

PANDORA  Spotify  dlina  tunein

   vTuner



# **XSource**

## **Streaming Media Player**

### **Installation Guide**

### NOTICE:

**IF YOU ARE NOT A RUSSOUND CERTIFIED INSTALLER,  
YOU WILL NOT BE ABLE TO INSTALL AND CONFIGURE THIS PRODUCT**

#### INTERNET CONNECTION REQUIRED FOR PRODUCT INSTALLATION

There are two things that must be done at the time of installation of this product that require a working internet connection:

**1. Enter valid Russound Certified Installer credentials.** The XSource is shipped in a locked state. It cannot be operated without first being configured by a Russound Certified Installer.

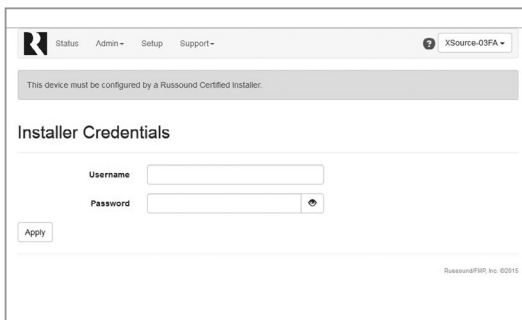
If you are a custom installation professional and wish to become authorized as a Russound Certified Installer, please contact your Russound Sales Representative for more information.

**Note:** If you are a Russound Certified Installer and you plan on installing this product on a job site that may not have working internet access, please configure the unit at your shop or other location where internet access is available **BEFORE** you take it to the job site.

**2. Firmware may be updated easily through Web Config configuration.** An internet connection is required for obtaining the most recent firmware.

**Note:** If an internet connection will not be available at the place of installation, please download the latest firmware from the Russound website to a laptop **before** going to the job site.

### Lockdown Feature



Russound Certified Installer credentials must be entered through the Web Config configuration web pages.

When the XSource is shipped from Russound, it will only operate in a "locked" state. In this state, no audio or control is available. In order to unlock the system, valid Russound Certified Installer credentials must be entered using the Web Config.

When the XSource is first powered on, a message will appear on any compatible user interfaces and the MyRussound App indicating that the device must be unlocked. The message will contain the IP address of the controller. Using your mobile device or computer, browse to the controller's IP address (type <http://> and then the IP address).

If you are using the MyRussound App, the IP address appears as a link that will direct you to Web Config via your local web browser.

If you do not have a valid Russound Certified Installer credential, please contact your Russound Sales Representative.

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## Product Overview

The XSource Streaming Audio Player is designed to offer a simple-to-install and simple-to-configure streaming media solution to add high quality streaming audio content to any audio system. The XSource can be used as a single stereo audio streaming source for a single room, or supply a single audio stream to a larger whole-house system through its easy-to-use analog line-level/digital (coax/optical) outputs.

The XSource allows for expansion to up to 16 streaming rooms of audio in a single installation with any combination of other XStream™ Series streaming products from Russound. When paired with a Russound multi-room controller, system expansion is possible up to 8 independent audio sources and up to 48 total rooms of audio.

In addition to offering streaming audio from popular internet sources, the XSource also offers streaming of local DLNA™-compliant audio. In addition a built-in USB port allows users to connect an external flash drive or an externally-powered USB hard drive for use as additional music sources.

## Features

- Independent streaming audio player
- Built-in AirPlay streaming with full metadata to iOS/Android apps or XTS touchscreens
- Hi-Res audio streaming support up to 24-bit/192 kHz
- USB for Flash or external USB Hard drive-based music collections
- Digital coax/optical or analog output
- Can be integrated (as a source) with a Russound multi-room system or standalone (as a zone) when used with any brand of amplifier or receiver
- Controlled with the MyRussound App and fully compatible with the Russound XTS in-wall touchscreen
- Bass, Treble, and Loudness settings available through the MyRussound App
- Supports local favorites
- Onboard web-based configuration, accessible from a smartphone or tablet
- Mix and match with other XStream Series components for versatile system designs
- Built-in slide connectors for physical coupling of multiple units

# WEB CONFIGURATION

## Key Programming Features

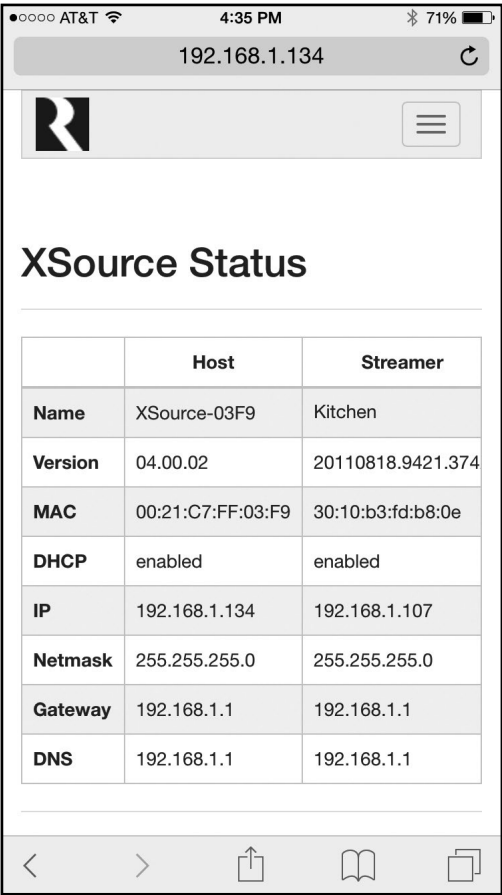
The XSource has a programming feature called Web Config. Web Config is an onboard hosted web page used for unlocking and configuring the XSource. Web Config can be accessed by entering the IP address or Hostname in an internet browser on a smartphone, tablet, or laptop that is connected to the same network as the XSource. Using Web Config, the XSource can be completely configured, quickly and easily, from the palm of your hand.

**Note:** When used with a Russound controller, additional configuration may be required for complex installations via the Russound SCS-C5 software on a PC.

For more information, refer to the installation manual of your specific Russound controller.

## Web Config Features

- General network configuration (DHCP/static IP)
- Firmware Updates
- Zone or source mode
- Assign device name
- Zone/Source Volume Trim
- Set AirPlay password
- Enable/disable or re-order streaming services



Web Config status page.

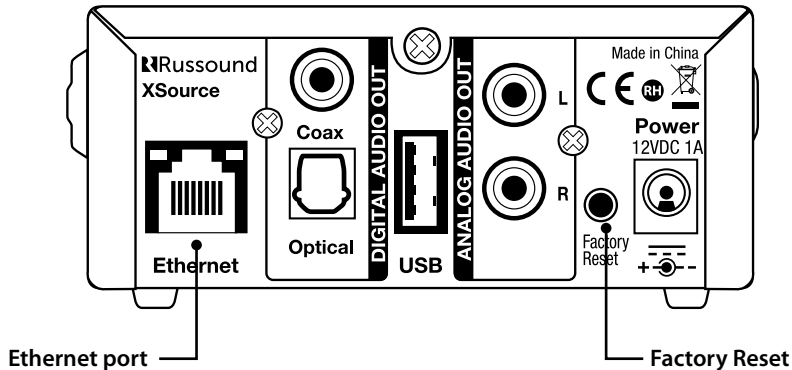
### Ethernet Connection

The Ethernet connection is used for configuration and programming as well as for enabling control via the MyRusound App or the XTS Touchscreen. The default network setting is DHCP-enabled, but the XSource can be configured with a static IP address using the Web Config software. The Ethernet connection is also used for the built-in streaming services and for playing any music stored on connected network drives using DLNA.

### Factory Reset

The factory reset button has two functions. A 3-second press and hold will restore network settings to DHCP. A 10-second press and hold will reset the XSource to its factory default settings.

**Note:** Performing a factory reset will restore the unit to its factory default settings and put XSource in Zone mode. The unit will require valid Rusound Certified Installer credentials in order to be unlocked and configured again. The factory reset will also delete all personal information including service account settings and passwords.



## INSTALLATION OVERVIEW

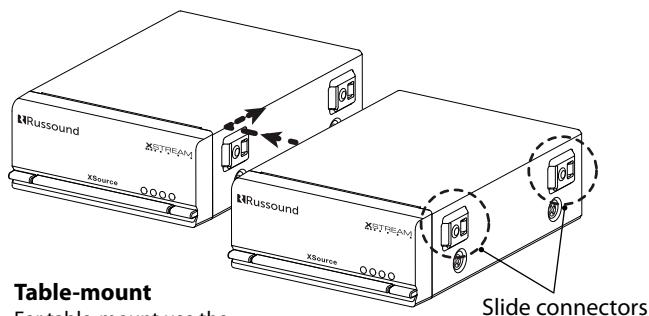
The XSource can be rack-mounted, table-mounted or wall-mounted. You can connect multiple XSource media players by using the integrated slide connectors as shown. For wall-mount, use the mounting holes on the bottom of the unit. See diagrams below.

### Important Considerations

1. Disconnect the power cord before making any wiring connections to the XSource.
2. Verify that all connections and polarity are correct.

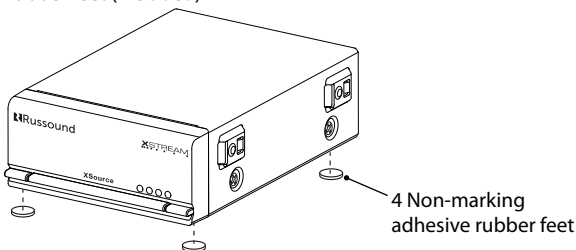
### Rack-mount - Slide Lock System

You can connect multiple XSource media players by using the integrated slide connectors as shown.



### Table-mount

For table-mount use the rubber feet (included)



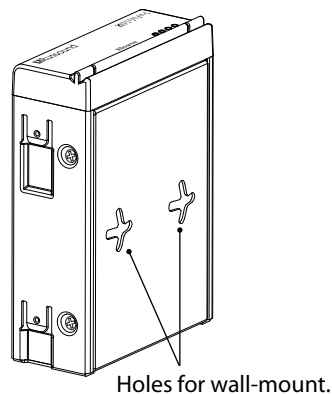
3. Keep all power cords away from all signal cables to prevent humming caused by induced noise.

4. Label wires appropriately, on both ends of the wire run.

5. Avoid running speaker wires or signal cables close to house electrical wiring for any distance. If you have to run them parallel, make sure to space the wires at least two feet from the AC line. If you need to cross an AC line it should be at a 90° angle.

### Wall-mount

For wall-mount use the mounting holes on the bottom of the unit.



## Step 1.

Connect the appropriate audio output of the XSource to your system using either the analog connection (stereo line-level RCA), or one of the digital outputs (coax or optical).

**Note:** Connection cables are NOT included with the XSource.

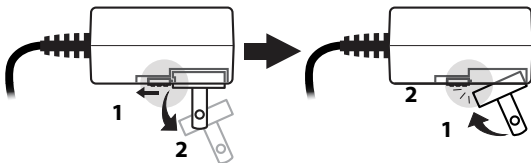
## Step 2.

Connect an Ethernet cable from an open network port on the home network to the Ethernet port on the rear of the XSource.

## Step 3.

Connect the 12vDC power cable barrel plug into the Power connection on the rear of the XSource.

1. The external power supply included with the XSource is shipped with a US power adapter attached. Additional adapters are included for Euro, UK, and Australian plugs. To change the adapter, depress and slide the tab as shown below and remove the existing adapter. The new adapter will snap in place as shown below.



The XSource will take 1-2 minutes to fully power up. When the green LED on the front panel is illuminated, you are ready to proceed.

## Step 4.

**Unlock the XSource** – Using a smartphone, tablet, or laptop, navigate to the XSource Web Config main page by typing in one of the following:

1. **XSource IP address** – The XSource occupies TWO IP addresses on a network. One IP address is used for communication and control information (Host) and one is used for the streaming services (Streamer). In order to access Web Config, enter the Host IP address of the XSource into the web browser on your phone,

tablet, or PC connected to the same network as the XSource. Example: if the IP address is 192.168.0.105, type <http://192.168.0.105> into the web browser.

**Note:** If you don't know the IP address, you can use a network scanning app such as FING (free for iOS and Android) to discover the IP address of the XSource.

2. **XSource Hostname** – Enter the hostname of the XSource into the web browser on your phone, tablet, or PC connected to the same network as the XSource. For your convenience, the hostname is printed on a label on the bottom of the XSource. The hostname is formatted as XSource-XXXX where XXXX is the last four digits of the XSource's MAC ID. Example: if the hostname is XSOURCE-1234, type <http://XSOURCE-1234> into the web browser.

At the top of the web browser, a notification will appear stating that the product must be unlocked by a Russound Certified Installer. Click on the unlock button and you will be taken to a page where you will enter your credentials.

Enter your Russound Certified Installer Email Address and password into the fields shown and click "Apply". Once your information has been validated, the XSource will unlock and be ready for configuration and use. This unlock process will need to be repeated any time that the XSource is reset to factory settings using the rear panel reset button.

*Refer to the picture of the unlock screen on page 2.*

## Step 5.

**Firmware Update** – Because new features and capabilities may be added at any time, always verify that the XSource has the latest firmware available. From Web Config, navigate to Admin > Firmware Update.

There are two options for updating firmware: Web Update and File Update. For Web Update, an internet connection is required. The XSource will automatically verify that it is running the latest firmware. If a firmware update is available, select Web Update and it will update the firmware. For File update, the firmware can be uploaded from a computer that is connected to the same network as the XSource. Only a local area network connection is required.

# CONFIGURATION

The XSource has two different modes of operation: Source mode and Zone mode.

Source mode is used for connecting an XSource as an audio source to a Russound C-Series or MCA-Series controller.

Zone mode is used for connecting an XSource as a streaming audio player with any other amplifier or receiver.

## Option 1

### Configuring the XSource as an audio source with a Russound C-Series or MCA-Series controller

The screenshot shows the XSource Web Config interface. At the top, there's a navigation bar with 'Status', 'Admin', 'Setup', and 'Support' tabs. The 'Setup' tab is selected, and the 'XSource-03FF' dropdown is visible. Below the navigation bar, the 'Device Settings' section is displayed. It includes a 'Device Mode' selector with 'Zone Mode' and 'Source Mode' options; 'Source Mode' is selected. The 'Source Number' is set to 5. The 'Device Name' is 'XSourcePlayer-03FF'. The 'AirPlay Password' field is empty, with an 'Apply' button next to it. The 'Services' section shows a list of enabled services: Pandora, SiriusXM, TuneIn, vTuner, and Media Server. There is also a 'Disabled' section which is currently empty.

#### Step 1.

**Operating Mode Selection** - In the XSource Web Config, navigate to Setup in the menu options. Under Device Settings, choose "Source Mode" as shown above. Once "Source Mode" has been selected, identify the source number that corresponds to the input source number of

the Russound controller. For example, if the XSource is connected to Source 4 on the controller, choose "4".

#### Step 2.

**Naming the XSource** - Enter the desired name for this XSource. This name will be visible to end users in the list of available Apple AirPlay devices and Spotify Connect devices for users to select when streaming from a phone, tablet, or computer. For example, an appropriate name when using the XSource with an MCA-66 controller as Source 4 might be "Streamer".

#### Step 3.

**AirPlay Password (Optional)** - If you want to use an AirPlay password to limit access for AirPlay users to stream audio to this XSource, enter an AirPlay password and click "Apply". This same password must be entered on any iOS device when using Apple AirPlay to stream audio to the XSource. If you do not want to use a password to control access to AirPlay, leave the AirPlay Password field blank.

#### Step 4.

**Enabling/disabling streaming services** - By default, all available audio services are enabled and are selectable as options when streaming audio from the XSource. If any of these services are not being used, or if you wish to block access to any services for this particular XSource, you can do so by dragging and dropping the services between the "Enabled" and "Disabled" sections on this Web Config page.

**Note:** You can also re-order the services so that the services the end user wants to use first are at the top of the list. Simply drag and drop each service in the "Enabled" list to the appropriate order that you would like them to appear to the end user.

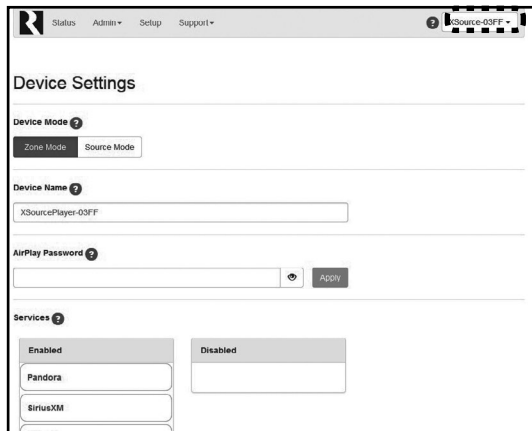


## Step 5.

### Configuring the Russound controller –

**Note:** This step shows the basic configuration when using an MCA-Series controller including the MCA-66, MCA-88 or MCA-88X. If using a Russound C-Series controller such as the MCA-C3 or MCA-C5, you must use Russound's SCS-C5 configuration software to configure the controller to use the XSource appropriately.

1. Navigate to the Web Config page of the Russound Controller. It may be available by clicking on the drop-down menu in the top right hand section of the XSource's Web Config page as shown below:



If the controller is not visible in the drop-down list, navigate to the controller's Web Config page by entering the controller's IP address or hostname in your web browser (a controller's hostname is normally located on a label concealed under the controller's removable front panel).

2. From the controller's Web Config page, navigate to the Configuration > Source Settings page.

- Enter a name for the XSource in the appropriate Source Name field that corresponds to the source number that you configured earlier. The name you enter here will be the name that the user will see when using the MyRussound App or on any other configured user interface to select their desired audio source. Suggested names when the XSource is configured as a source with a Russound controller include.

Jane's Streamer	Jane's Music	Streamer
Bill's Streamer	Bill's Music	Streamer 2
Her Streamer	XSource	Stream 1
His Streamer	XSource 1	Stream 2

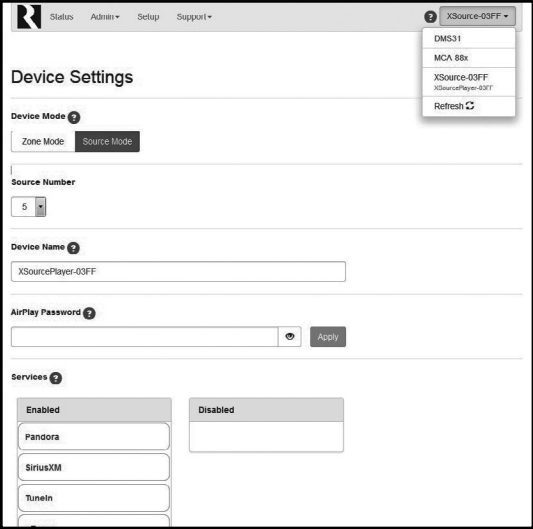
3. After naming the XSource, click on Details to access the next configuration page.

- Under Source Type, select Russound Media Streamer from the drop-down list.
- Depending on the controller model and the source you have selected, you may have additional options such as the Audio Input type (Analog, Digital Coax, or Optical).
- Adjust the Volume Trim if desired. The Volume Trim is used to allow compensation from one audio source to another so that volume levels do not jump within a room when different audio sources are selected on a controller. For example, certain audio devices such as a CD/DVD player may have a higher audio level than another device. You can use the volume trim levels to adjust the levels of every source on your Russound controller.
- Click Done when finished.

Congratulations! Your XSource is now fully configured to work with your Russound Controller.

Option 2.

Using the XSource as a streaming audio player with an amplifier or receiver (Zone Mode)



Step 1.

**Operating Mode Selection** - In the XSource Web Config, navigate to Setup in the menu options. Under Device Settings, choose Zone Mode. Once Zone Mode has been selected, additional configuration options will be displayed.

Step 2.

**Naming the XSource** – The name you choose will be visible to all users in the MyRussound App or other user interface when selecting the zone or room that they wish to control. Suggested names when the XSource is configured as a zone include such names as:

Master Bedroom	Dining Room	Guest Room
Billy's Room	Patio	Office
Great Room	Pool	Bath
Kitchen	Veranda	Media Room

This name will be visible to end users in the list of available Apple AirPlay devices and Spotify Connect devices for users to select when streaming from a phone, tablet, or computer.

Step 3.

**AirPlay Password (Optional)** - If you want to use an AirPlay password to limit access for AirPlay users to stream audio to this XSource, enter an AirPlay password and click “Apply”. This same password must be entered on any iOS device when using Apple AirPlay to stream audio to this XSource. If you do not want to use a password to control access to AirPlay, leave the AirPlay Password field blank.

Step 4.

**Enabling/disabling streaming sources** - By default, all available audio sources are enabled and are selectable as options when streaming audio from the XSource. If any of these sources are not being used, or if you wish to block access to any services for this particular XSource, you can do so by dragging and dropping the services between the “Enabled” and “Disabled” sections on this Web Config page.

**Note:** You can also re-order the services so that the services the end user wants to use first are at the top of the list. Simply drag and drop each service in the “Enabled” list to the appropriate order that you would like them to appear to the end user.

Step 5.

**Adjusting the Volume Trim (Optional)** - The Volume Trim is used to allow compensation from one audio source to another so that volume levels do not jump within a room when different audio sources are selected on a receiver or amplifier that allows switching of more than one audio source. If you are using the XSource with a single-input stereo amplifier, the Volume Trim does not need to be adjusted.

**Step 6.**

**All On Participation** – When Enabled (Default), this XSource will turn on when an “All On” signal is received. If you do not want this XSource to participate in an All On command, choose Disabled on this page. Examples of rooms where you might want this setting disabled are certain bedrooms or children’s nurseries where such participation would not be desired.

**Step 7.**

**Line Output Settings** – If using the analog line-level outputs of the XSource, you may select from either Variable (Default) or Fixed. The appropriate setting will depend on how the XSource is being used within your particular audio system. Note that this setting will only affect the analog output. Both digital outputs (coax and optical) are unaffected by changes to this setting and always operate in Fixed mode.

Congratulations! Your XSource is now fully configured to work with your amplifier or receiver.

**Networking Settings (Optional)**

The XSource can be configured to use either a dynamic DHCP network address (Default) or to use a pre-assigned static IP address. Note that the XSource occupies TWO IP addresses on a network. One IP address is used for communication and control information (HOST) and one is used for the streaming services (STREAMER).

Both IP addresses are set using the Admin > Networking selection from the Web Config menu. Both can be set as dynamic (Default) or both can be set as static IP addresses. Use caution when setting static IP addresses as incorrect settings can cause network instability and cause networking products such as the XSource or any other device on the network to stop working properly.

If static settings have been entered and you are experiencing difficulty communicating with the XSource, you can restore dynamic DHCP settings by pressing the Reset button on the rear of the XSource and holding the button pressed for 3 seconds.

When entering static IP information, two IP addresses must be assigned, one for the Host and one for the Streamer. If DHCP is enabled on the network, use caution to make sure that any static IP addresses assigned are not within the range of possible DHCP addresses and that the addresses are not used for any other networking device.

If necessary, change the Subnet Mask, Default Gateway, and DNS information to the appropriate settings for your particular network.

**Note:** When changing the network address of the XSource, your browser will lose its connection to the XSource and you will need to navigate to the XSource’s new network address.

## CONFIGURATION

### ***Configuring Streaming Service Accounts (Optional)***

**Spotify®** – Spotify account credentials are entered in the Spotify app on your phone, tablet, or PC. No additional information needs to be entered on the XSource. Note that the XSource Device Name that you set in Web Config will be the same name that appears in the Spotify Connect menu as an available selection, for example “Kitchen”, “Bedroom”, “Patio”, etc. This same name is also the name used when connecting to the XSource via Apple AirPlay.

**Pandora®** – Pandora account credentials are entered by using the MyRussound App or a connected Russound XTS in-wall touchscreen. Select the XSource as the active audio source and then choose “Pandora” from its menu. If no account information has been entered, a login screen will be displayed.

**SiriusXM®** – SiriusXM account credentials are entered by using the MyRussound App or a connected Russound XTS in-wall touchscreen. Select the XSource as the active audio source and then choose “SiriusXM” from its menu. If no account information has been entered, a login screen will be displayed.

**vTuner®** – No account information is needed to access vTuner internet radio. If you wish to associate an XSource with a vTuner account so that you can share vTuner favorites across multiple devices, you can select “Get Access Code” from the XSource vTuner menu and enter that code at <http://russound.vtuner.com> to associate an XSource with your vTuner account.

**TuneIn®** – No account information is needed to access TuneIn internet radio. If you wish to associate an XSource with a TuneIn account so that you can share TuneIn favorites across multiple devices, you can select “Account Association” from the XSource TuneIn menu and enter that code in your account settings page at <http://www.tunein.com> to associate an XSource with your TuneIn account.

### ***Multiple Streaming Products***

Note that account settings are individual settings for each XSource or other Russound XStream Series streaming product. If you have multiple XStream Series devices, each must be configured with the appropriate account login information. This is done so that each device can have its own independent user in a home so that users will not have to share accounts or favorites with anyone else in the home. The ideal installation is for each user in a home to have their own personal XStream Series streaming device so that each user always has access to their favorite music selections.

### ***DHCP Reset***

A DHCP Reset can be performed using the factory reset button on the rear panel of the XSource.

If your XSource cannot communicate on the network, you can reset its DHCP connection by pressing and holding the Reset button on the rear of the XSource for 3 seconds and then releasing it. This will restore the XSource to a DHCP connection from a static IP connection.

### ***Factory Reset***

For a full factory reset, erasing all configuration settings, and re-locking the XSource:

Press and hold the Reset button on the rear of the XSource for 10 seconds. The Red Status LED will light and the XSource will reboot on its own.

**Note:** Performing a factory reset will restore the unit to its factory default settings and put XSource in Zone mode. The unit will require valid Russound Certified Installer credentials in order to be unlocked and configured again. The factory reset will also delete all personal information including service account settings and passwords.

There are four LED's on the front panel of the XSource to assist with any troubleshooting. This chart explains the operation of the LED's:

System Status	Yellow LED	Green LED	Red LED	Blue LED
Booting	ON	-	-	-
Ready	-	ON	-	-
Factory Reset			ON	
Zone On	-	-	-	ON
Firmware Update	-	Blinking	-	-
Network Error	Blinking	-	-	-

### General Troubleshooting

Check for firmware updates available to make sure that your Russound product is always up to date and to take advantage of any additional features or supporting services that may be available.

Many issues can be resolved by power cycling the XSource by disconnecting the power supply, waiting 15 seconds and re-connecting the power supply.

For networking issues, resetting network gear in the home such as the router or any switches between the XSource and the router may also resolve any issues.

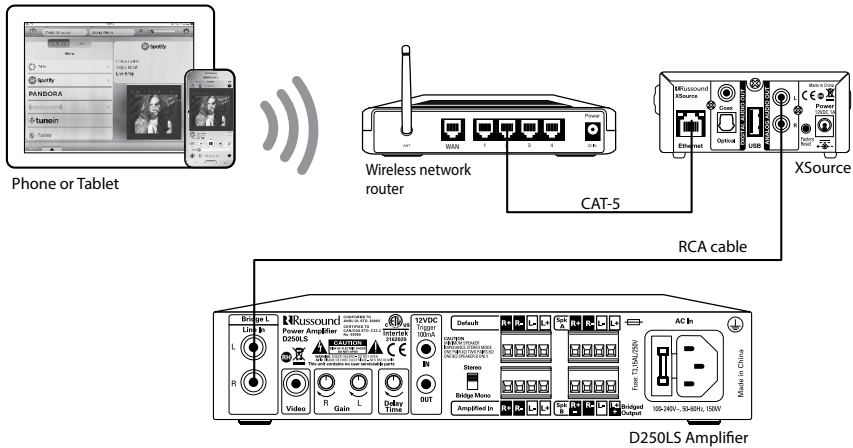
If you have the XSource configured with a static IP address and do not remember the settings, you can reset the XSource to DHCP by pressing and holding the rear panel Reset button for 3 seconds. If there are any issues reconnecting to the XSource after resetting to DHCP, unplug the XSource from the network and re-connect it, or try power cycling the network router to force a new DHCP connection.

For audio connection issues, verify all audio connections from the XSource to the controller/amplifier/receiver. If connected to a Russound controller, verify that the source number configured on the XSource matches the source number that has been configured for it on the controller and that the input source type matches the correct type being used (analog, coax, or digital).

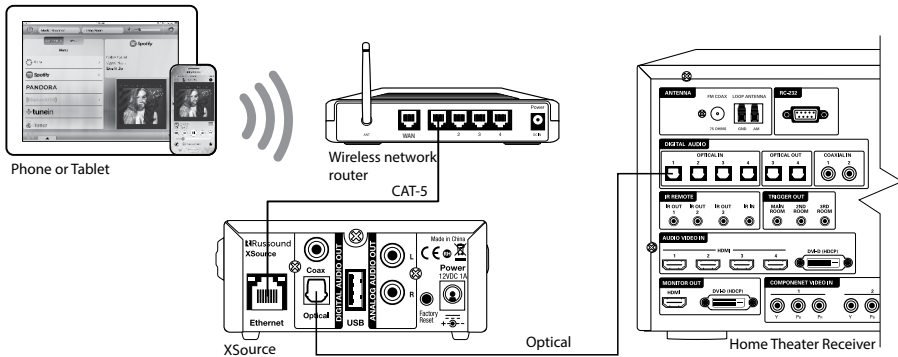
For more system installation and network troubleshooting tips, visit the Russound Dealer Support Portal at [www.russound.com/portal](http://www.russound.com/portal)



## ADDITIONAL CONNECTION DIAGRAMS



Connection with D250LS amplifier



Connection with home theater receiver

## NETWORKING BEST PRACTICES

### *Networking Best Practices*

Some of the most common problems can be caused by network configuration and out-of-date firmware. Improper network configuration can prevent XStream Series devices from connecting and communicating on the network.

The first step for troubleshooting is to check networking connections and power cycle the equipment to check for proper communication.

A dedicated wireless 802.11n or better router is recommended. The reason for this is that ISP supplied modem/router combination devices may have incompatible settings that can cause issues with XStream Series devices connecting or communicating across the network. It is recommended to not use these modem/router combination devices, because the end user may not have access to all services of the device. The ISP may have sole control over the device settings and send updates to reset, reinitialize, or replace the device at their discretion.

Check for **firmware updates** available for your Russound equipment to make sure they are up-to-date in order to take advantage of any additional features and supported services.

Use a network discovery and IP scanning application that can assist to better understand the network, such as FING. <http://overlooksoft.com/FING> is free and available for iOS and Android and can assist in identifying devices on the network and if there are any IP addressing conflicts.

### *Router Configuration:*

A few routers may need additional configuration to prevent incompatibility or intermittent connection issues. Access the router and check user accessible settings that enable support for **Multicast** or **IGMP** and enable them or check for options that may be actively filtering these protocols and disable those filters. Check for other options that could have an effect on communication: Options such as **UPnP** should be **enabled** Options such as **IGMP Proxy**, **IGMP Snooping**, **Multicast Filtering** or **WMM Proxy** should be **disabled**.

### *Glossary*

**Multicast:** The delivery of a message or information to a group of destination computers simultaneously in a single transmission from the source.

**Unicast:** The delivery of a message or information which is sent from one point to another point An example would be connecting to an IP address of a URL such as [www.google.com](http://www.google.com).

**IGMP:** Internet Group Management Protocol is an integral part of IP Multicast and is used for one-to-many networking applications such as online streaming audio and video, gaming, and allows more efficient use of resources when supporting these types of applications.

**WMM:** Wireless Media Management is designed to support consumer and corporate applications and works with 802.11a, 802.11b and 802.11g. The specification provides basic prioritization of data packets based on four categories - voice, video, best effort and background.

**UPnP:** Universal Plug and Play uses Multicast and allows media servers and streaming devices to communicate.



**Frequency Response:** 20Hz to 20KHz

**Audio Source Outputs:** Analog - Stereo RCA jacks  
Digital - Optical or Coax

**Line Audio Output:** 2Vrms

**Audio Source Inputs:** 1 USB 2.0 Media Playback

**Communication ports:** 1 Ethernet RJ45, 10/100 Base T

**Music File Formats:** MP3 (CBR, VBR), WAV (8, 16-bit),  
OGG Vorbis, FLAC (8, 16-bit). AAC, AAC+  
(supports up to 24-bit/192 kHz)

**Power Requirements:** Input: 100-240V~50/60Hz 0.4A  
Output: 12VDC, 1A

**Dimensions:** 4"W x 6.375"D x 1.75"H (10.2 x 16.2 x 4.4cm)

**Weight:** 1.2 lbs. (0.54 kg)



## SAFETY INSTRUCTIONS

**1. Read Instructions** - All the safety and operating instructions should be read before the equipment is operated.

**2. Retain Instructions** - The safety and operating instructions should be retained for future reference.

**3. Heed Warnings** - All warnings on the equipment in the operating instructions should be adhered to.

**4. Follow Instructions** - Follow all operating and user instructions.

**5. Water and Moisture** - The equipment 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.

**6. Mounting** - The equipment should be mounted or secured as recommended by the manufacturer.

**7. Heat** - The equipment should be situated away from heat sources such as radiators, heat registers, stoves, or other equipment (including amplifiers) that produce heat.

**8. Power Sources** - The product should be connected to a power supply only of the type described in the operating instructions or as marked on the equipment.

**9. Grounding or Polarization** - Precaution should be taken so that the grounding or polarization means of the product is not defeated.

**10. Avoid spills and foreign objects** - Ensure liquids and objects don't get into the product enclosure through any openings.

**11. Damage Requiring Service** - The equipment should be serviced by qualified service personnel when: the power supply cord or the plug has been damaged; objects have fallen, liquid has been spilled into the equipment; the equipment has been exposed to rain; the equipment does not appear to operate normally; or the equipment has been dropped or the enclosure is damaged.

**12. Servicing** - The user should not attempt to service the equipment beyond that described in the operating instructions. All other servicing should be referred to qualified service personnel.

**13. Care** - From time to time you should wipe any dust accumulation from the equipment with a soft dry cloth.

**Warning:** Any changes or modifications to this unit not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

**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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