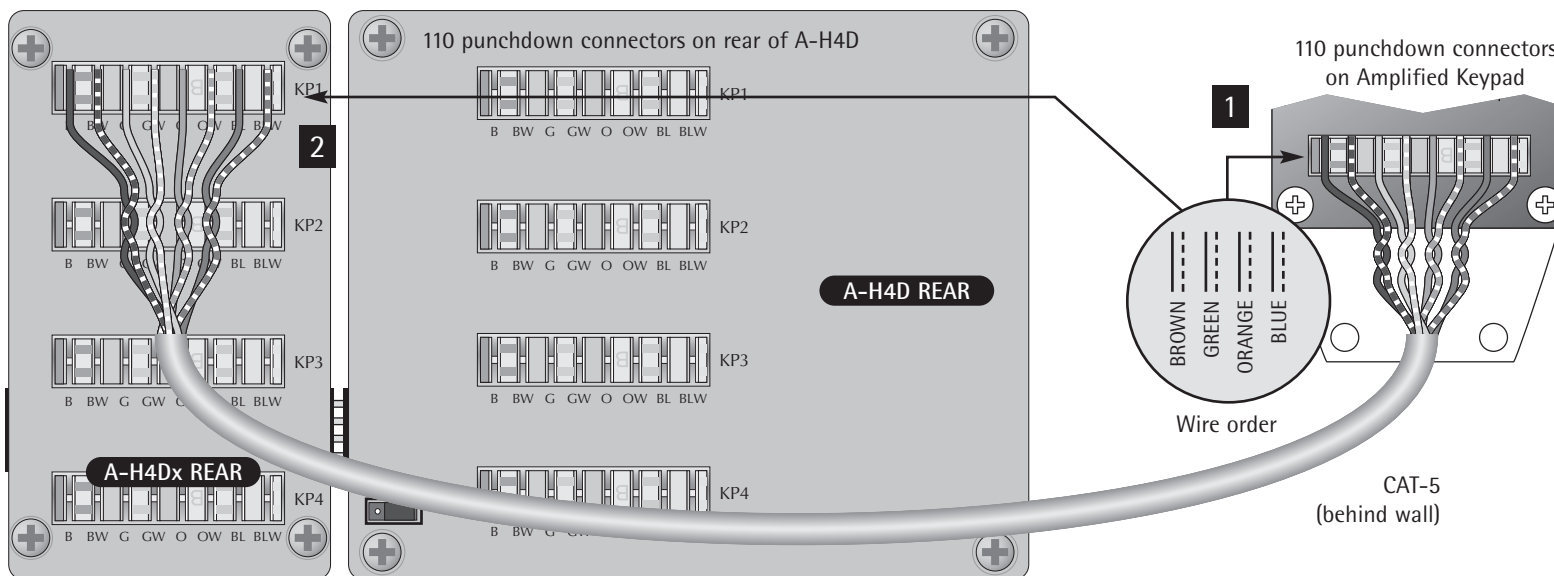
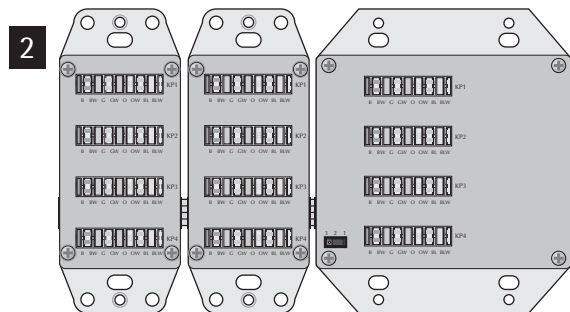


Multiple A-H4Dx Expansion Modules connected to A-H4D



1 AMPLIFIED KEYPAD MODULES

Connect four (4) A-BUS® Amplified Keypad Modules to the A-H4Dx Hub using CAT-5 cables. Both the Hub and the Amplified Keypads use 110 punchdown connectors for the 8 individual conductors of the CAT-5 cable (use a punchdown tool with a 110 blade to insert the conductors).

2 A-H4Dx CONNECTIONS

The A-H4Dx connects simply to the A-H4D using the header pins shown. The header pin connection is for IR, audio and status. Another A-H4Dx can be added by connecting the female connection of the first A-H4Dx, located on the right side facing front, to the male header pins of the second A-H4Dx expansion hub. Capabilities are endless pending additional power supplies. Each A-BUS® in-wall hub uses 110 punch down connection to connect the CAT-5 wire to the A-BUS® amplified modules. Connect the A-BUS® amplified keypad modules by using CAT-5 wire to the 110 punch down connector using color coding as shown in the diagram.

3 POWER SUPPLY

Connect the A-PS, 24 VDC, 2.5A, power supply to the power jack located on the front of the A-H4Dx Decora® wall plate. This will power the A-H4Dx and the connected A-BUS® amplified modules.

4 OPERATION

A-KP2 keypads can be operated manually or by using the optional A-KP RC remote control. A-VC volume controls are operated manually using the rotary knob. If you installed IR emitters (see Step 2), then sources can be operated with their own remote control by aiming it at the IR window on an A-KP2 keypad.

5 MOUNTING


The A-H4Dx will mount next to the A-H4D double gang A-BUS® hub. This will require the use of a 3-gang box, if another A-H4Dx is added then a 4-gang box will be needed.

SAFETY INSTRUCTIONS

1. Read Instructions - All the safety and operating instructions should be read before the appliance is operated.
2. Retain Instructions - The safety and operating instructions should be retained for future reference.
3. Heed Warnings - All warnings on the appliance in the operating instructions should be 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.
6. Wall or ceiling Mounting - The appliance should be mounted to a wall or ceiling only as recommended by the manufacturer.
7. Ventilation - The appliance should be situated so that its location or position does not interfere with its proper ventilation. For example, the appliance should not be situated on a bed, sofa, rug, or similar surface that may block the ventilation openings, or placed in a built-in installation, such as a bookcase or cabinet that may impede the flow of air through the ventilation openings.
8. Heat - The appliance should be situated away from heat sources such as radiators, heat registers, stoves, or other appliances (including amplifiers) that produce heat.
9. Power Sources - The appliance should be connected to a power supply only of the type described in the operating instructions or as marked on the appliance.
10. Grounding or Polarization - Precaution should be taken so that the grounding or polarization means of an appliance is not defeated.
11. Power Cord Protection - Power supply cords should be routed so that they are not likely to be walked on or pinched by items placed upon or against them, paying particular attention to cords at plugs, receptacles, and the point where they exit from the appliance.
12. 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.
13. Damage Requiring Service - The appliance should be serviced by qualified service personnel when:
 - A. The power supply cord or the plug has been damaged; or
 - B. Objects have fallen, liquid has been spilled into the appliance; or
 - 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.
14. 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.

Precautions:

1. Power - WARNING: BEFORE TURNING ON THE POWER FOR THE FIRST TIME, READ THE FOLLOWING SECTION CAREFULLY. All models are designed for use with either AC120V, 60Hz or AC240, 50Hz voltages. The unit will autoswitch to either of these voltages.
2. Do Not Touch The A-H1 With Wet Hands - Do not handle the AH-1 or power cord when your hands are wet or damp. If water or any other liquid enters the A-H1 cabinet, take the A-H1 to a qualified service person for inspection.
3. Care - From time to time you should wipe off the front and side panels of 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.



Model A-H4Dx
In-Wall, 4-Zone Expansion Hub
for A-BUS® System
Instruction Manual

A-BUS® SYSTEM OVERVIEW

The product you have just purchased is an integral part of the Russound A-BUS® Multi-Room Audio System. It is a component which, when combined with other essential components and your source equipment (receiver, CD player, etc.), creates a versatile whole-house audio system that will fill your rooms with high-quality sound for years to come.

A-BUS® technology is a new, innovative method of providing high quality audio to remote locations with a single 8-conductor cable such as CAT-5. A-BUS® technology provides many advantages over other methods of audio distribution, including: simple, single CAT-5 wiring scheme; infrared control of system components; infrared control of the optional A-KP2 amplified keypad module; and system power status.

Every A-BUS® System is comprised of components from each of the following three areas.

1. **A-BUS® Amplified Keypads:** The Keypad Module contains both the amplifier for the room's speakers as well as the control for those speakers. One Keypad should be used for each room you choose to control. The Russound® A-KP2 Amplified Keypad (with built-in IR receiver) and A-VC Amplified Volume Control are examples of A-BUS® Amplified Modules.
2. **A-BUS® Hubs:** All components of the A-BUS® system must be wired centrally to a Hub located near your source equipment. The Hub provides the connection for source equipment, volume controls, infrared emitters and power supply. The A-H484, A-H4, A-H4D, and A-H2 are examples of A-BUS® Hubs. The A-H484, A-H4, and A-H2 are surface-mount units. The A-H4D is an in-wall Decora® style unit.
3. **Power Supply:** The power supply plugs into the Hub. The Russound A-PS 24VDC/2.5A unit is an example.

A-BUS® is a registered trademark of LeisureTech Electronics Pty Ltd Australia
Decora® is a trademark of Leviton Corporation



AV DISTRIBUTION & CONTROL SYSTEMS

5 Forbes Rd. Newmarket, NH 03857, USA
☎ 603.659.5170 • Fax 603.659.5388
e-mail: tech@russound.com

A-H4Dx OVERVIEW

The A-H4Dx is an A-BUS® 4-zone audio distribution hub used to expand from the 4 modules connected to the A-H4D to make an 8-zone system. The typical system would consist of an A-H4D, A-PS and up to four A-BUS® amplified modules. If more than 4 A-BUS® amplified modules are needed the A-H4Dx expands the system beyond four rooms to eight total A-BUS® amplified modules. When Using the A-H4Dx expansion hub, distributing audio, IR, and status to an additional four A-BUS® amplified modules is possible.

IMPORTANT - Before installation, review the manuals included with each component in your system. If you are unsure of any of the installation procedures described herein or elsewhere, consult a professional electronics installer.

A-H4Dx KEY FEATURES

- 1) Mates to A-H4D through an expansion connection.
- 2) Incorporates individual 110 punch-down connection for up to four 4 A-BUS® amplified modules connectors.
- 3) The A-H4Dx is a single gang Decora® plate. The A-H4D and A-H4Dx will combine to create a three-gang Decora® arrangement.
- 4) 24VDC 2.5A power supply connection A-PS required for up to 4 additional amplified modules.

A-H4Dx SPECIFICATIONS

Power Supply:	A-PS. 24VDC/2.5A.
Keypad Connection:	CAT-5, 110 Punchdowns
Expansion Connection:	8-pin female connector
Dimensions:	1.65"W x 4"H x 1.5"D (42 x 103 x 37mm)
Weight:	6 oz. (170g)

LIMITED WARRANTY

The Russound A-H4Dx is fully 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. The unit must be returned to Russound at the owner's expense and with prior written permission. Accidental damage and shipping damage are not considered defects under the terms of the warranty. 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. To return for repairs, the unit must be shipped to Russound at the owner's expense, along with a note explaining the nature of the service required. Be sure to pack in a corrugated container with at least 3 inches of resilient material to protect the unit from damage in transit. 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.