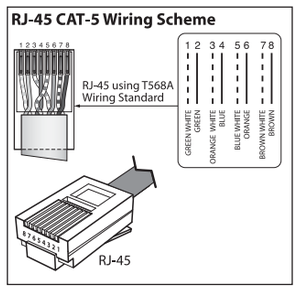
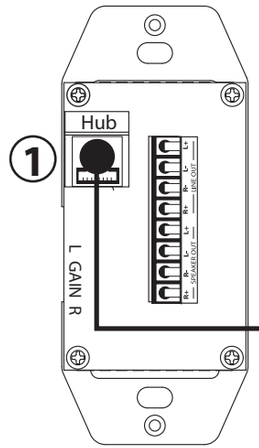
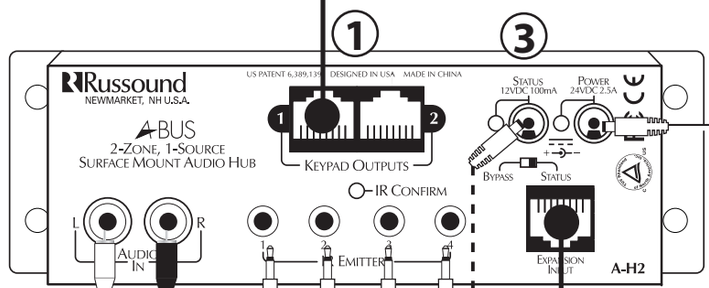
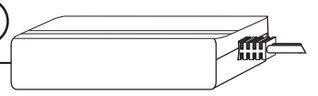
CONNECTION DIAGRAM FOR A-H2. REFER TO THE NUMBERED INSTRUCTIONS ON REVERSE. DIAGRAMS ARE NOT TO SCALE.



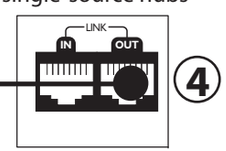


CAT-5 cable




A-PS power supply

Link ports of A-BUS single-source hubs

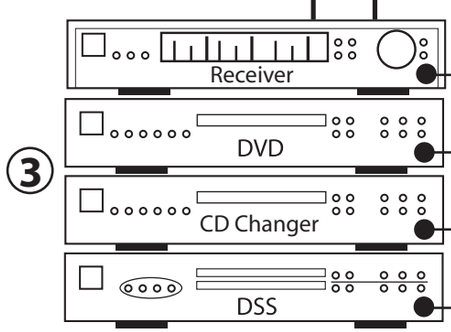


RJ45 CAT-5 patch cable

Pos (+)
Neg (–)

RCA cables

Optional Status power supply to switched AC outlet



Attach emitter to source component's IR window

Conforms to UL 6500 Certified to CAN/CSA

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.

CONNECTION INSTRUCTIONS FOR A-H2. REFER TO NUMBERED DIAGRAM ON REVERSE.

1 Amplified Keypads

Connect two A-BUS amplified keypads. A CAT-5 cable is used to connect A-K4 to a keypad output on the A-H2 Hub. For clean installations, use RJ-45 CAT-5 patch cables to connect from the hub to an RJ-45 wall plate (optional), and wire from the wall plate to the keypad. The A-K4 has an RJ-45 connector with T568A wire configuration.

2 IR Emitters

Common IR Outputs. Connect an IR emitter such as the 845.1 to each of the 4 IR connectors on the A-H2 (you need use only one IR emitter if you've connected a single source directly to the A-H2). The IR signal that is received through a zone's amplified keypad is routed to the A-H2's Common IR outputs. This allows remote operation of sources such as CD, DVD or DSS from each zone.

3 Status

The Status option provides visual indication when source equipment is powered on and permits a system-wide 'all off' function.

To enable Status:

Move the status jumper on all amplified keypads to the "Enabled" position.

Move the status switch on the hub to the "STATUS" position.

Using a Russound 846C 120V/12VDC or comparable power adapter, connect the coaxial plug end to the STATUS input on the hub, and plug the adapter into a switched AC outlet on the source component.

Status function and operation:

When the source is powered on, the Status circuit is powered by 12VDC and turns the keypad's Status LED to green. This indicates to the user that the source is on and ready to receive remote control commands.

When the source is powered off (remotely or manually), it shuts off the 12VDC Status power connected to it, and turns off all the keypads (green LED off) connected to the hub.

IMPORTANT: When the status feature is enabled, it must be supplied with power for proper operation with accessories such as the A-LC3 Local Source Input Module.

4 Expansion Input

The Expansion Input is used to connect the A-H2 with an RJ-45 patch cable to other A-BUS single-source hubs or to an A-BUS-Ready product to increase the number of rooms in a system. The Expansion Input connects the Common IR, Status, and the audio source signal. Single-source A-BUS Hubs such as A-H4, A-H4P and A-H1 all use the same format for linking. The A-H484 multisource Hub is different and cannot be linked to single-source hubs in this manner.

The Link Out or A-BUS Ready subzone output of one device must be connected to the Link In (Expansion Input of A-H2) of the subsequent device. NEVER connect the Link Out to another Link Out or A-BUS Ready output. This may damage the components and void the warranty. NOTE: Each hub in the chain requires its own A-PS power supply.

5 Source

The A-H2 has one stereo audio input, and it can be connected to multiple audio sources via the Tape 2 or Zone 2 output of a stereo or home theater receiver. Connecting to a receiver gives the A-H2 access to any audio source connected to that receiver. Alternatively, a single audio source can be connected directly to the A-H2.

6 Power Supply

The A-H2 hub and amplified keypads are powered by the A-PS 24VDC/2.5A power supply. The A-PS should be plugged into an unswitched AC outlet (one that is live all the time). When the A-PS is providing power, the A-H2's POWER LED will illuminate.

7 Operation

A-K4 keypads can be operated manually or by using the A-LRC2 remote control. If using installed IR emitters, sources can be operated with their own remote control by aiming it at the IR window on an A-K4 keypad.

8 Installation

Install the A-H2 near the system's source equipment using screws or hook and loop fastener.

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A-BUS is a registered trademark of LeisureTech Electronics Pty Ltd Australia. This product may be covered by one or more of the following patents: US #7,181,023, #6,389,139; EP #1004222, AU #739808, NZ #502982, Mexico #241196, Canada #CA2301062.

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. Heat - The appliance should be situated away from heat sources such as radiators, heat registers, stoves, or other appliances (including amplifiers) that produce heat.
8. 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.
9. Grounding or Polarization - Precaution should be taken so that the grounding or polarization means of an appliance is not defeated.
10. 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.
11. Damage Requiring Service - The appliance 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 appliance
    The appliance has been exposed to rain
    The appliance does not appear to operate normally
    The appliance has been dropped or enclosure is damaged.
12. 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.
13. Care – From time to time you should wipe off the front panel with a soft dry cloth.

Limited Warranty

The Russound A-H2 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. 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 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.

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28-1134 Rev. 5 06/05/13

Russound®

A-BUS®

A-H2

Two-zone Hub for A-BUS® System

Installation Manual

A-H2 Overview

The Russound A-H2 is a two-zone, one-source audio distribution hub used with A-BUS amplified keypads. The A-H2 can also be linked to other A-BUS hubs (such as the A-H4) and to A-BUS Ready stereo receivers in order to increase the number of zones in a system.

NOTE: Before installation, review the manuals included with each component in the system.

A-H2 Features

- Compact size for mounting near audio equipment
- Status power input with LED indicator and selector switch
- Stereo audio input
- Power input with LED indicator
- Expansion input
- 4 common IR outputs, with confirmation LED indicator

A-H2 Specifications

Power Supply:	A-PS, 24VDC, 2.5A
Status Power:	12VDC, 100mA
Keypad Connection:	CAT-5, RJ-45 connector, T568A
Expansion Connection:	CAT-5, RJ-45 connector, T568A
IR Emitter Connection:	1/8" male, tip (+), sleeve (-)
Dimensions:	6.5"W x 2"H x 1.25"D (165 x 51 x 32mm)
Weight:	9.5 oz. (270g)