



## CHANNEL VISION AB-203 A-BUS Audio System Instructions

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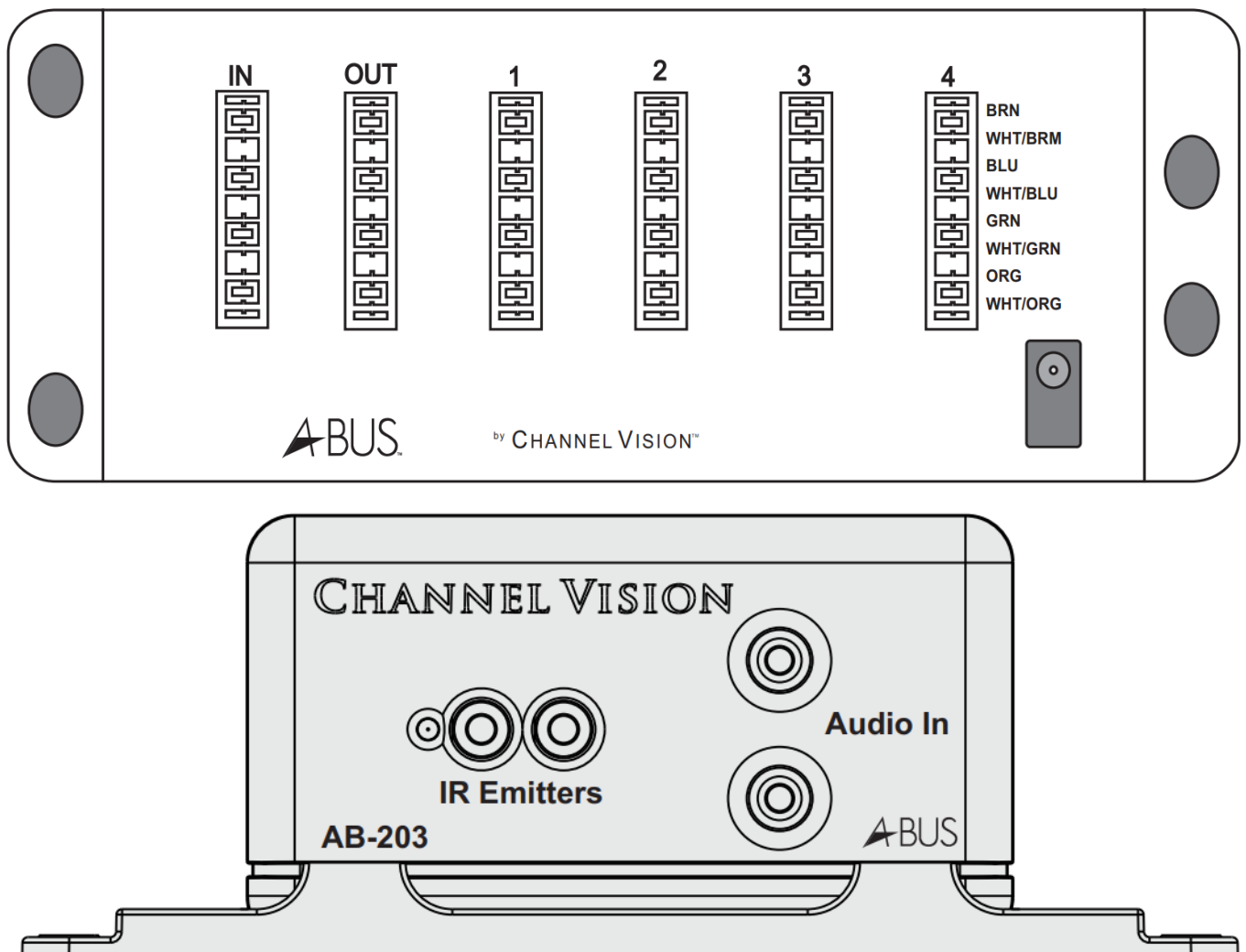
### CHANNEL VISION AB-203 A-BUS Audio System

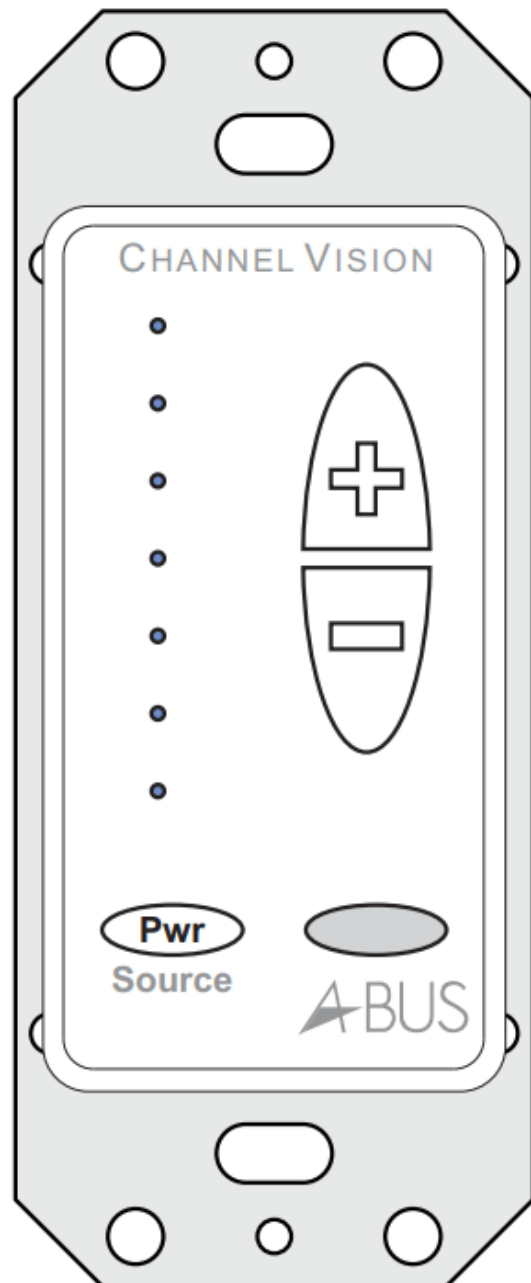
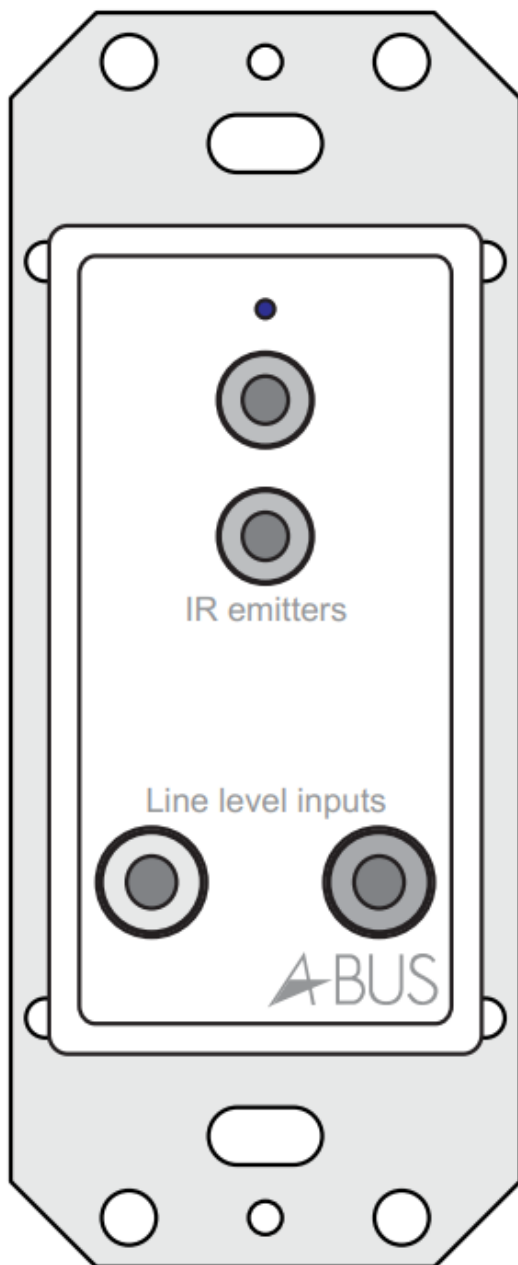


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## Product Description





## Channel Vision A-BUS Audio system

**The Channel Vision A-BUS Audio system** can distribute high-quality audio to every room in your house over ordinary CAT5 data wire. Power for the entire system is delivered via the same CAT5 cable so only a single run of CAT5 is required. Each pair of speakers is powered and controlled from a local wall plate with a dedicated amplifier for that zone. Volume in that zone can be controlled manually or by an infrared remote. IR signals are also routed back to the source components enabling control of sources and functions from any zone.

### Features:

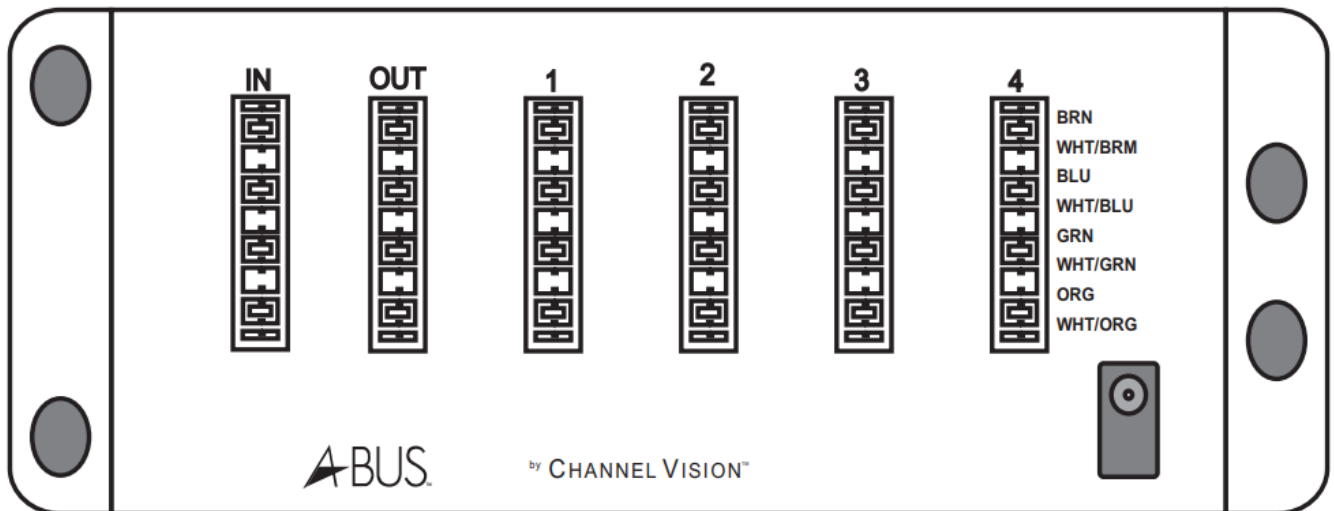
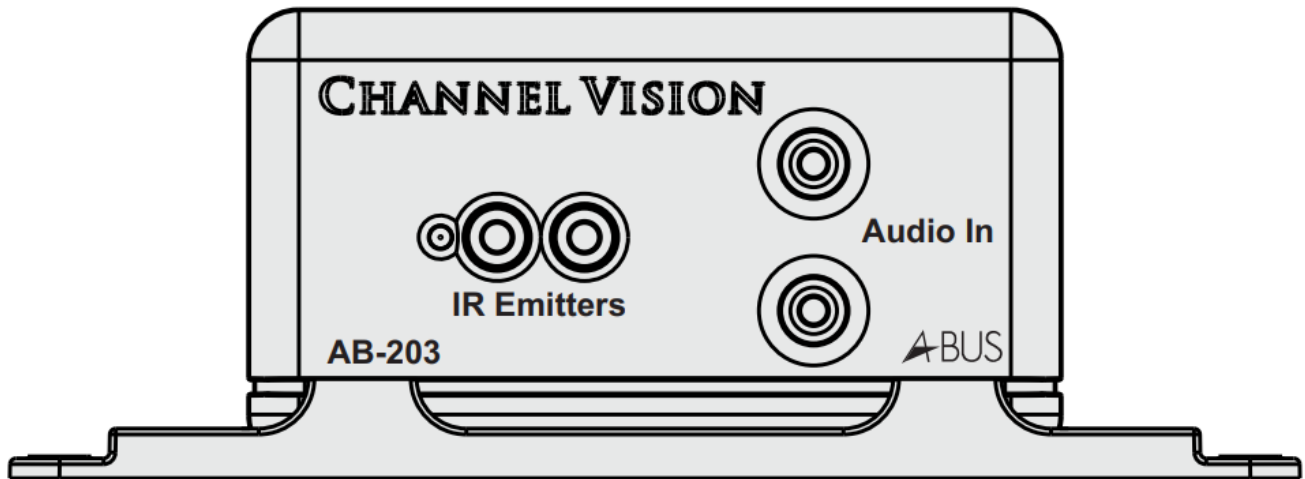
- A Independent volume control in each room
- A Built-in IR repeating
- A Local audio input capability
- A Easy installation and setup

### Required components

All items sold separately except where noted

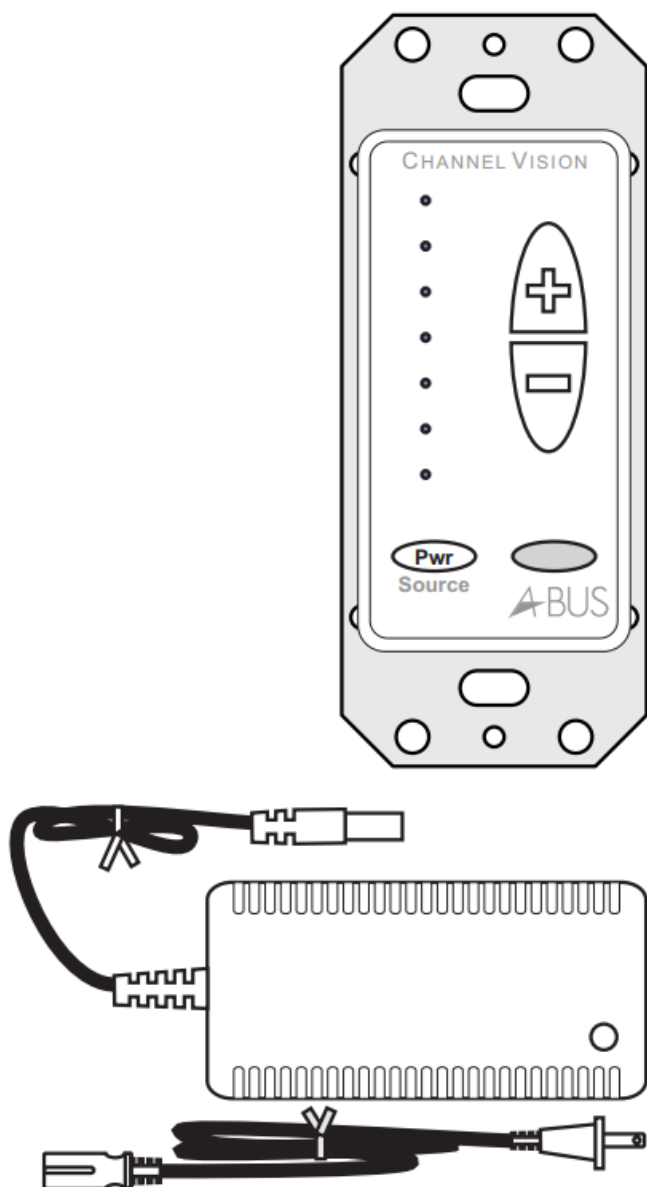
**AB-203 or AB-202** ... Single Source Module. One per system; Connects sources to the system; Mount the unit near audio components (CD player, receiver, etc.).

**AB-404** ... Distribution Module. One unit required for every 4 amplified keypads; All CAT5 cables terminate here; Inserts power into system; Mount it in a structured wire enclosure or screw it to a wall; Compatible with enclosures from TM @ Channel Vision Central , OpenHouse , @ @ OnQ/Legrand or Leviton .



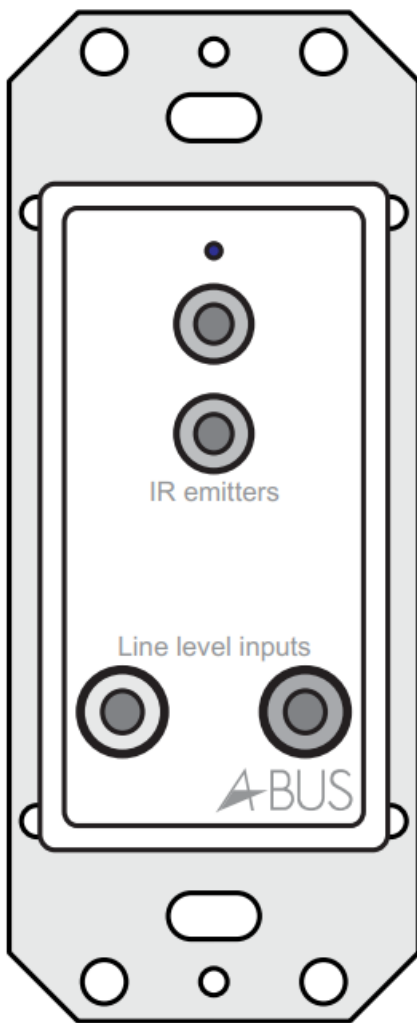
**AB-124** ... Multi-source Amplified Keypad. One per speaker pair. Drives the speakers, controls volume and relays IR information. Mount the AB-124 in single gang low-voltage ring or deep Jbox (if required by code). Blue LEDs show volume level. Pwr button allows the keypad to be turned off and it can be used to select sources when in multisource mode.

**AB-T2454** ... Power supply. One is needed for every AB-404. 120-240VAC

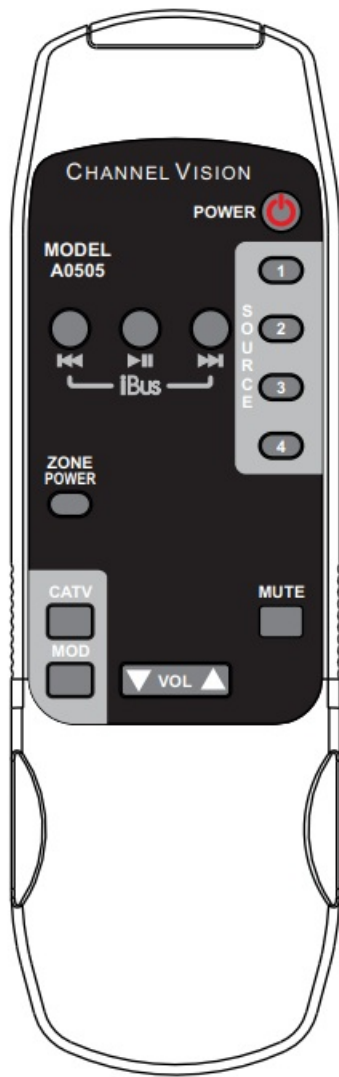


### Optional Components

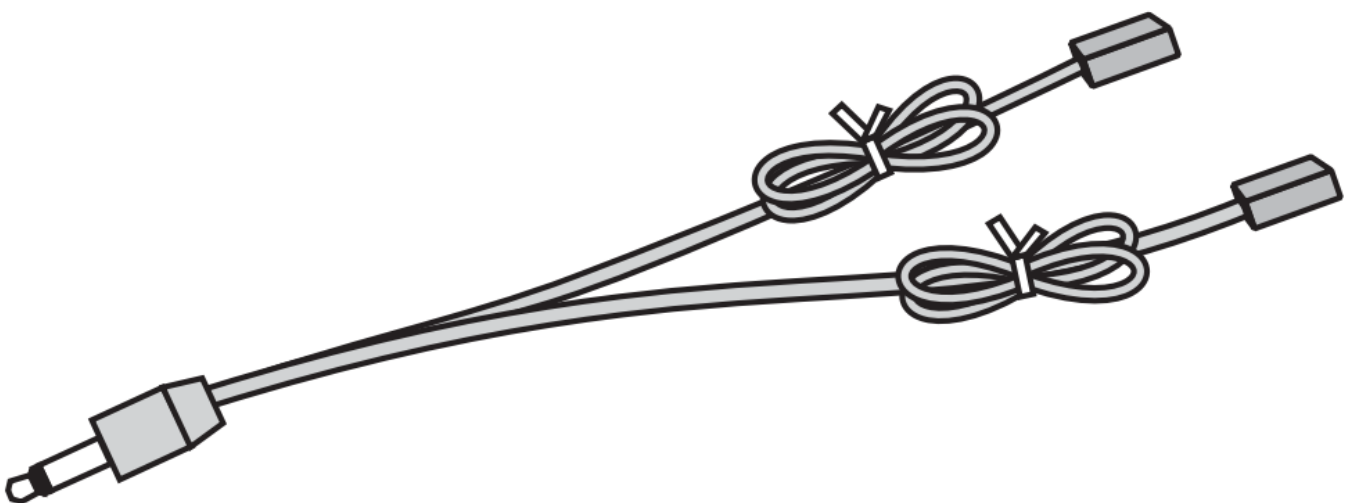
**AB-301 ...** Universal input module. This can be used to provide local source input in any room and/or to replace the AB203. The AB-301 is a great way to enable simple connection of local sources into the zone – TV's, MP3 players, computer sources, etc.



**A0505** ... Remote control. Designed to control the AB-124 as well as Channel ® Vision's popular iBus wall docks.



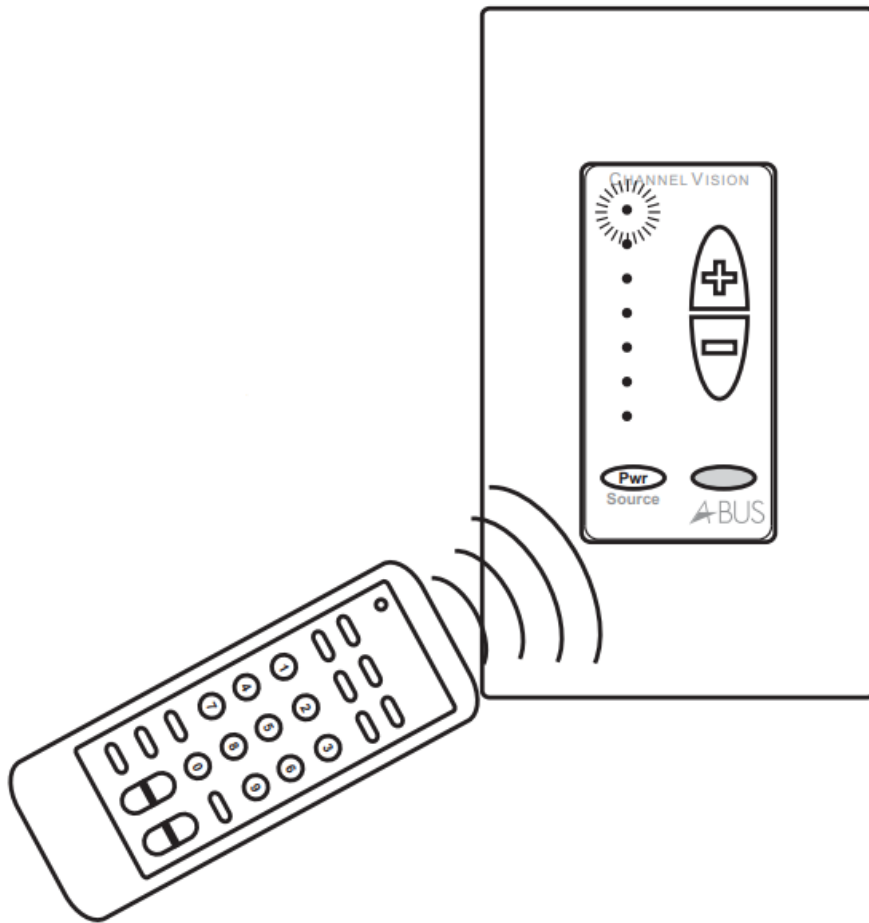
**IR-3001 & IR-3002** ... Single and dual head IR flashers. Use one head per source to control from the remote room. (IR-3002 shown).



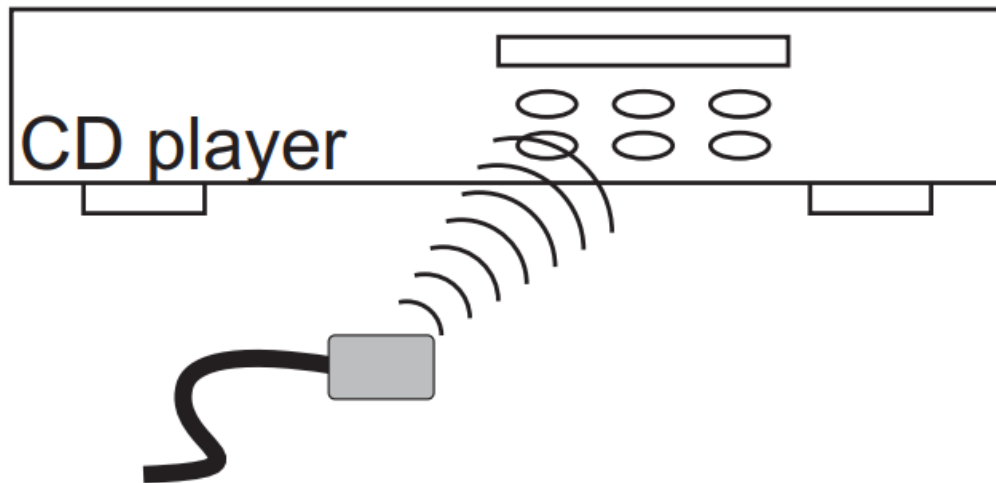
### How IR Repeating Works

The top LED flashes as IR information is received.

Point any IR remote control at the AB-124



The emitter repeats the IR signal in the other room.

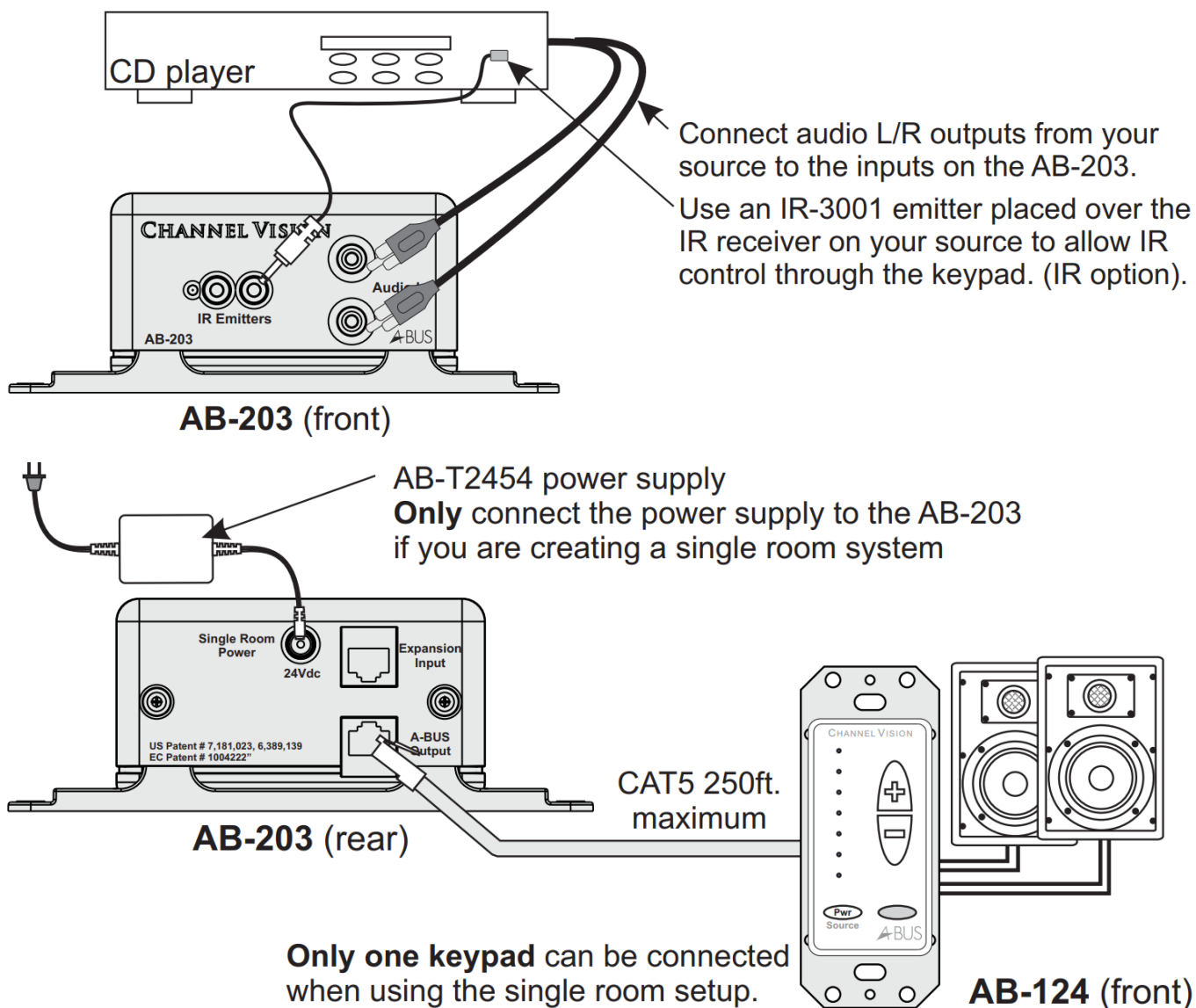


Be sure the flasher is attached directly over the component's IR receiver.

### Single Room Diagram

In some cases it may be desirable to create a single room system that allows a source component to play through in-wall speakers. The AB-203 and AB-T2454 can be used together to supply audio and power to a single AB-124 keypad.





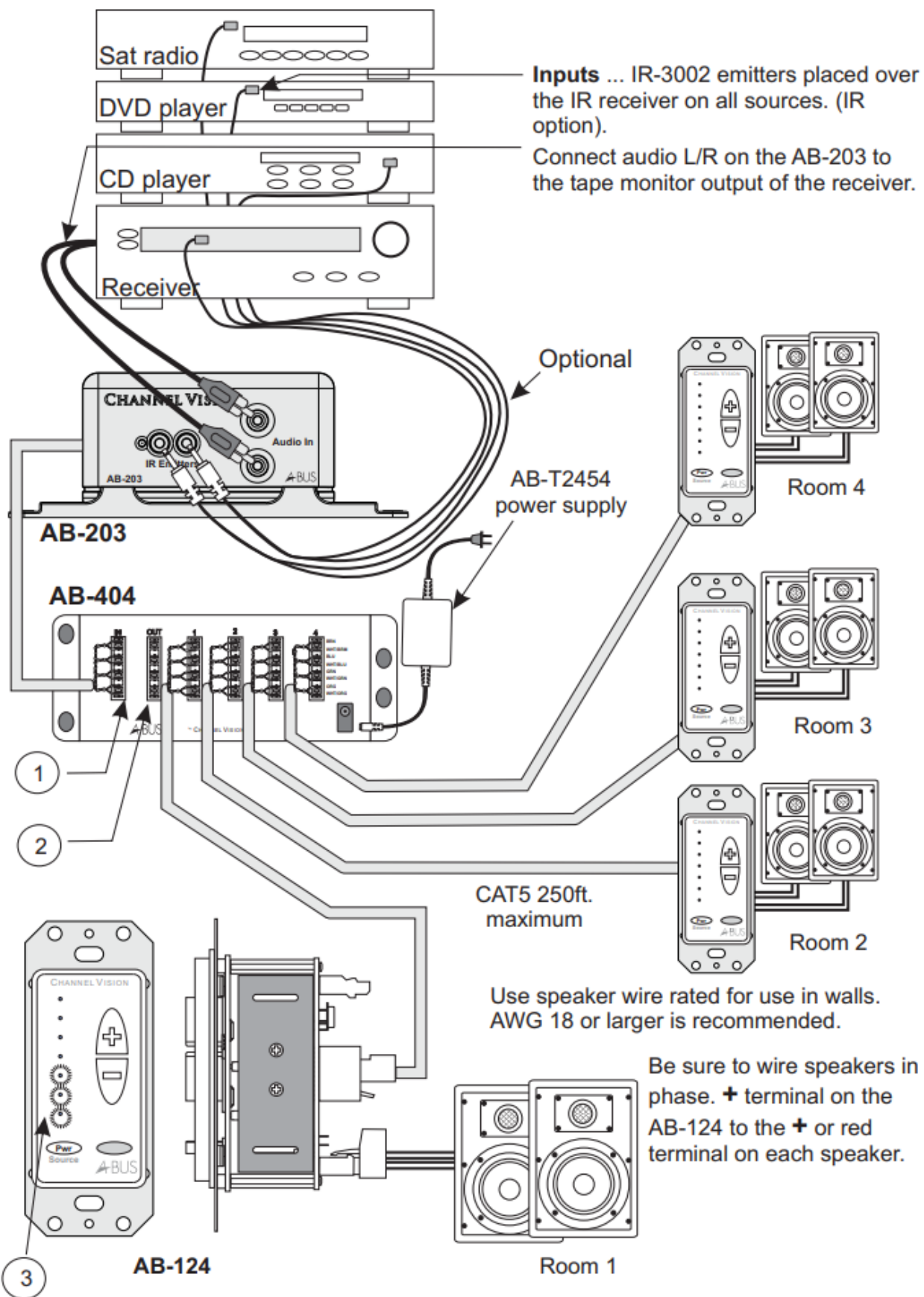
### Basic System (see below)

In this system four rooms listen to the same audio program. Each room has independent volume controls. This is a single source system. All speakers play the same audio. Using the IR option, you can control the components from any room. You can change the system input from FM to the CD player, select another satellite radio station, or pause the CD.

(See corresponding numbers on opposite page)

1. **CAT5 cables** ... Follow the color codes as shown on the connectors and maintain the stripe/solid sequence shown here. Use 110 punch down tool only. (Never use a screwdriver to punch down UTP wires. It will cause intermittent connections and damage or destroy the 110 connector.)
2. **Loop out** ... Use this to expand to an additional AB-404. This connector only provides audio signals to an additional AB-404. It cannot be used to directly connect a fifth AB-124 to the system.
3. **Volume indicators**... The LEDs indicate the volume level. If the Status is , the LEDs will be dark. Pressing the UP/DOWN keys will light the LEDs for a short period to show the stored volume level.

### Basic System Diagram



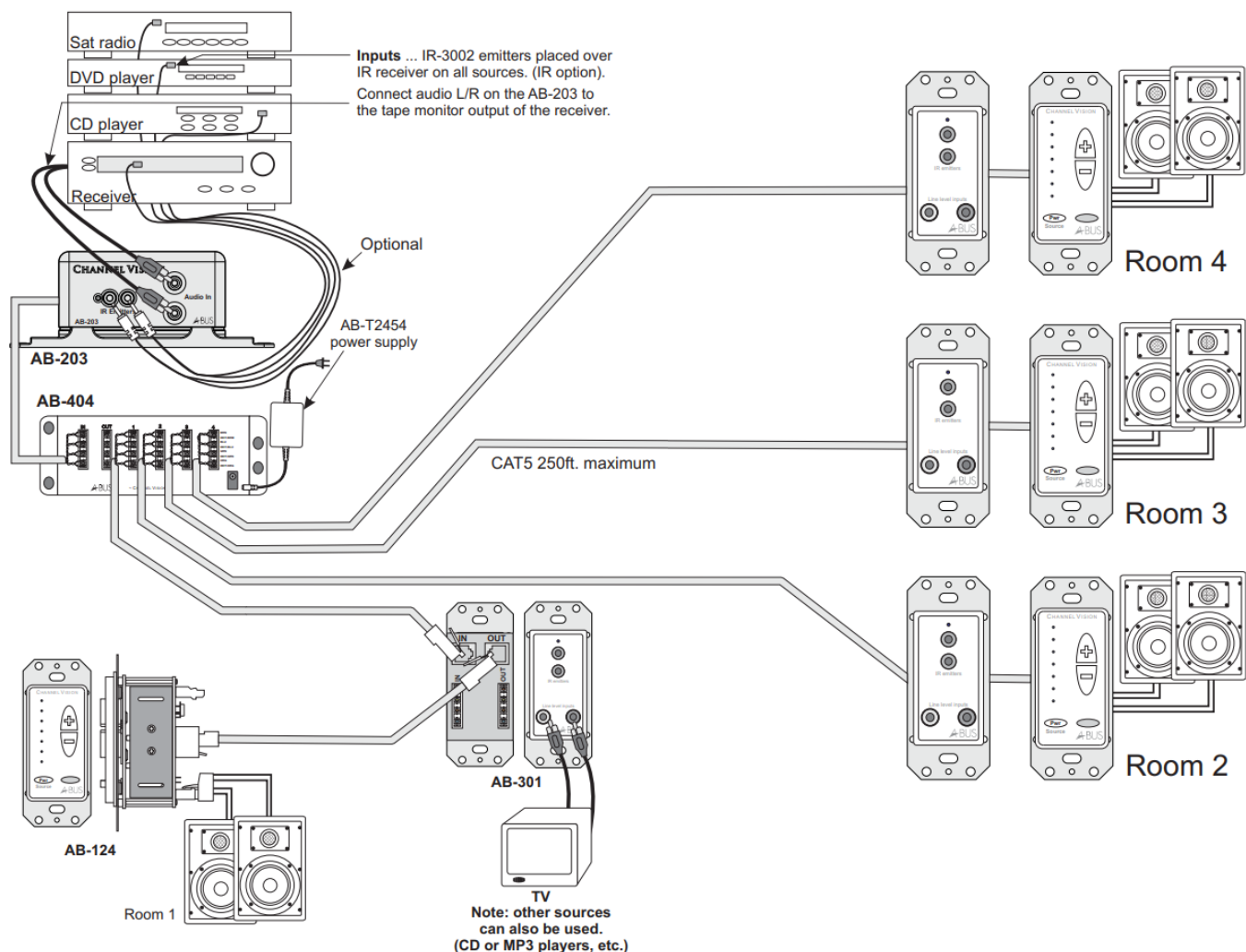
## Advanced System

### Using the AB-301 as a local source input module

**Each room can listen to a different local source.**

The RCA inputs on the AB-301 will override the main input source, allowing each room to listen to a different local

source.



### Using the AB-301 as a local source input:

In this configuration, the AB-301 will sense audio coming from the TV and interrupt the audio coming from the AB-404 whenever the TV audio is present. This will allow the TV audio to be heard through the in-wall speakers controlled by the AB-124.

### Using the AB-301, AB-315 input module

#### In This System

The first AB-301 is used to input the main audio source. The AB-315 is an iPod® docking station that allows music from the iPod to override the main source. The AB-315 can be used as the main system input module and/or in each individual room to input audio that will only be heard in that room's speakers. Using the IR option, you can control the components from any room. You can change the system input from FM to the CD player, select another satellite radio station, or pause the CD. The AB-301 and AB-315 are activated by audio. The system mutes and conserves power whenever there is no audio feeding the AB-301 or AB-315. When audio is present, all amplified keypads return to the last volume level.

### The Paging Option

An additional AB-301 or AB-203 can be installed in the CAT5 between the main audio input module(s) and the AB-404. If another audio source, such as the output from a paging system, is sensed it will interrupt the audio from the main input module(s), allowing a page announcement to be distributed to all of the rooms. This is perfect for

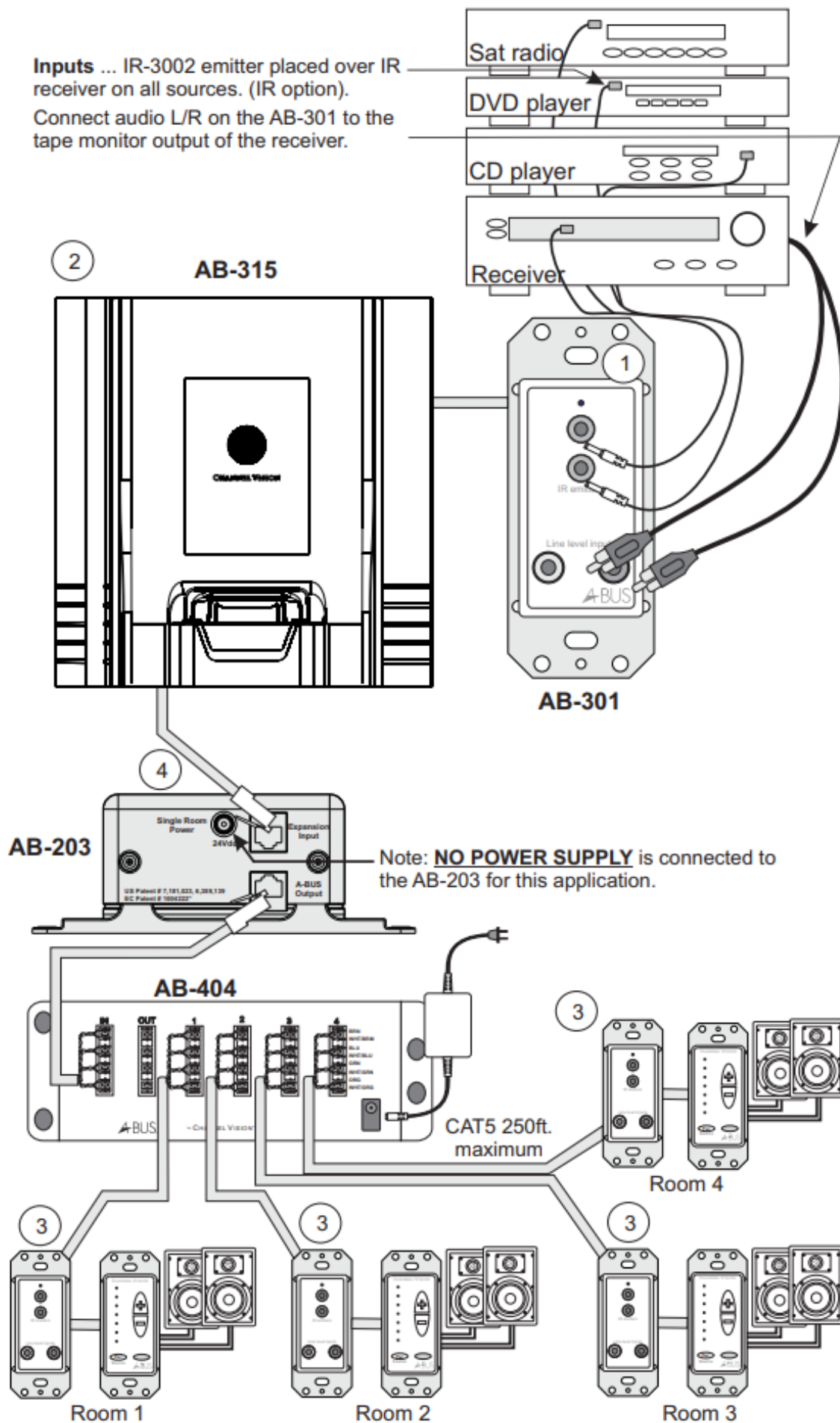
phone systems that provide a line level output for paging.

### **Independent Room Inputs**

The AB-301 in each individual room will interrupt all audio sources coming from the main system inputs. This includes the audio from a paging system. Therefore, if any of the rooms are using their individual AB-301 they will not hear any announcements until they turn off the audio from their local source.

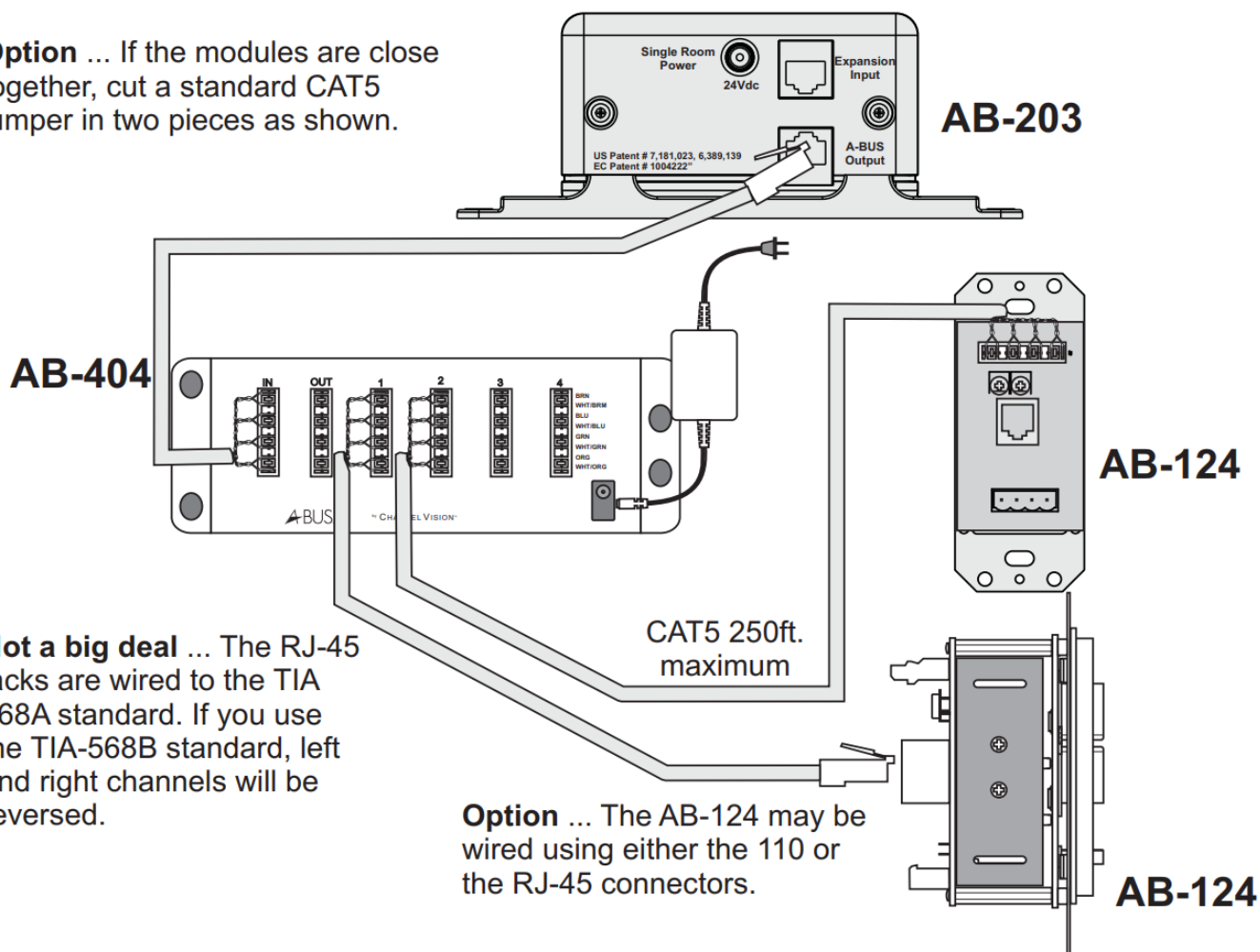
**\*Note:** The AB-315 is an iPod docking station with IR control compatibility. When using the iBus buttons on the A0501, A0502, or A0505 remote control it is possible to operate all of the commands available on the iPod wheel such as play/pause and fwd/rev.

**Inputs** ... IR-3002 emitter placed over IR receiver on all sources. (IR option).  
Connect audio L/R on the AB-301 to the tape monitor output of the receiver.



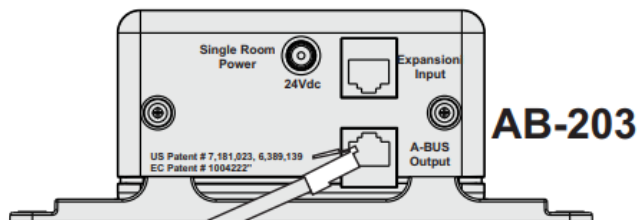
## CAT5 Wiring Details and Options

**Option ...** If the modules are close together, cut a standard CAT5 jumper in two pieces as shown.



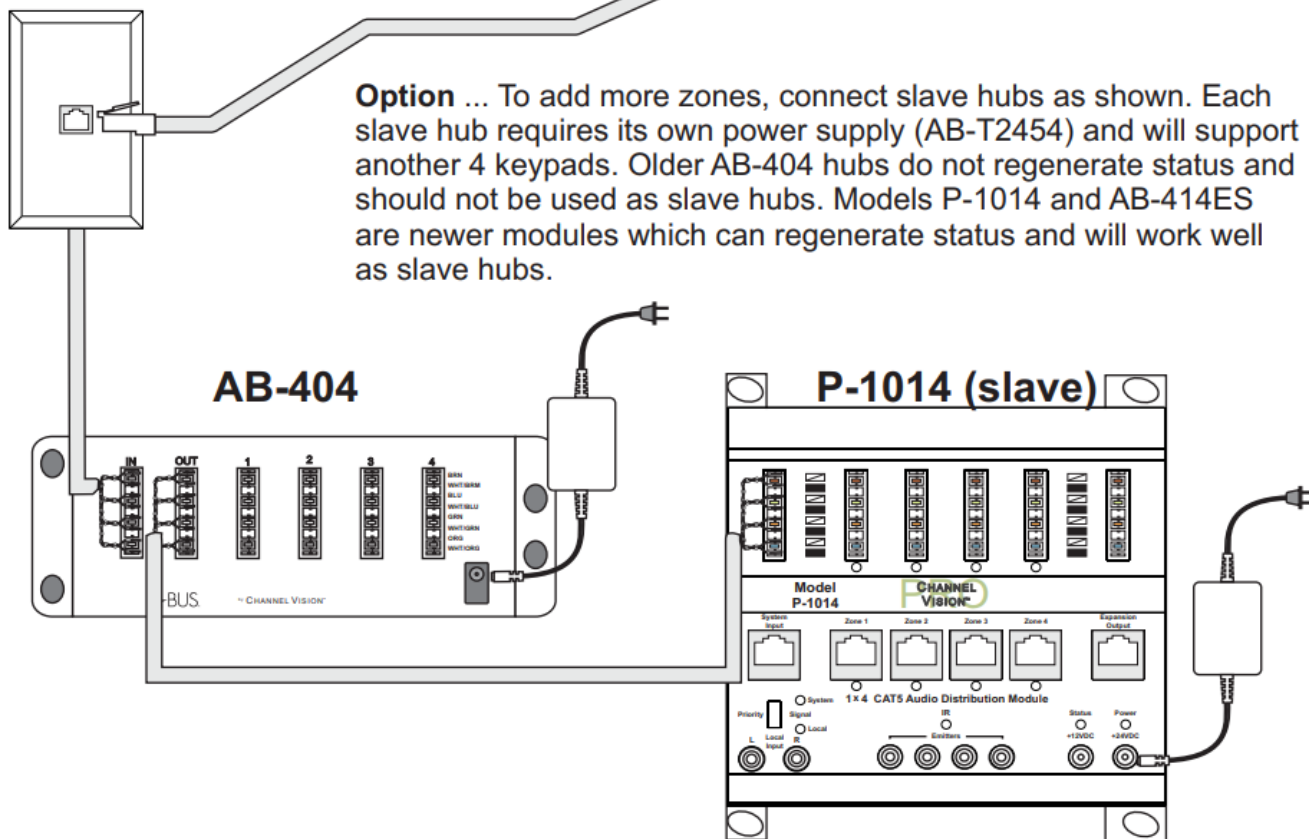
**Not a big deal ...** The RJ-45 jacks are wired to the TIA 568A standard. If you use the TIA-568B standard, left and right channels will be reversed.

**Option ...** Use CAT5 jack to terminate cable from AB-404 and standard CAT5 jumpers to connect AB-203.



**AB-203**

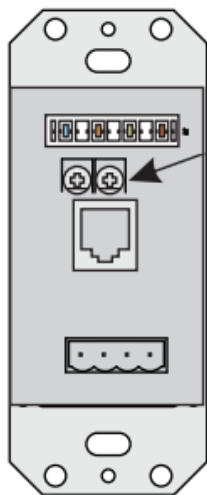
**Option ...** To add more zones, connect slave hubs as shown. Each slave hub requires its own power supply (AB-T2454) and will support another 4 keypads. Older AB-404 hubs do not regenerate status and should not be used as slave hubs. Models P-1014 and AB-414ES are newer modules which can regenerate status and will work well as slave hubs.



**AB-404**

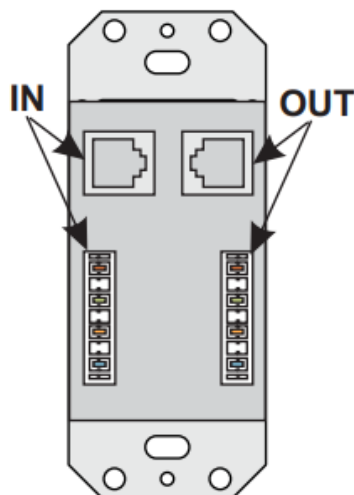
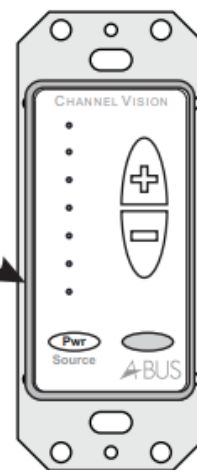
**P-1014 (slave)**





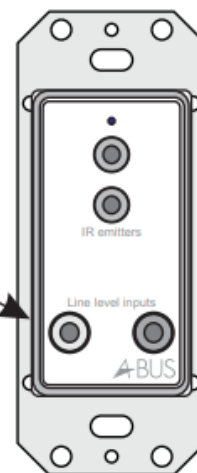
**Balance ...** The two potentiometers on the AB-124 adjust the volume levels of each speaker channel. Use these to adjust the speaker balance in this zone.

**Gasket ...** The AB-124 is shipped with a gasket. This allows you to adjust the height and fit of a decorator trim plate. Leave the gasket as is for a flush fit. Remove the gasket to have the AB-124 stand above the plate.



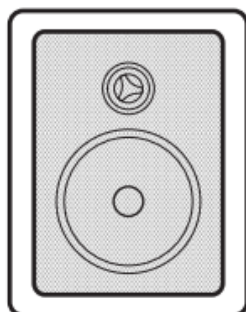
**Input/Output ...** To simplify installation, the AB-301 has both 110 and RJ-45 inputs and outputs. Only one of the inputs and one of the outputs should be used at a time.

**Gasket ...** The AB-301 is shipped with a gasket. This allows you to adjust the height and fit of a decorator trim plate. Leave the gasket as is for a flush fit. Remove the gasket to have the AB-301 stand above the plate.



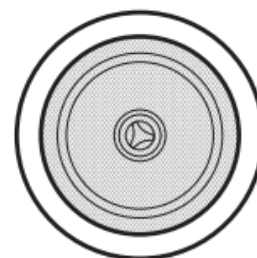
## Suitable Speakers

Channel Vision offers a variety of multi-room speakers.



**IW614**

In-wall *Soprano* series  
6.5" speaker



**IC614**

In-ceiling *Soprano* series  
6.5" speaker

### Trouble?

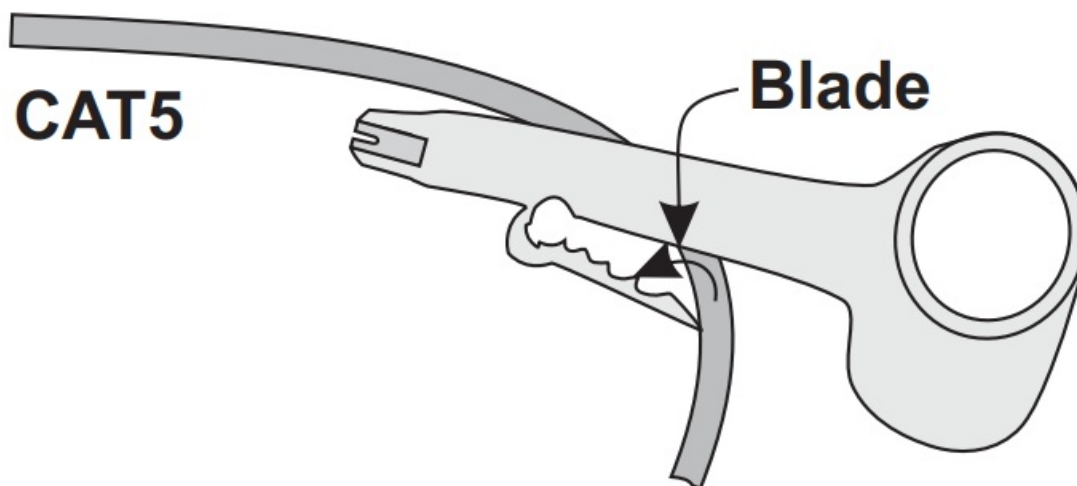
1. Be sure you have connected the CAT5 cable correctly. Note that the stripe/solid pattern should match the labels on the product. Miss-wiring can cause distorted sound or prevent the system from working at all!
2. Be sure you have connected the speakers in phase. Follow the label on the product. Out of phase speakers can rob the system of its bass. Especially when driving dual-voice-coil speakers.
3. Be sure IR emitters are directly over the IR receiver for all devices you wish to control.

### Stripping and Connecting CAT5 Wire

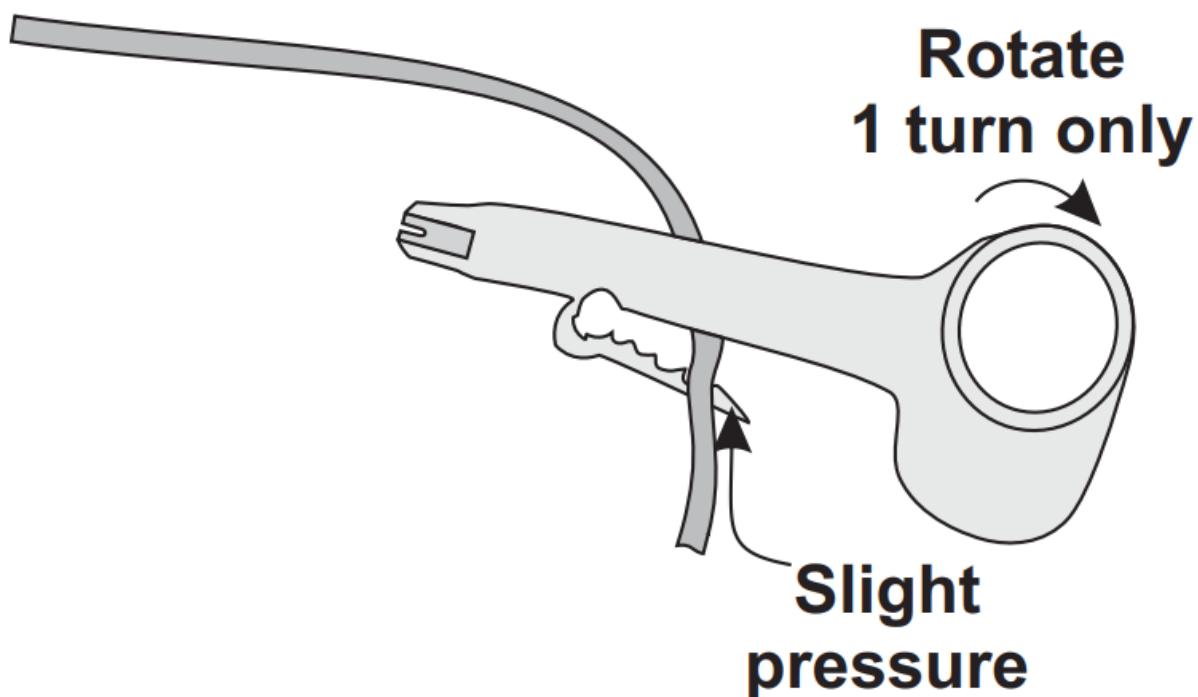
CAT5 cable should be stripped with a proper stripping tool, such as Channel Vision's J-110 tool.



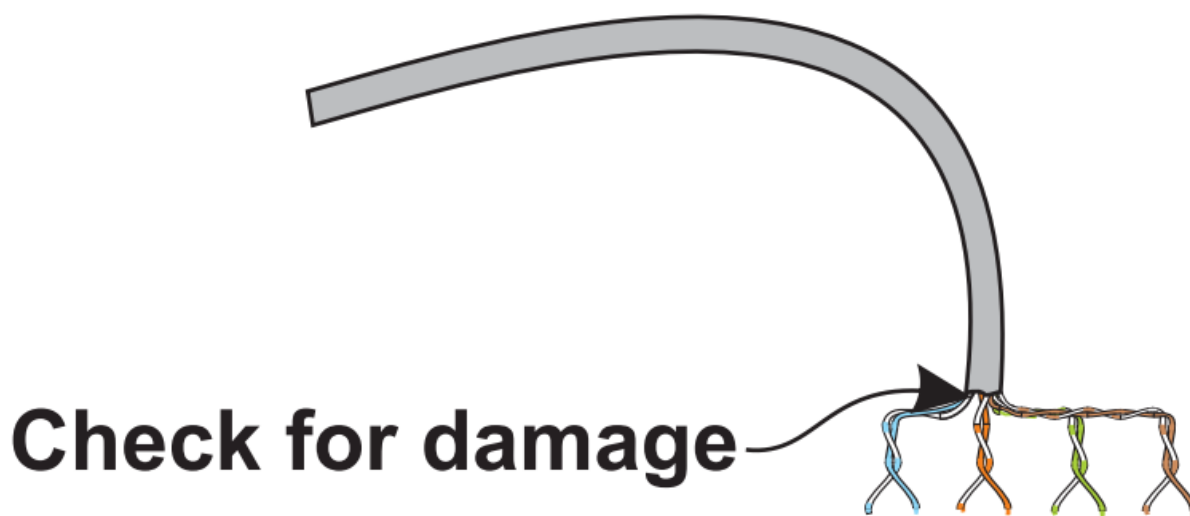
1. Place the CAT5 between the blade and the first notch of the J-110 tool.

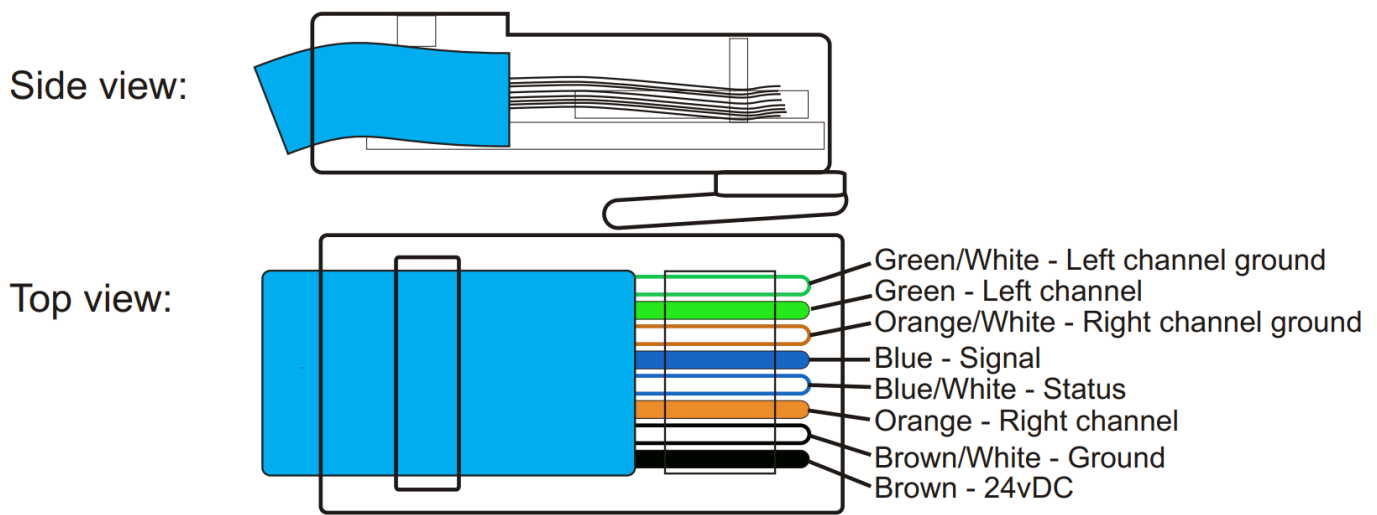


2. Rotate the tool only once. Multiple turns could damage the inner wires.



3. Inspect the inner wires for damage. If any wires are cut start over at step 1.





**System Specifications:** (typical @25° C)

**Operating Voltage :** 24±.5VDC

**Cable requirements:** CAT-5 or better

**Max CAT5 length:** 250ft

**Speaker impedance:** 6-8 ohm

**IR repeating:** 30-60kHz

**IR sensor range (AB-124):** 40'@40kHz 25'@56kHz

**Operating Temperature:** -10°C to +50°C

Specifications subject to change without notice.

## Warranty

### 1 Year Limited Warranty

Channel Vision Technology will repair or replace any defect in material or workmanship which occurs during normal use of this product with new or rebuilt parts, free of charge in the USA, for one year from the date of original purchase. This is a no hassle warranty with no mail in warranty card needed. This warranty does not cover damages in shipment, failures caused by other products not supplied by Channel Vision Technology, or failures due to accident, misuse, abuse, or alteration of the equipment. This warranty is extended only to the original purchaser, and a purchase receipt, invoice, or other proof of original purchase date will be required before warranty repairs are provided. Channel Vision products are not intended for use in medical, lifesaving, life sustaining or critical environment applications. Channel Vision customers using or selling Channel Vision products for use in such applications do so at their own risk and agree to fully indemnify Channel Vision for any damages resulting from such improper use or sale.

Mail in service can be obtained during the warranty period by calling (714) 424- 6500. A Return Authorization number must be obtained in advance and can be marked on the outside of the shipping carton.

This warranty gives you specific legal rights and you may have other rights (which vary from state to state). If a problem with this product develops during or after the warranty period, please contact Channel Vision Technology, your dealer or any factory-authorized service center.

Apple and iPod are trademarks of Apple, Inc., registered in the U.S. and other countries.

A-BUS is a registered trademark of LeisureTech Electronics Pty Ltd. This product may be covered by one of the following patents: US patent no. 7,181,023, 6,389,139 EP 1004222, AU 739808, NZ 502982, Mexico Z41196, Canada CA2301062.

iBus is a registered trademark of Channel Vision Technology.

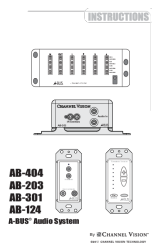
## Customer Support

234 Fischer Avenue, Costa Mesa, California 92626 USA (714)424-6500 (800)840-0288 (714)424-6510 fax  
email: [techsupport@channelvision.com](mailto:techsupport@channelvision.com)

# By CHANNEL VISION™

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## Documents / Resources

	<p><a href="#">CHANNEL VISION AB-203 A-BUS Audio System</a> [pdf] Instructions AB-203 A-BUS Audio System, AB-203, A-BUS Audio System, BUS Audio System, Audio System</p>
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## References

-  [Manual-Hub.com - Free PDF manuals!](#)
- [User Manual](#)

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