

a sound relationship

Russound



P75BT AMPLIFIER

Dual-Source Stereo Power Amplifier

A powerful stereo amplifier, packed with useful features such as Dual Source auto-switching, built-in Bluetooth, bass and treble adjustments and a convenient front-panel volume control. Designed for standalone operation with any audio source, or for adding additional rooms of audio to existing systems, the P75BT is a great addition to any premium audio system.

HVIN: P75BT IC ID: 7950A-P75BT

INSTALLATION GUIDE

Download the
Latest Manual



Russound.com/
P75BT-manual

OVERVIEW

Since 1967, Russound has been dedicated to providing premium audio components and accessories designed for improving the quality of life of its customers. From amplifiers to speakers to complex control systems that make it easy for anyone to listen to their favorite music, movies, podcasts, or any audio content. The P75BT from Russound adds high-power amplification in an elegant design with easy-to-use front panel controls perfect for locating in any area of the home or when installed in an equipment rack.

WHAT'S IN THE BOX

- 1 Russound P75BT Amplifier
- 1 50Ω Bluetooth Antenna
- 1 6-foot Power Cord (International Model Available with UK, EURO, and AUS cords)
- 1 Removable 4-Pin Screwdown Speaker Connector

OPTIONAL ACCESSORIES

P75BT Rack Mount Kit – For installing a P75BT into a standard equipment rack. The P75BT is a 1/2-rack design. By using the optional P75BT Rack Mount kit, you can install a P75BT in either the left or right side of an equipment rack. Rack Mount screws are not included.

WHAT YOU NEED FOR THE INSTALLATION

- #2 Philips Screwdriver for attaching the included rack mount ears (Optional)
- Wire Strippers

AUTOMATIC SOURCE SWITCHING

The P75BT uses a powerful auto-detect feature to allow for the easy use of 2 different audio sources that can switch automatically. This is designed for applications where there is a default source that is the primary audio source used almost all of the time and a second “interrupting” source that is turned on occasionally and takes priority whenever it is used. For example, a streaming audio box is normally used as the source but occasionally using an additional source is desired. By connecting the streaming audio box to the “Main” connection on the P75BT and the other audio source to the “Interrupting” connection, the P75BT will play the main source, streaming audio, and automatically switch to the other source when it detects the audio signal becoming active. The P75BT will switch back to the main input, streaming audio, a few seconds after the other audio source is no longer present.

BLUETOOTH AUDIO

With its powerful built-in Bluetooth audio source (Version 5.3), the P75BT can receive audio signals from up to 65' (20 m) away indoors. Once paired with a phone or tablet, the P75BT can receive Bluetooth audio at any time and automatically switch to the Bluetooth audio source, making the use of Bluetooth as simple as possible for everyone in the home. When the Bluetooth audio source stops transmitting, the P75BT will return to its previous active audio source after a few seconds.

MAKING THE CONNECTIONS

Note: All wiring connections must be made with the system powered off and the power cord disconnected from the electrical mains (unplugged from the wall outlet).

The P75BT is very easy to install and only requires three connections: audio source(s), loudspeakers, and power.

The amplifier may be placed on a shelf, mounted to a wall, or installed into an equipment rack using the optional P75BT Rack Mount Kit.



USING THE P75BT

WALL MOUNTING

CONNECTING AUDIO SOURCES

There are two input source connections on your Russound P75BT amplifier:

Main Input & Interrupting Input

MAIN INPUT

This is the primary connection for any audio source. If you are only using a single audio source, connect it to the Main Input connection.

INTERRUPTING INPUT

The Interrupting Input is only used when connecting a second audio source to the P75BT. The "Interrupting" source will interrupt the main source and become the active audio source of the P75BT whenever it has an active audio signal. A few seconds after the "Interrupting" audio signal stops, the P75BT will automatically switch the input back to the "main" input.

For all input source connections, use high-quality RCA cables and make sure all cables are fully attached and secured to the input source and to the amplifier.

USING BLUEOOTH

In order to pair a Bluetooth device with the P75BT, you must put the amplifier into Bluetooth Pairing Mode. To enter pairing mode, press and hold the front panel power button for a few seconds until the front panel LED begins blinking blue.

The amplifier is now in Pairing Mode. Use your phone/tablet to complete the pairing.

You can now play Bluetooth audio from your phone/tablet to your connected loudspeakers. Keep in mind that the maximum volume that can be played by your P75BT is set by the position of the front-panel volume control.

CONNECTING LOUDSPEAKERS

Loudspeaker connections should always be made with the electrical power removed from the P75BT. Simply disconnect the power cord while wiring connections are being made and re-connect the power cord when finished.

Loudspeakers will always connect directly to the P75BT unless a separate impedance matching volume control, speaker selector or similar device is required (all sold separately). CL2 rated wire must be used when running wire within a home's walls. The loudspeaker connectors are designed to use up to 12ga wire.

When connecting the loudspeaker wires, be sure to observe proper polarity. The positive and negative terminals on the Russound P75BT must correspond with the positive and negative terminals at both the left and right loudspeakers. This is also true of the power connections at the loudspeaker side of the connection. Make sure that all connectors are tight and that there are no loose strands.

Make sure the polarity and left/right connections are made properly.

The speaker output is stable to 4 ohms, which means that up to 2 pairs of 8-ohm speakers may be connected. Do not use multiple pairs of 6-ohm or 4-ohm speakers so that the total impedance of the connected speakers does not drop below 4 ohms.



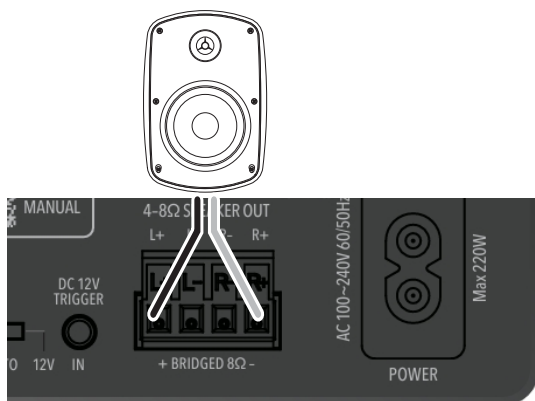
USING THE P75BT

BRIDGING LOUDSPEAKER CONNECTIONS (BRIDGED MODE)

Please note that all wiring changes and changes to the settings switches on the rear of the Russound P75BT should be done with the amplifier powered off by removing the power cord from the rear of the amplifier.

The Russound P75BT includes a powerful feature called “Bridging”. Bridging combines the left and right speaker outputs to form a single, higher power mono output. It is perfect for larger spaces, and especially for any outdoor audio zones where higher power is required. When using bridging, an 8-ohm speaker connection is required.

The wiring method for bridged connections is different from that of normal stereo pairs of loudspeakers. When bridging, only the left-most and right-most connectors of the speaker output are utilized. The negative conductor of your loudspeaker wire will connect to the right-most position, and the positive conductor will connect to the left-most position as indicated and shown below.



Please make sure to verify the polarity of the wiring, matching the amplifier connection to the loudspeaker connection.

Once the loudspeaker wiring has been configured and before powering on the amplifier, set the “Stereo/Bridged” slide switch to the right for “Bridged” operation.

POWER CONNECTION

Once the source and loudspeaker connections have been made and the stereo/bridged mode setting made, you can connect the power cable to the rear of amplifier.

BASS/TREBLE ADJUSTMENTS

The P75BT has a convenient audio output adjustment on the rear panel, allowing for +/- 12dB changes to both the bass and treble. Using a flat-bladed mini-screwdriver, adjust the bass and treble switches to the desired position. Please note that the Flat "0" setting without any adjustment is the vertical position of the switch as marked.

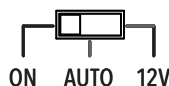
TRIGGER IN/OUT

The 12VDC Trigger Input is used to turn on the P75BT, toggling between standby mode when no 12V signal is present and On mode when a 12V signal is present. This is very helpful for audio sources that have a low output signal or where discrete, dedicated control of the amplifier status is required.

The 12VDC Trigger Output is activated when the P75BT is active. This includes when a 12VDC input signal is present in 12V mode, when the unit turn-on mode is set to "On", and when the unit turn-on mode is set to "Auto" and an input signal is present.

TURN ON MODE

The P75BT amplifiers have three turn-on modes:



ON – The amplifier is always on and ready to be used. The amplifier consumes more electricity in this mode.

12V – The amplifier will turn on whenever a 12VDC signal (~100mA) is detected at the 12V trigger "In" connection. When no 12V signal is present, the amplifier will enter standby mode after a delay of approximately 1 second and will then consume less than 0.5W of electricity.

AUTO – The amplifier will automatically detect an input signal for either input and will turn on when needed. When no signal is detected, the amplifier will enter standby mode after a delay of approximately 10 minutes. When in

USING THE P75BT

standby mode, it will consume less than 0.5W of electricity.

Russound recommends using the amplifier in AUTO mode to reduce electricity consumption.

LINE OUT

The P75BT's audio output can be extended to an additional amplifier for use with larger rooms or spaces. Simply connect a stereo RCA cable to the Line Out connection on the rear of the amplifier and connect to the input of a second amplifier as desired. Please note that this signal is not buffered so a maximum of 3 daisy-chained connected amplifiers could be used.

FRONT PANEL POWER BUTTON

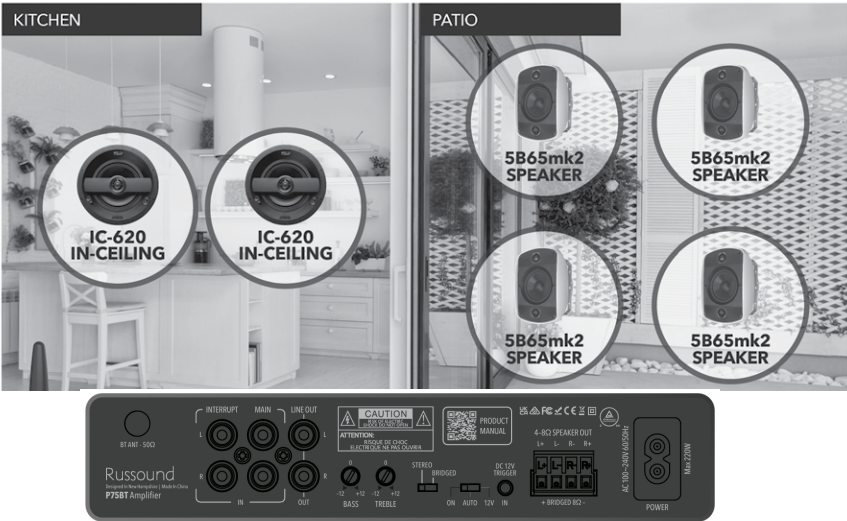
The Front Panel Power Button will toggle between “On” and “Off” modes. It can be used to easily turn the unit off and on. When pressed and held for 3 seconds or more, the front panel power button will also place the P75BT into Bluetooth pairing mode.

VOLUME CONTROL

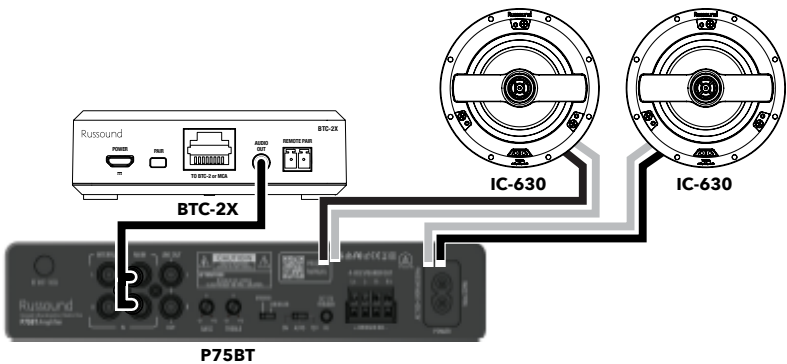
The front panel volume control is used to adjust the sound output level for the actively selected speakers. The level of this volume control sets the maximum output of the P75BT. For example, if using Bluetooth audio from a phone, the phone’s volume control can adjust the volume from zero up to the currently selected level of the P75BT’s front-panel knob. Please take care not to set the volume so high that the sound begins clipping or distorted. If you notice any audio distortion, turn down the volume to prevent damage to your loudspeakers.

APPLICATIONS OF THE P75BT AMPLIFIER

OUTDOOR SYSTEM WITH THE P75BT



EASY BLUETOOTH AUDIO SYSTEM



SPECIFICATIONS

DESCRIPTION	P75BT
Number of Channels	2
Bridgeable	Yes
4 ohm Power Output	75W / Channel, 1kHz Stereo Driven
8 ohm Power Output	40W / Channel, 1kHz Stereo Driven
8 ohm Bridged Power Output	150W, 1kHz
4 ohm Input Sensitivity	630 mV for 75W @ 1kHz
8 ohm Input Sensitivity	580 mV for 40W @ 1kHz
Input Impedance	>22k ohms Line Input
Signal to Noise Ratio	>90dB A-weighted
Trigger Input / Output	12VDC
Line Inputs	Primary Source & Interrupting Source
Bluetooth Input	Yes (with pairing button and memory)
Speaker Connectors	5-way binding posts
Operating Temperature	32°F to 104°F (0°C to 40°C)
Altitude	0 to 9,843' (3,000m)
North American Model	115 VAC, 60Hz (Max Power TBD)
Fuse Rating	3A, 250V FA
Power Connector	IEC C7
Standby Power Consumption	<0.5W
Product Dimensions	17.125"(W) x 1.75"(H) x 6.54"(D)
Product Weight	5.0 lbs (2.27kg)
Shipping Dimensions	20.67"(W) x 5.83"(H) x 10.63"(D)
Shipping Weight	8.5 lbs (3.86kg)
Limited Warranty	2 Years



	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 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.

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 adhered to.
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. Do not touch the appliance with wet hands. Do not handle the appliance or power cord with wet or damp hands. If water or any other liquid enters the appliance cabinet, take it to qualified service personnel for inspection.
6. Cleaning - The appliance should be cleaned only as recommended by the manufacturer. From time to time you should wipe off the front and side panels and the cabinet with a soft cloth. Do not use rough material, thinners, alcohol or other chemical solvents or cloths since this may damage the finish or remove the panel lettering.

SAFETY

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. Place the unit in a well-ventilated location, leaving at least 2 inches (5 cm) of clearance on all sides, top and rear of unit for air flow. If ventilation is blocked, the unit may overheat and malfunction.
8. **Heat** - The appliance should be situated away from heat sources such as radiators, heat registers, stoves, or other appliances (including amplifiers+6) that produce heat.
9. **Grounding or Polarization** - Precaution should be taken so that the grounding or polarization means of an appliance is not defeated.
10. **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.
11. **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.
12. **Main Power Disconnect** - The main power plug is used as the disconnect device and shall remain readily operable. When installing the product, ensure that the plug is easily accessible.
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.
14. **Attachments** - Only use attachments/accessories specified by the manufacturer.
15. **Location of the Amplifier** - Do not mount this unit under a kitchen cabinet. Do not expose the amplifier to direct sunlight or heating units as the amplifier internal components' temperature may rise and shorten the life of the components.
16. **Avoid damp and dusty places.**
17. **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.
18. **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.
19. **Damage Requiring Service** - The appliance should be serviced by qualified service personnel when: A. The power supply cord or the plug has been damaged; B. Objects have fallen, liquid has been spilled into the appliance; C. The appliance has been exposed to rain; or D. The appliance does not appear to operate normally; or E. The appliance has been dropped or the enclosure is damaged.

FCC WARNING

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Any Changes or modifications 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 or more of the following measures:

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

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment.

This equipment should be installed and operated with minimum distance 20cm between the radiator & your body.

IC WARNING

English: This device contains licence-exempt transmitter(s)/receiver(s) that comply with Innovation, Science and Economic Development Canada's licence-exempt RSS(s). Operation is subject to the following two conditions:

1. This device may not cause interference.
2. This device must accept any interference, including interference that may cause undesired operation of the device.

French: Cet appareil contient des émetteurs/récepteurs exemptés de licence qui sont conformes aux RSS exemptés de licence d'innovation, sciences et développement économique Canada. Le fonctionnement est soumis aux deux conditions suivantes:

1. Cet appareil ne peut pas causer d'interférences.
2. Cet appareil doit accepter toute interférence, y compris les interférences qui peuvent causer un fonctionnement indésirable de l'appareil.

This equipment complies with ISED radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator & your body.

Cet équipement est conforme aux limites d'exposition aux rayonnements ISED établies pour un environnement non contrôlé. Cet équipement doit être installé et utilisé avec une distance minimale de 20 cm entre le radiateur et votre corps.

LIMITED WARRANTY

The Russound P75BT is guaranteed for two (2) years from the date of purchase against all defects in materials and workmanship. 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. Russound assumes no responsibility for defects resulting from abuse or servicing performed by an agency or person not specifically authorized in writing by Russound. Damage to or destruction of components due to improper use voids the warranty. In these cases, the repair will be made at the owner's expense. Accidental damage and shipping damage are not considered defects under the terms of the warranty. To return for repairs, the unit must be shipped to a repair facility designated by Russound at the owner's expense, along with a Return Authorization number and documentation explaining the nature of the service required. Any product returned without prior written permission will be returned to sender. 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.

WARRANTY ADDRESS

Russound
Attn: RA# (Insert your RA number here)
1955 Wehrle Dr
Williamsville NY 14221

email: tech@russound.com



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