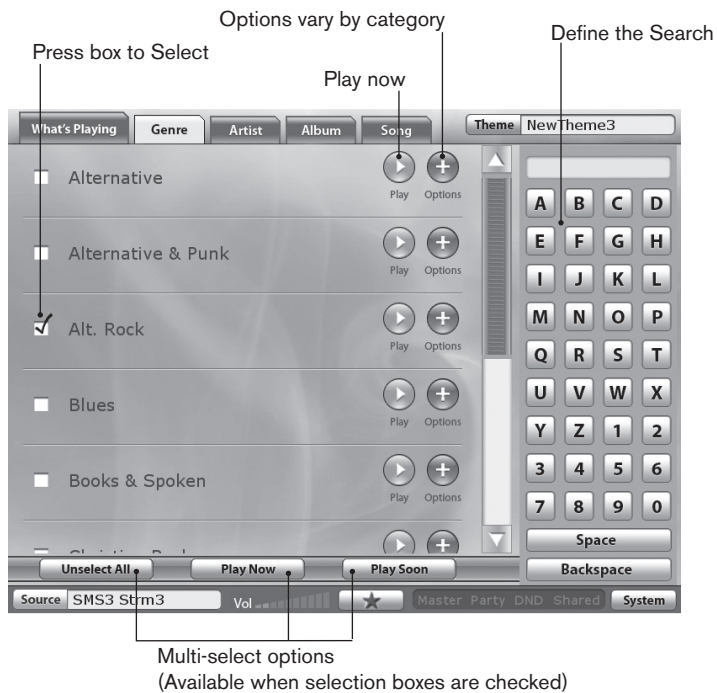
Pressing the 'Full Screen' button will take you to the 'What's Playing' screen and show the queue. Buttons give you the options to play the song immediately, add it to a theme, or delete it from the queue. Pressing the theme button (upper right) will show a list of the available themes. Pressing any theme will change the music playing to that theme.



Search music

Search by Genre, Artist, Album or Song. Press one of the category tabs and sort the choices by pressing the letter keys on the keyboard to narrow the search. Touch the 'check box' to choose your selections. Check multiple boxes and then press one of the bottom buttons to have the selections play now, or play soon. The 'Options' button offers other search possibilities and will allow you to add the checked selection to previously created themes.

Blue text is a link to the item or path back to the previous selection. Pressing the link will take you to that selection. On the Album page, clicking on the album image shows the album and track list.



Search screen - Genre



Album with track list

Working with Themes

- You can add music by genre, album, song, or artist to any of the pre-existing themes. New themes are created via the web/TV interface for the SMS3.
- From the "What's Playing" screen, you can add the current selection to any pre-existing theme. Press the 'Options' button and pick the theme from the drop down box.
- You can add any queued selections to a pre-existing theme via the 'Options' button. (Multi-select has 'Add to Theme' choice.)
- Remove the currently playing song or a queued song from the current theme via the 'Options' button.

SOURCE CONTROL - LEGACY SOURCES

Legacy (non-Russound) Source Control

Each source type when selected will have a set of buttons providing basic source control for that device. Some of the source types are shown for reference purposes only. There is no full screen option.



DVD Source Screen



Cable Source Screen

System Tools and Controls

All system controls and settings are accessible from the 'System' button on the lower right corner of the screen.



System Screen

Press to view system screen

Sound Controls

Treble and Bass—Touch '-' to decrease or '+' to increase the level.

Balance—Touch '-' to shift the balance to the left speaker or '+' to shift it to the right speaker.

Loudness—Touch 'On' for loudness compensation or 'Off' to turn it off.

Turn On Volume—Touch '-' to decrease or '+' to increase the volume heard when the zone is turned on.



Modes

Touch the appropriate mode button to set the mode. If the button appears grayed out, the function is not available for this zone. The state will be visible on the system bar at the bottom of the screen.



Master—The Master has started a party and other zones displaying 'Party' are attending. All enabled and participating zones listen to the same music, and only the Master can change the music. Master and Party mode participation must have been enabled for this zone.

To move master control to another participating zone, press 'Master' from that TSV-E5.

To discontinue Party mode, press 'Party' from the master zone and all participating zones will shut off.

Party—With no party in progress, press 'Party' to place the system in Party mode and set this TSV-E5 as the Master. All zones that have party mode enabled, and not set as DND will join the party.

If your zone is participating in the party, pressing 'Party' returns this zone to independent control and will allow you to choose to a different source.

DND—Stands for Do Not Disturb. Pressing 'DND' puts this zone in Do Not Disturb mode. This zone also won't be disturbed by paging or a doorbell chime. You will see DND in white on the system bar.

If you change a source and see 'DND' and 'Shared' at the bottom of the screen, it means someone in another room has chosen the source you have selected, and locked out anyone else from changing it.

SYSTEM TOOLS AND CONTROLS

Remote Zone Control

From the System screen, touch 'Enter' to access the Remote Zone Control screen.



From the Remote Zone Control screen you can make changes in another zone from your location. Power another zone on or off, change the source or adjust the volume from the touchscreen. Changes occur in real time.

To exclude a zone from remote control, simply place it into Do Not Disturb mode.

Press 'Close' to return to the System screen.



Remote Zone Control Screen

Favorites List

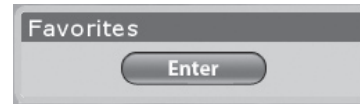
The user can create a list of up to 32 Favorites. These can be themes, sources, or channels.

- Save a favorite - Press and Hold the 'Star' button - Saves currently playing source, channel or theme. The keyboard will appear for name changes if you choose. Press 'Save', and a confirmation message will flash that the favorite is saved. The selection will fill the first empty spot on the Favorites screen (left to right then down).

Note: The source name is the default. With the SMS3 Media Server, if you are saving a theme you should edit the name to add your theme. Saving a theme as a favorite saves both the source stream and the theme (e.g., Stream 2 - Mom's Jazz). When you press the favorite to play it the source will change as well.

- Access favorites: Press 'Enter' button on the Favorites widget on the system page or the 'Star' button on the bottom system bar. Press any listing and that favorite will start playing.
- Delete a favorite - Press the purple button next to the Favorite. The keyboard appears, then press the purple 'Delete' button. A confirmation message will flash on screen.
- Edit a favorite - Press the purple button next to the favorite's name. The keyboard will appear. Make any edits to the name, and press 'Save'. A confirmation message will flash on screen.
- Exit Favorites screen - Press 'Close', or the 'Home' button.

Once the entries are in the favorites list, they can be assigned to a favorites widget. (See Widget Creation) If you try to save a favorite and the list is already full (32 have been assigned), you will need to delete one in order to save the new choice.



Access from the System screen

Favorites button

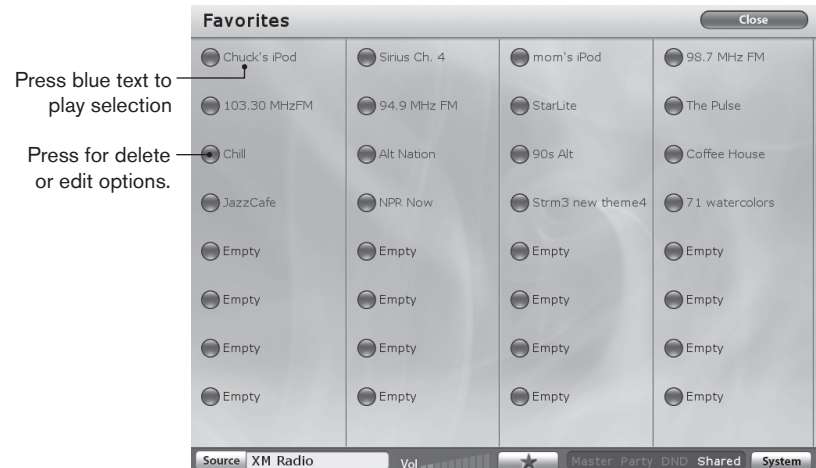
Press to view favorites

Press and hold to save current source / channel / theme as a favorite



System Bar

(always visible at the bottom of the screen)



Press blue text to play selection

Press for delete or edit options.

Favorites Screen

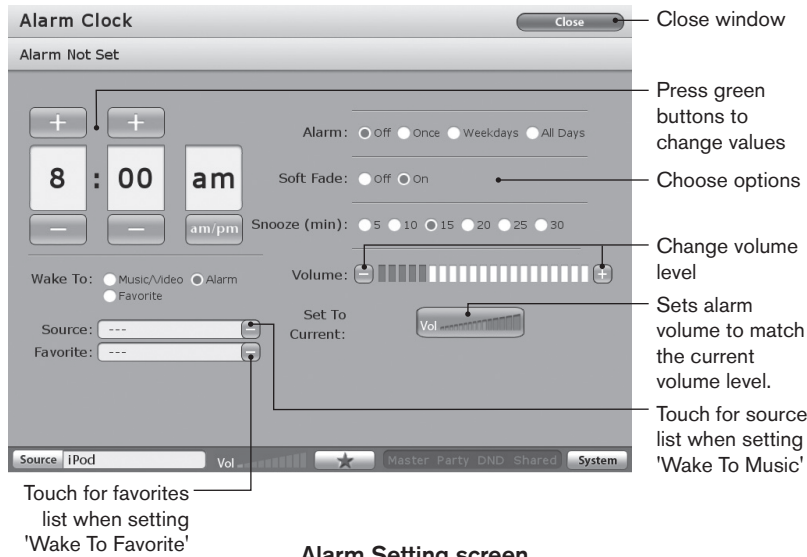
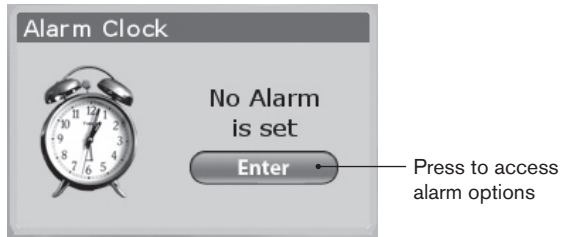
SYSTEM TOOLS AND CONTROLS

Alarm Clock

Touch Enter in the Alarm Clock control to set the alarm functions. Press the round buttons to set options and the green buttons to change values in the Alarm Setting screen. The 'Set to Current' button allows you to match the alarm volume with the volume level of what you are currently hearing.

Snooze - Activate by touching the 'Snooze' area of the screen, the >|| hard button or the pause button on the HHR-E5 remote control.

Turn Alarm Off - Press the 'power' hard button on the panel or on the remote control.



Alarm Setting screen

Sleep Timer

From the System screen, touch the appropriate button to set the interval to turn off the zone. The message line above the buttons will indicate the remaining time before the zone turns off.



Firmware Updates

From the System page, you can check for any updates for the TSV-E5. Press the Enter button, and the system will check for updates and automatically install them. This should be done periodically (3 month interval suggested).

If there are no new updates to install, the screen will display the message "Your TSV-E5 is currently up to date" and display a large Exit button to press. If there are new updates, the TSV-E5 will download and check the file, then display a reboot button. Press the button and do not power off during the update and reboot.



System Messages

From the system screen you can see if there are any system messages. Text above the enter button will show if there are messages to be viewed. Press 'Enter' to access the messages. Press the 'closed envelope' to view the message. Press the envelope icon to close the message. Press the 'Delete' button to remove the message.



Widget Basics

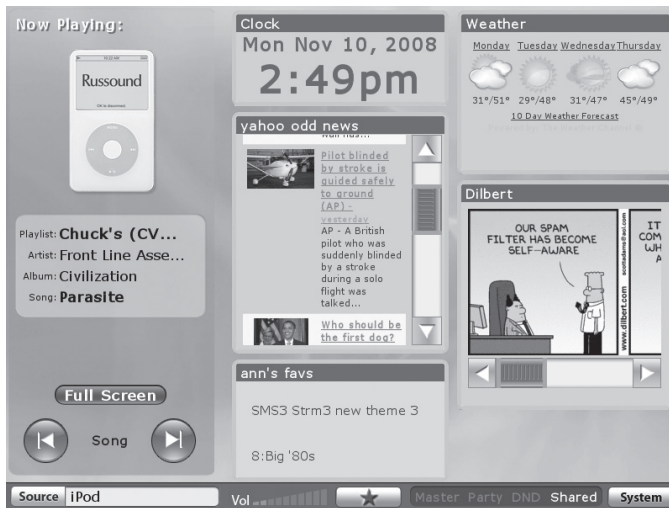
Widgets are the shortcuts to your favorites, news and weather information, selected RSS feeds, as well as a means of monitoring your IP cameras. The home screen has two options/views: the source view or the widget view. A repeated press of the 'Home' button will toggle between views, and the system will remember which was the last choice when the 'Home' button is pressed from another screen.

Access Widget View

Press the 'Home' button to toggle between the Source Home Screen and the Widget Home Screen. A scroll bar will appear on the right if there are more widgets than can show on the space available. Pressing the arrows or moving the scroll bar button will bring more widgets into view.

Linked Text

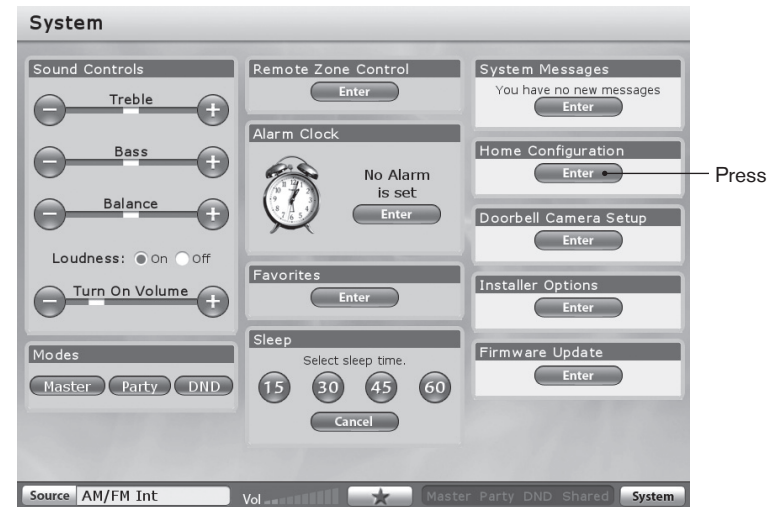
Some widgets have links showing as underlined or differently colored text. Touch the link to bring up a full screen browser page. Exit by pressing the 'Close' button on the top border.



Home Screen Showing Widgets

Change the widget home screen layout

Press the 'System' button at the lower right. Press the 'Enter' button in the Home Configuration box. The list on the left side of the screen shows the available widgets. Touch and move the scroll bar to see all the possibilities.



System Screen

Add a new widget

Touch the appropriate widget type from the list on the left. Press 'Add a new version' if it appears (shows if there are other versions of that widget type already active on the system). The widget will appear on the active screen. Add information to configure the widget. (e.g., for the weather widget - type in the zip code in the zip code field and then a name to identify it). There is an option to Cancel, Save, or Save to All. The 'Save to All' option will make the widget visible on all TSV-E5 screens on the system. The 'Save' option just adds the widget to the screen you are using.

Add an existing widget to this TSV-E5 (cameras, favorites...)

Touch the appropriate widget type from the list on the left. There will be a list of the current versions. Select one and it will appear in the active screen.

Remove a Widget

Touch the 'x' on the upper left border of the widget. This will remove the widget from the home screen, but not delete the widget type from the list.

Change the Layout

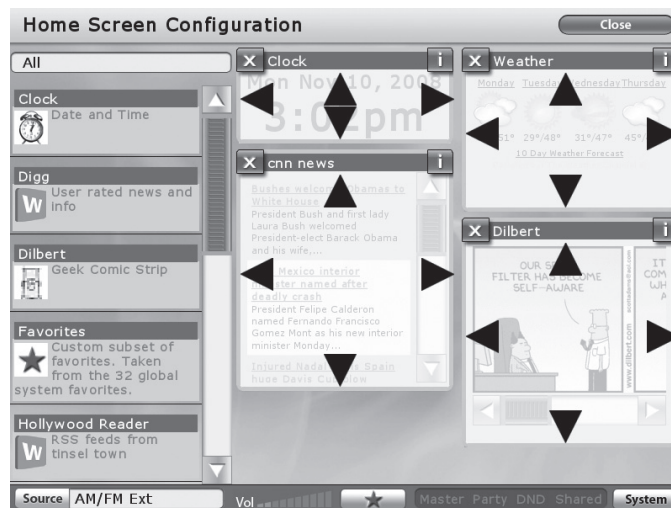
Once all of the widgets have been added to the screen, the layout can be customized. While still on the Home Screen Configuration page, the widget has an arrow on each border. Touch the arrows and move the widget to the desired location. The specific home screen layout is not communicated to other TSV-E5s. The initial layout will be any widgets that are added to all TSV-E5s.

Edit or view existing widget information / link.

Touch the 'i' on the upper right corner of the widget. 'Cancel' and 'Update' buttons as well as editable information will appear. Make any changes and press 'Update'.

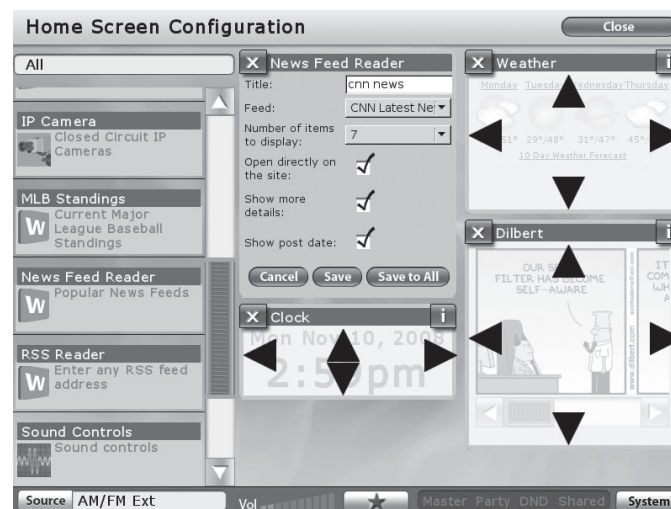
Exit Home Configuration Page

To exit, press the 'Close' button at the top of the screen, returning you to the system page. The changes you made to the configuration will be saved. Press the 'Home' button to view the widget screen.



Home Screen Configuration

Press arrows to move widgets to desired location



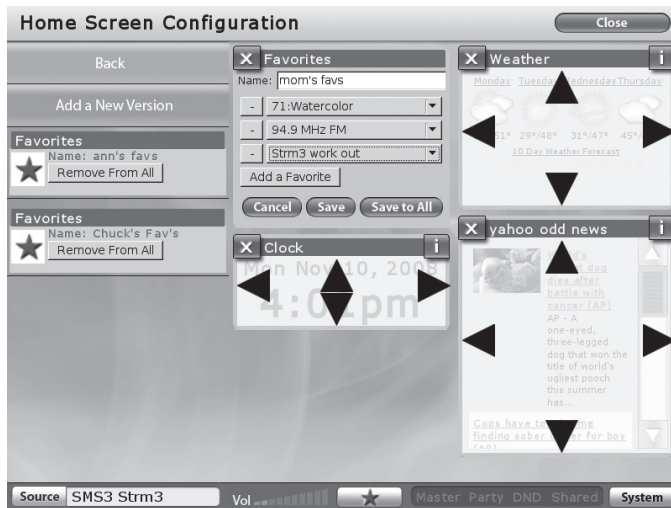
Home Screen Configuration

View widget information

Favorites Widget

Create a widget to allow quick access to your favorites. You must have previously saved your favorite themes, channels, and presets to the favorites list. You can create multiple 'favorite' widgets and give them custom names (e.g., Dad's favorites):

1. Press the 'System' button to bring up the System screen.
2. Press the 'Enter' button in the Home Configuration box.
3. Select the Favorites widget from the list at left. Press 'Add a New Version' if applicable.
4. Touch the name box and the keyboard will appear. Name the widget and press 'Save'.
5. Pressing 'Add a Favorite' will bring up the list of favorites. Touching an item from the list adds it to the widget. Repeat as needed.
6. Choose from 'Save to All' or 'Save' to add the Widget to the TSV-E5 home screen.
7. Favorites can be added to an existing widget by pressing the 'i' button in the Home Screen Configuration screen - then pressing the 'Update' button.

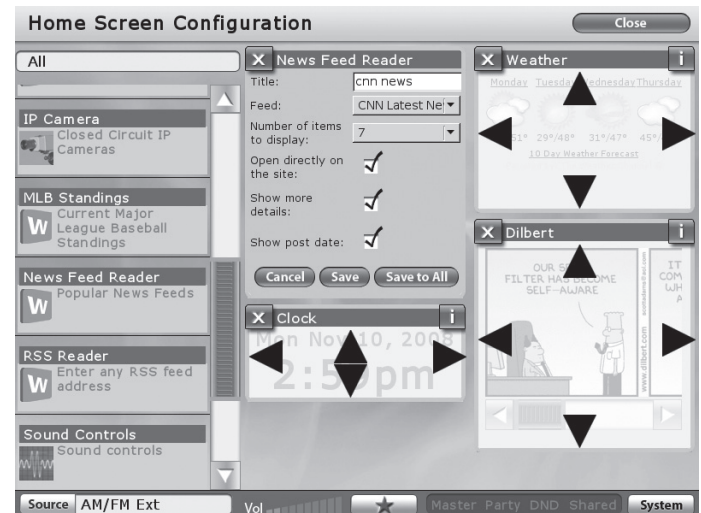


Home Screen Configuration
Add a new favorites widget

Web Widgets

Add a weather or news widget to the home screen. Choose one of the web widgets by pressing the appropriate box. Choose selections from a dropdown list if provided. If prompted for a name - press on the white box and the keyboard will appear on the screen. Type in the entry and then press 'Save'. Finish with the option in the box and press 'Save' or 'Save to All' and the widget will be placed on the screen.

- To configure the Weather widget, type the zip code in the zip code field then enter an identifying name.
- The RSS Reader allows the user to create a custom RSS feed widget. Type in a name, press 'next' and then type in the full address for the feed.
- Existing widgets can be edited by pressing the 'i' button and making changes - then pressing the 'Update' button.
- No guarantees are made for the longevity of the feed addresses. If a feed becomes unavailable there will be a notification on the screen.



Home Screen Configuration
Add a news feed widget

SYSTEM - IP CAMERA

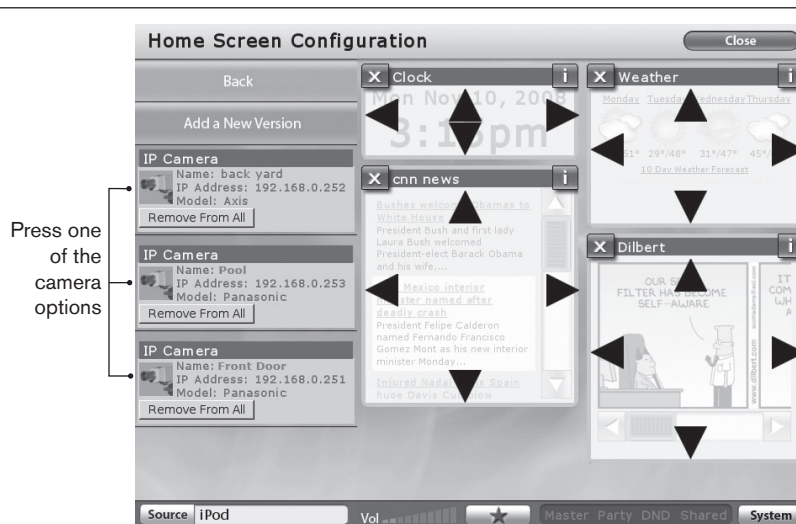
IP Camera Overview

- The small camera views will be visible when using the widget home screen.
- Switch between cameras by pressing the arrow buttons under the image.
- If configured to appear with a doorbell event, the camera image will appear on the screen. The image window can be manually closed by pressing the 'x' or it will time out in 40 seconds. Touching the image will keep it on the screen.

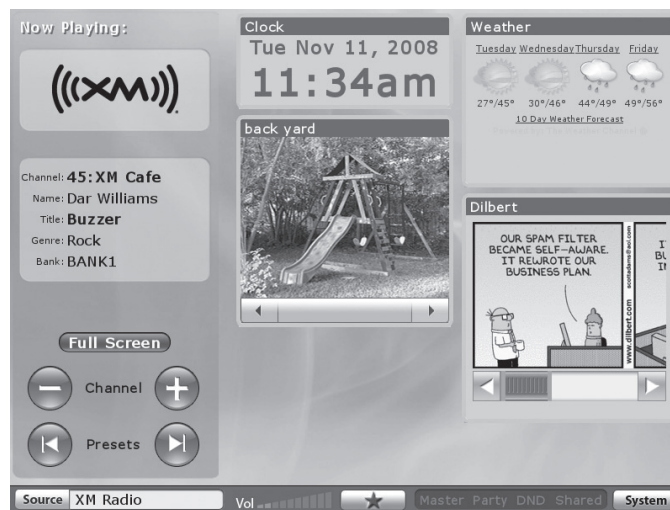
IP Camera Widget Creation

The installer will have configured and addressed the cameras available to the TSV-E5. There should also have been a widget created and visible on the TSV-E5. If not create the widget as follows:

1. From the System Main Screen, choose Home Screen Configuration. Choose IP Camera.
2. Pick the camera from the list of available cameras (press the box showing that camera).
3. Choose 'Save' or 'Save to All'. 'Save to All' will create a camera widget for this camera on all TSV-E5s on the system. You can add or delete camera widgets from each TSV-E5 home screen.
4. You can have up to two camera widgets on screen or you can have one widget and cycle through the different cameras by pressing the arrow buttons.



Home Screen Configuration
Choose camera widget to add to screen



Home Screen Widget View
Shows camera widget

IP Camera Operation

The camera images can be viewed in the small widget window or enlarged to fill the active area of the home screen.

In small mode, the name of the camera will be shown on the top border of the image. Touching the image will increase the size of the image to the large mode. By pressing the arrow buttons you can switch between cameras enabled on the system.

Touching the close button at the top will return the image to small mode, and make the rest of the home screen widgets available again.

If the cameras have PTZ (Pan Tilt Zoom) control, those controls will be available at the bottom of the image area.

- Left Arrow - pans camera left
- Right Arrow - pans camera right
- Up Arrow - tilts camera up
- Down Arrow - tilts camera down
- Zoom Buttons – Plus: Zooms in toward subject, Minus: Zooms out from subject



Screen - IP Camera Widget

TECHNICAL SPECIFICATIONS

TSV-E5 Color Touchscreen

Display: 8.4" (21.3 cm) diagonal color TFT LCD touchscreen
800 × 600 pixels

Controls: 10 hard buttons for common commands
Context-sensitive soft buttons on display

IR control: IR receiver with automatic gain control

Ethernet/power cable: CAT-5e, Maximum length 250 feet (76 m) between router and TSV-E5

Ethernet/power connector: 8P8C modular RJ-45 jack

IR pass-through cable: CAT-5e, up to 250 feet (76 m) (only with in-wall mounting)

IR pass-through connector: 8P8C modular RJ-45 jack

External IR receiver cable: Shielded 4-conductor, 2-twisted-pair signal cable (only with in-wall mounting)

External IR receiver connector: Removable 4-pole screw-terminal block

Power requirement: 48 VDC 420 mA 20 W power over Ethernet (power supply included*)

Dimensions: 10.31" W × 7.28" H × 1.87" D (26.2 × 18.5 × 4.75 cm)

Fits UL/CSA-approved 3-gang (53 ci.) wall box

Weight: 3 lbs. (1.4 kg)

*Included power supply is not IEEE 802.3af compliant

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The warranty on Russound E-Series products is NOT VALID if the products have been purchased on the Internet, by telephone or mail order, or from an unauthorized dealer. **PROTECT YOUR WARRANTY.** Buy only from a Russound Sphere Certified integrator. If you have questions about a dealer or reseller, contact Russound Sales at 866.604.5245

The Russound E-Series TSV-E5 product is fully guaranteed against defects in materials and workmanship for three (3) 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 serviced by a Russound Sphere Certified Integrator and used in accordance with written instructions. If service becomes necessary, please contact your local Russound Sphere Certified Integrator to arrange for product return.

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

Products out of warranty will be subject to a minimum repair estimate. All repairs will be made on the basis of the retail value of the parts and labor. All service is to be performed by Russound.

Russound Sphere Certified Integrator Instructions:

Prior to returning a unit for repair, contact Russound at (866) 604.5245 to obtain a Return Authorization Number. Reference this RA# number on all correspondence and outer shipping label.

Ship to:

Russound
ATTN: E-Series Priority Service
5 Forbes Road
Newmarket, NH 03857

It is recommended that the product be packaged in a corrugated container with a minimum of three (3) inches of resilient material to protect the unit from damage during transit. Accidental damage and shipping damage are not considered defects.



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28-1321 Rev. 1 07/31/09

8.4" Color Touchscreen

TSV-E5

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