

2. Connect IR receivers in each room to the 4-conductor home runs as shown, using the 4-conductor terminal strip supplied.
Note: To connect an IRC-3.0 as shown in Room 3, you will need to cut off the 4-conductor plug, strip the leads and make connections to the inter-room wire using a 4-conductor terminal strip (not supplied), as shown. See also Fig. 1 for wire color identification. Contact SpeakerCraft Technical Support to obtain the terminal strip.
3. Connect the home run wires to the correct terminals on the AT-1.0 EZ-Connect terminals.
Note: You may use the SpeakerCraft **CB Connecting Block** (not illustrated, stock # ASM20200) to help connect the many paralleled home run wires to the AT-1.0 EZ-Connect terminals.
4. Install and plug the various emitters into the AT-1.0.
5. Set the DIP switches to EM ON (or BL ON if using Blasters behind closet doors) and NET ON.
6. Plug the local IRC-3.0-ALR IR Receiver into the IR RCVR jack.
7. Plug in the PS-1.0 12V DC Power Supply.
8. A remote control, fired at the IR receivers, should now control the components.

Note: Refer to the SpeakerCraft AT-1.0 Instructions for Power Supply considerations.

STATUS Brightness

Fig. 3 also shows how an external resistor can be added to reduce the brightness of the Status LED's on SpeakerCraft IR Receivers to any desired level.

In this example, a PS-1.0 12V DC Power Supply is used as the voltage source to indicate the ON/OFF status of an A/V Receiver.

Choose a resistor value that achieves the brightness you desire (about 2.2k to 12k, 1/8 W). Connect it in series with the STATUS lead on each IR receiver desired, as shown.

LIMITED 5-YEAR WARRANTY

SpeakerCraft Inc. warrants to the original retail purchaser only that this SpeakerCraft product will be free from defects in materials and workmanship, for a period of 5-years, provided it was purchased from a SpeakerCraft Authorized Dealer.

Defective products must be shipped, together with proof of purchase, prepaid insured to the SpeakerCraft Authorized Dealer from whom they were purchased, or to the SpeakerCraft factory at the address listed on this installation instruction manual. Freight collect shipments will be refused. It is preferable to ship this product in the original shipping container to lessen the chance of transit damage. In any case, the risk or loss or damage in transit is to be borne by the purchaser. If upon examination at the Factory or SpeakerCraft Authorized Dealer it is determined that the unit was defective in materials or workmanship at any time during this warranty period, SpeakerCraft or the SpeakerCraft Authorized Dealer will, at its option, repair or replace this product at no additional charge, except as set forth below. If this model is no longer available and can not be repaired effectively, SpeakerCraft, at its sole option may replace the unit with a current model of equal or greater value. In some cases where a new model is substituted, a modification to the mounting surface may be required. If mounting surface modification is required, SpeakerCraft assumes no responsibility or liability for such modification. All replaced parts and product become the property of SpeakerCraft Inc. Products replaced or repaired under this warranty will be returned to the original retail purchaser, within a reasonable time, freight prepaid.

This warranty does not include service or parts to repair damage caused by accident, disaster, misuse, abuse, negligence, inadequate packing or shipping procedures, commercial use, voltage inputs in excess of the rated maximum of the unit, or service, repair or modification of the product which has not been authorized or approved by SpeakerCraft. This warranty also excludes normal cosmetic deterioration caused by environmental conditions. This warranty will be void if the Serial number on the product has been removed, tampered with or defaced.

This warranty is in lieu of all other expressed warranties. If the product is defective in materials or workmanship as warranted above, the purchaser's sole remedy shall be repair or replacement as provided above. In no event will SpeakerCraft be liable for any incidental or consequential damages arising out of the use or inability to use the product, even if SpeakerCraft Inc. or a SpeakerCraft Inc. Authorized Dealer has been advised of the possibility of such damages, or for any claim by any other party. Some states do not allow the exclusion or limitation of consequential damages, so the above limitation and exclusion may not apply. All implied warranties on the product are limited to the duration of this expressed warranty. Some states do not allow limitation on the length of an implied Warranty. If the original retail purchaser resides in such a state, this limitation does not apply.

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LIT01301 (rev1)
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SmartPath™

IRC-3.0-ALR

**Shelf Top Infrared Receiver
 with Plasma Ambient Light Restrictor**

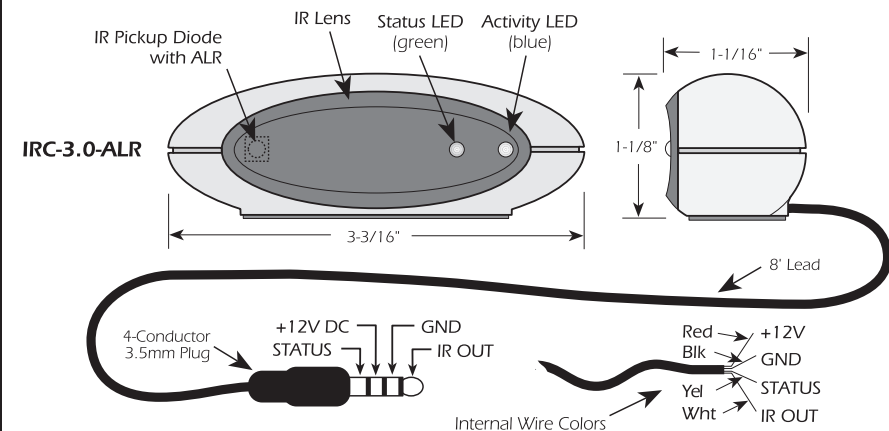
INSTALLATION INSTRUCTIONS

The IRC-3.0-ALR IR Receiver has the same features as the non-ALR IRC-3.0, except for the addition of a built-in Ambient Light Restrictor.

The exclusive Ambient Noise Suppressor circuit used in the non-ALR IRC-3.0 will handle all types of noise and effectively reduces such noise to an acceptable level. However, in certain cases, the random strength of the pulsed IR noise from plasma displays, with scene changes, will cause too much noise to pass to the controlled component, resulting in intermittent response to IR commands. Using the IRC-3.0-ALR instead will solve this problem.

While using the ALR version narrows the reception angle to about $\pm 30^\circ$ and reduces the range somewhat, it will prevent the plasma screen IR noise from interfering with system IR commands.

Fig. 1



FEATURES/SPECIFICATIONS

- The IRC-3.0-ALR has a unique 3.5mm quad plug for direct plug-in to SpeakerCraft Terminators. It accommodates STATUS as well as IR, Power and Gnd connections.
- Exclusive Ambient Noise Suppressor (ANS) system and Ambient Light Restrictor (ALR).
- STATUS Indicator: Green LED for System On/Off indication.
- ACTIVITY Indicator: Blue LED indicates IR signal activity in a completed circuit with a Terminator or an Emitter.
- Requires Power Supply, Terminator Block and Emitters for IR Repeater operation.
- Mounting: Can be placed on any flat surface. A special pad protects the surface on which you set the IRC-3.0-ALR in addition to providing anti-skid action.

- Power: 12V DC @ 6 mA. Supplied from connected Terminator.
- IR Lens rejects visible light interference.
- Crosshatch Shield (internal) inhibits EMI/ESI Interference.
- Carrier Frequency Acceptance Range: 28 to 90 kHz.
- Control Range: Up to 25 feet, depending on remote strength and ambient noise conditions.
- Control Angle: $\pm 30^\circ$ off axis.
- Dimensions: $3\frac{3}{8}$ " (81mm) W x $1\frac{1}{8}$ " (28mm) H x $1\frac{1}{8}$ " (27mm) D.

SYSTEM CONNECTIONS

The following are a few typical applications of the IRC-3.0-ALR in IR repeater systems.

A Basic System

Fig. 2 shows a basic plug-and-play installation, such as controlling components that are behind closed cabinet doors or in a nearby closet.

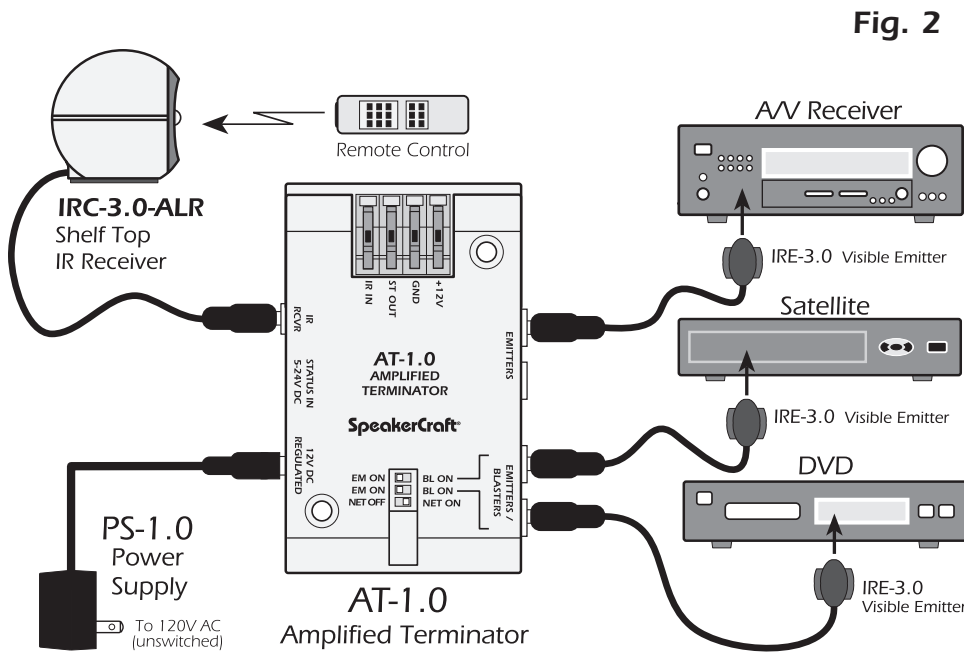


Fig. 2

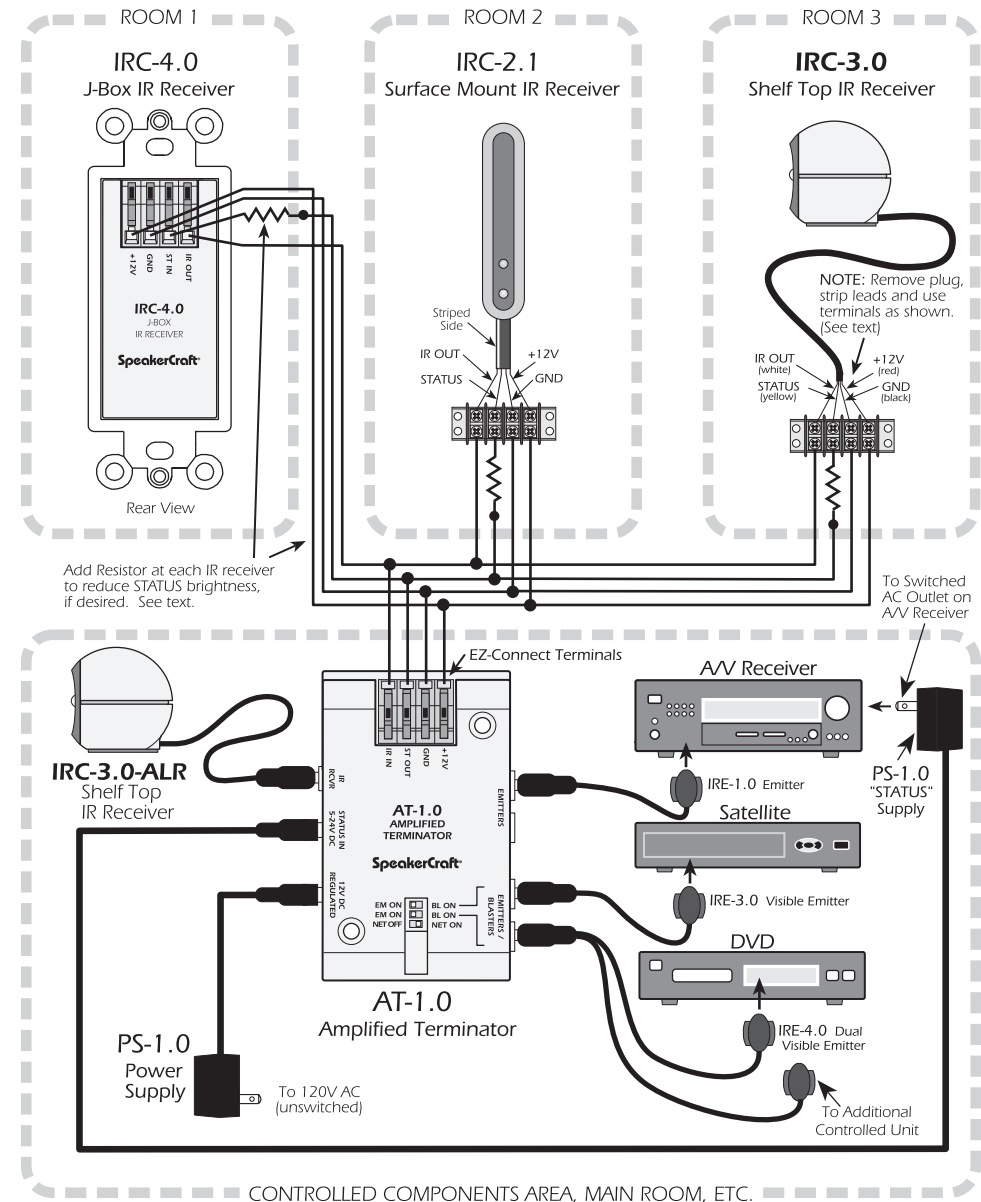
1. Place the IRC-3.0-ALR on a shelf top, a cabinet or other horizontal surface.
2. Plug the IRC-3.0-ALR and Emitters into the SpeakerCraft AT-1.0 Amplified Terminator, as shown.
3. Set the DIP switches on the AT-1.0 to EM ON and NET ON or OFF.
4. Plug in the Power Supply.
5. The remote control, fired at the IRC-3.0-ALR, should now control the components.

A Multi-Room System

Fig. 3 is an example of the IRC-3.0-ALR functioning as a locally wired IR receiver in a multi-room system with other SpeakerCraft IR receivers in various rooms. These control the various components in the main room or equipment area.

1. Pull 4-conductor wire from each room (home runs) to the AT-1.0 Terminator near the controlled components.

Fig. 3



Note: Use 24 gauge unshielded solid or stranded copper wire up to 1200' (Cat. 5e ok), 22 gauge up to 2000', 20 gauge up to 3000' and 18 gauge up to 5300'. Total lengths include all wire runs from each room added together, not just the longest single run. If using shielded wire, these lengths would be reduced by approximately 30%. Also, to achieve operation with long lengths, the lower DIP switch on the AT-1.0 **must** be set to the NET ON position.