ISR-AB

Advanced Base for Intelligent Surface Remotes

Reference Guide

ISR-4 Remote with ISR-AB
(ISR-4 is not included)

Introducing the ISR-AB Advanced Base—the first-ever charging base to offer programmable control buttons and a "Find My Remote" button, adding unmatched convenience and elevating the control experience. The ISR-AB Advanced Base is the perfect companion to your Intelligent Surface remote, providing an instant and dedicated Wi-Fi connection for seamless control.

Equipped with three programmable soft-touch buttons, it's ideal for easy control of custom scenes or frequently used room functions - without even lifting the remote off the base.

Plus, the ISR-AB's "Find My Remote" button triggers an audible beep on your remote to help you locate it when misplaced. The ISR-AB Advanced Base is an essential upgrade for any smart home or office.

Key Features

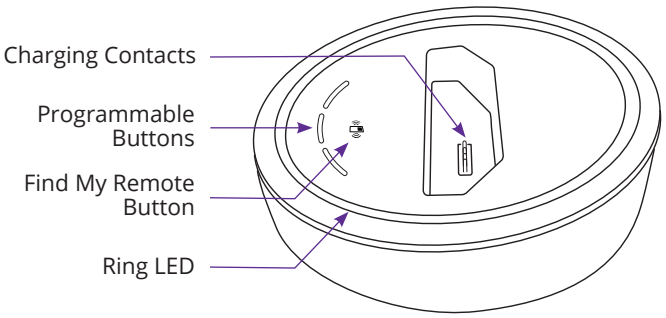
- Wi-Fi access point for solid, dedicated, instant-on Wi-Fi connection for the ISR-4 or ISR-2.
- Wired or wireless connection to the system.
- Three programmable soft-touch buttons for scenes and commands.
- "Find My Remote" button.
- Modern design with an LED light ring to indicate operating mode
- Easy charging for the ISR-4 or ISR-2.

Product Contents

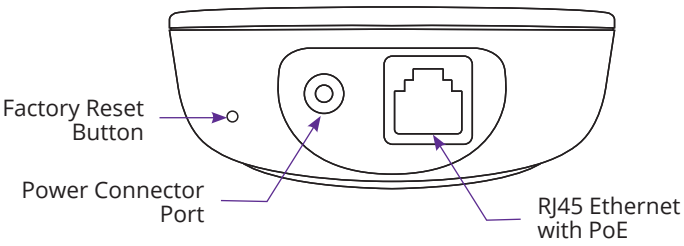
- ISR-AB Advanced Base
- International Power Supply Kit (5V, 2A)

Overview

ISR-AB Top



ISR-AB Back



Connectors and Indicators

RJ45 Port
Ethernet with PoE Power.

Power Connector Port
5V/2A, 5.3mm, Power Supply included.

Find my Remote
Capacitive touch.
Default programmed in ID as Find my Remote.

Programmable Buttons (Scene Buttons)
Capacitive touch
Individually programmed in ID for scenes or other functions.

Ring LED
Illuminates in set colors to correspond to different modes of operation.
Standard functions such as startup indication, button press, and battery charge status.

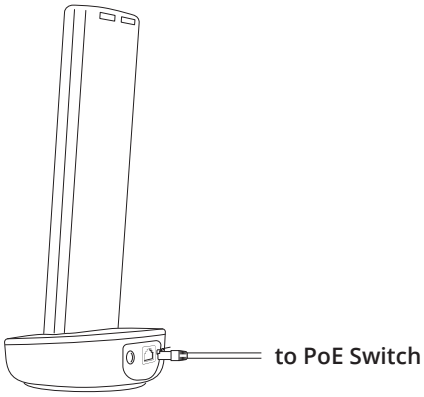
Factory Reset Button

1. Power the ISR-AB on.
2. Press and hold the Factory Reset button for 30 seconds using a paperclip.
3. Release when the ring LED flashes white - this indicates a successful reset.
4. The ISR-AB will restart and return to factory settings.

Power Options

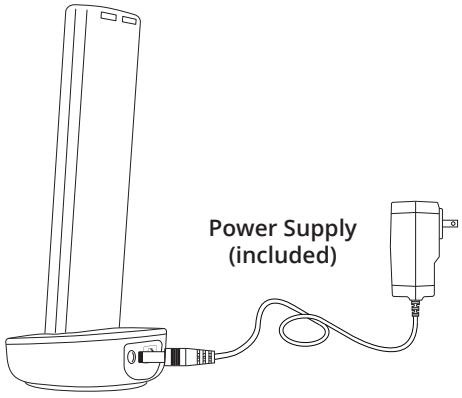
Ethernet with PoE

- Requires IEEE 802.3af standard. Utilize a network switch or PoE injector that meets this standard.
- Connect the ISR-AB using a standard T568A or T568B Ethernet cable from the network switch to the LAN/PoE jack on the side of the ISR-AB enclosure.



DC Power

- You can provide power to the ISR-AB by utilizing the 5V/2A power supply included in the ISR-AB box.
- Plug the connector into the DC jack on the side of the ISR-AB enclosure.
- NOTE: Must use the supplied 5V/2A power supply for reliable operation. Use of non-RTI power supplies may invalidate warranty.



Network Setup

Hardwired Ethernet

The ISR-AB can be connected directly to the network using a standard Ethernet cable, providing a stable and reliable connection.

Note: ISR-AB is set to DHCP as default

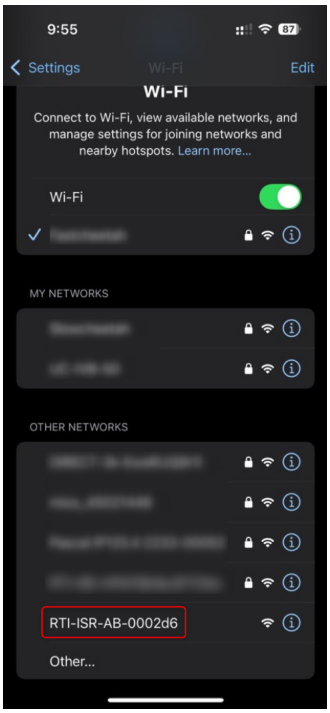
1. To achieve access to the network, please ensure that a Local Area Network (LAN) with access to a DHCP server is available. This will ensure valid IP address assignment for communication between the ISR-AB and the network.
2. Connect the Ethernet port on the ISR-AB to a local area network using a CAT-5e/6/6a cable.
3. The ISR-AB will automatically connect to the network.
4. Open Integration Designer (version 11.12 or higher) to access the ISR-AB for programming.

Wi-Fi (Bridge Mode)

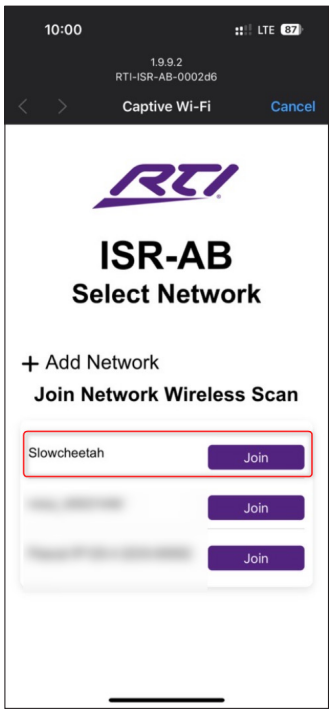
When a wired connection isn't available, the ISR-AB can connect to a 2.4GHz network using Wi-Fi Bridge Mode. This allows for flexible placement such as on an end table or nightstand where running an Ethernet cable may not be practical. A built-in captive portal guides you through connecting the ISR-AB to your wireless network in just a few simple steps.

Join Network

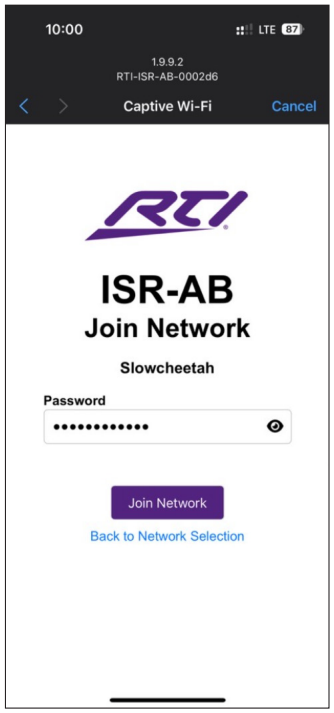
1. In the Wi-Fi Settings page on your mobile device or laptop, connect to the ISR-AB using the RTI-ISR-AB-XXXXXX SSID. Where the XXXXXX is the last 6 digits of the ISR-AB's MAC Address.
   Example: if the ISR-AB's MAC Address is 00:15:26:AB:C1:23 the SSID would be RTI-ISR-AB-ABC123



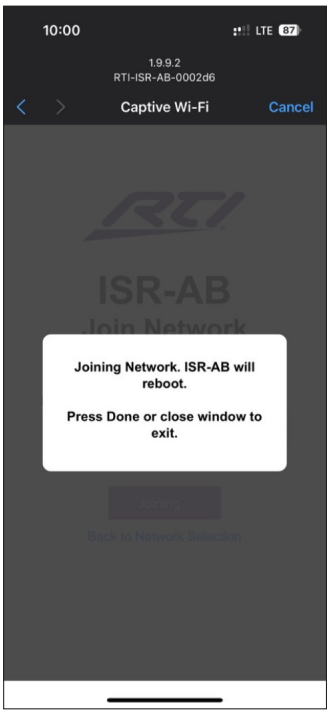
2. The ISR-AB's captive portal will pop up. Click 'Join' next to the 2.4GHz SSID you would like to use for connecting the ISR-AB to the network.



3. Enter the SSID's password and click 'Join Network' at the bottom of the page.



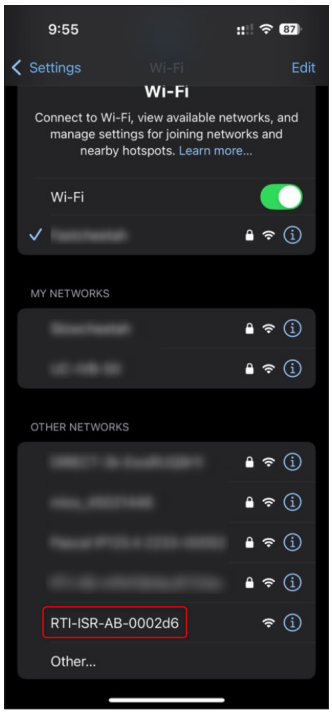
4. Popup confirms the ISR-AB is joining the network. During this time the ISR-AB will reboot to join the network.
5. ISR-AB can now be accessed and programmed using the RTI Integration Designer Programming Software.



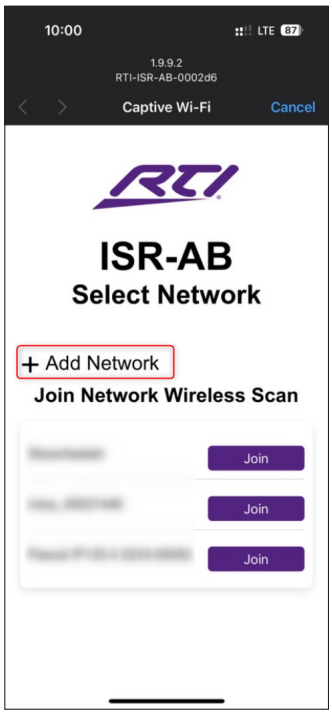
Add Network

If the Wi-Fi network you want to connect the ISR-AB to is not broadcasting its SSID you need to add the Wi-Fi network manually by entering the details of the network.

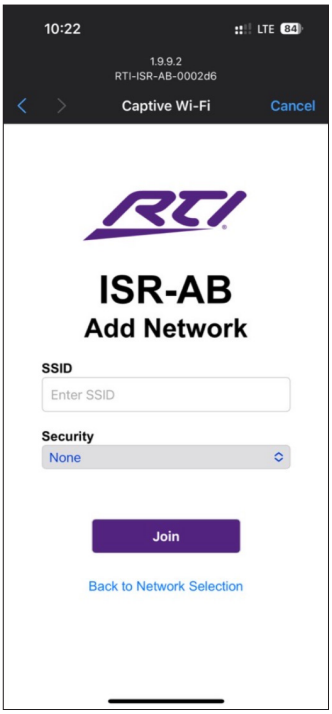
1. In the Wi-Fi Settings page on your mobile device or laptop, connect to the ISR-AB using the RTI-ISR-AB-XXXXXX SSID. Where the XXXXXX is the last 6 digits of the ISR-AB's MAC Address.
   Example: if the ISR-AB's MAC Address is 00:15:26:AB:C1:23 the SSID would be RTI-ISR-AB-ABC123



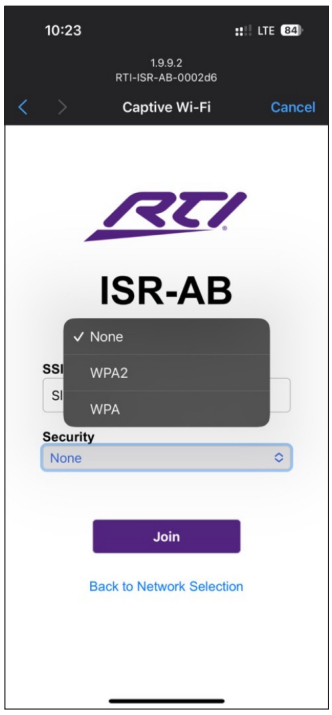
2. The ISR-AB's captive portal will popup. Click 'Add Network' at the top of the list.



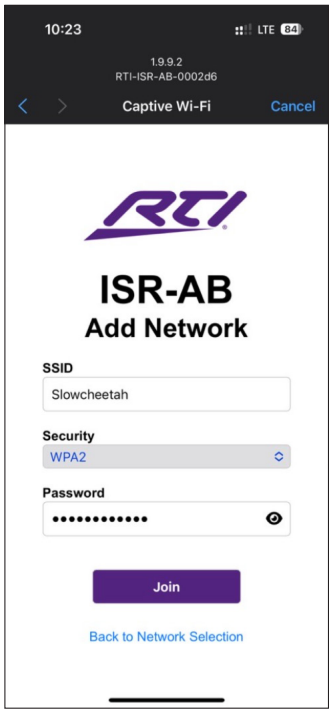
3. Enter the SSID of the 2.4GHz network.



4. Select the security setting of the network.



5. If needed, enter the SSID's password and click 'Join' at the bottom of the page.



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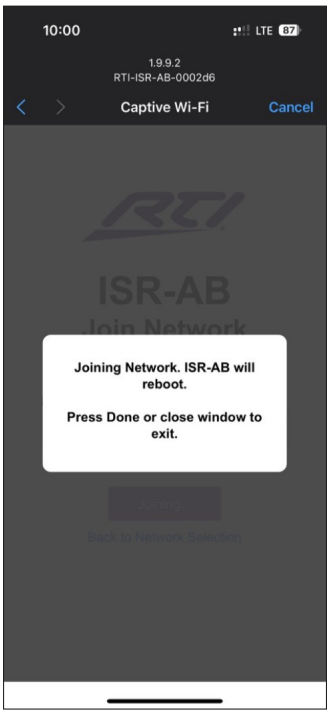

Programmable Buttons

The ISR-AB is programmed using the RTI Integration Designer Programming Software where the unit can be incorporated into a system and configured including assigned functions for the scene buttons. RTI's Integration Designer data files can be downloaded to the ISR-AB via hardwired Ethernet or Wi-Fi once the unit has successfully been connected to an existing network.

Scene Buttons

1. Designed to be used as scene controls, but can be used for a variety of functions as determined by the installer.
2. Each of the three illuminated buttons can be assigned through Integration Designer to perform macros.
3. The button illumination can be controlled jointly (not individually) through function assignments in ID.
4. Each button requires a light pressure to actuate (capacitive touch) and will not give click feedback.

Find My Remote Button

This button is preprogrammed to initiate a function which will alert any ISR remotes connected to the ISR-AB network by making the remote emit a predetermined sound

Although this button is preprogrammed, it can be reassigned to a different function therefore giving the option of four programmable buttons, but note the icon cannot be changed for this button.

Similar to the scene buttons, this button requires a light pressure to actuate (capacitive touch) and will not give click feedback

LED Ring

The LED ring around the top of the base uses colors and animations to indicate system status.

Solid Colors (System Running):

These indicate normal operation. The specific color reflects dock/charge state.

- Solid Blue — No remote docked in the ISR-AB.
- Solid Red — Remote docked and charging.
- Solid Green — Remote docked and fully charged.

Animations / Effects (Status Activity):

These appear during startup or background tasks. No user action is required.

- Breathing White — System booting.
- Solid White — Operating system loaded (startup stage before normal run state).
- Rotating Green Ring — Loading settings.
- Rotating Green Ring — Receiving a file from Integration Designer (ID).

NOTE: During power-up you may see a sequence of these effects to indicate boot stages. They are primarily diagnostic indicators used by RTI technicians and do not affect normal operation. After startup, the ring returns to one of the solid-color states listed above.

Safety Suggestions

Read and Follow Instructions
Read all safety and operating instructions before operating the unit.

Retain Instructions
Keep the safety and operating instructions for future reference.

Heed Warnings
Adhere to all warnings on the unit and in the operating instructions.

Accessories
Only use attachments/accessories specified by the manufacturer.

Heat
Keep the unit away from heat sources such as radiators, heat registers, stoves, etc., including amplifiers that produce heat.

Power
Unplug this apparatus during lightning storms or when unused for long periods of time.

Power Sources
Connect the unit only to a power source of the type described in the operating instructions, or as marked on the unit.

Power Sources
Connect the unit only to a power supply of the type described in the operating instructions, or as marked on the unit.

Power Cord Protection
Route power supply cords so that they are not likely to be walked on or pinched by items placed on or against them, paying particular attention to the cord plugs at power receptacles and at the point at which they exit from the unit.

Water and Moisture
Do not use the unit near water—for example, near a sink, in a wet basement, near a swimming pool, near an open window, etc.

Object and Liquid Entry
Do not allow objects to fall or liquids to be spilled into the enclosure through openings.

Servicing
Do not attempt any service beyond that described in the operating instructions. Refer all other service needs to qualified service personnel.

Damage Requiring Service

The unit should be serviced by qualified service personnel when:

- The power supply cord or the plug has been damaged.
- Objects have fallen or liquid has been spilled into the unit.
- The unit has been exposed to rain.
- The unit does not appear to operate normally or exhibits a marked change in performance.
- The unit has been dropped or the enclosure has been damaged.

Cleaning

To clean this product, lightly dampen a lint-free cloth with plain water or a mild detergent and wipe the outer surfaces. **NOTE**: Do not use harsh chemicals as damage to the unit may occur.

Federal Communications Commission Notice

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. Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the device.

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 the 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 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.
2. This device must accept any interference received including interference that may cause undesired operation.

Industry Canada Compliance Statement

This device complies with Industry Canada license-exempt RSS standard(s). Operation is subject to the following two conditions:

1. This device may not cause harmful interference.
2. This device must accept any interference received including interference that may cause undesired operation.

Cet appareil est conforme avec Industrie Canada exempts de licence standard RSS (s). Son fonctionnement est soumis aux deux conditions suivantes:

1. Ce dispositif ne peut causer des interférences nuisibles.
2. Cet appareil doit accepter toute interférence reçue y compris des interférences qui peuvent provoquer un fonctionnement indésirable.

Declaration of Conformity (DoC)

The Declaration of Conformity for this product can be found on the RTI website at:
www.rticontrol.com/declaration-of-conformity

Contacting RTI, an AVPro Brand

For news about the latest updates, new product information, and new accessories, please visit our web site at: www.rticontrol.com

For general information, you can contact RTI at:
AVPro Global Holdings, LLC
2222 E 52nd Street N
Sioux Falls, SD 57104
Tel. 877-886-5112
Tel. International +1-605-274-6055
RTISupport@avproglobal.com

Service & Support

If you are encountering any problems or have a question about your RTI product, please contact RTI Technical Support for assistance (see the Contacting RTI section of this guide for contact details).

AVPro provides technical support by telephone or e-mail. For the highest quality service, please have the following information ready:

- Your Name
- Company Name
- Telephone Number
- E-mail Address
- Product model and serial number (if applicable)

If you are having a problem with hardware, please note the equipment in your system, a description of the problem, and any troubleshooting you have already tried.

Please do not return products to AVPro without return authorization.

Limited Warranty

AVPro Global Holdings, LLC warrants new products for a period of three (3) years (excluding consumables such as rechargeable batteries which are warrantied for one (1) year) from the date of purchase by the original purchaser (end user) directly from AVPro Global Holdings, LLC (herein referred to as “AVPro”), or an authorized AVPro dealer.

Warranty claims may be initiated by an authorized AVPro dealer using the original dated sales receipt or other proof of warranty coverage. In the absence of the receipt of purchase from the original dealer, AVPro will provide warranty coverage extension of six (6) months from the date code of the product. Note: AVPro warranty is limited to the provisions set forth in this policy and does not preclude any other warranties offered by third parties who are solely responsible for those other warranties.

Except as specified below, this warranty covers defects in product material and workmanship. The following are not covered by the warranty:

- Product purchased via unauthorized sellers or internet sites will not be serviced- regardless of purchase date.
- Damages caused by accident, misuse, abuse, neglect or acts of God.
- Cosmetic damage, including, but not limited to, scratches, dents and normal wear and tear.
- Failure to follow instructions contained in the Product Installation Guide.
- Damages due to products used in an application or environment other than that for which it was

intended, improper installation procedures or adverse environmental factors such as incorrect line voltages, improper wiring, or insufficient ventilation.

- Repair or attempted repair by anyone other than AVPro or authorized service partners.
- Failure to perform recommended periodic maintenance.
- Causes other than product defects, including lack of skill, competence or experience of user.
- Damage due to shipment of this product (claims must be made to the carrier).
- Altered unit or altered serial number: defaced, modified or removed.

AVPro is also not liable for:

- Damages caused by its products or for failure of its products to perform, including any labor costs, lost profits, lost savings, incidental damages, or consequential damages.
- Damages based upon inconvenience, loss of use of the product, loss of time, interrupted operation, commercial loss, any claim made by a third party or made on behalf of a third party.
- Loss of, or damage to, data, computer systems or computer programs.

AVPro's liability for any defective product is limited to repair or replacement of the product, at the sole discretion of AVPro. In cases where the warranty policy conflicts with local laws, the local laws will be adopted.

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AVPro Global Holdings, LLC
2222 E 52nd Street N
Sioux Falls, SD 57104
www.rticontrol.com

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