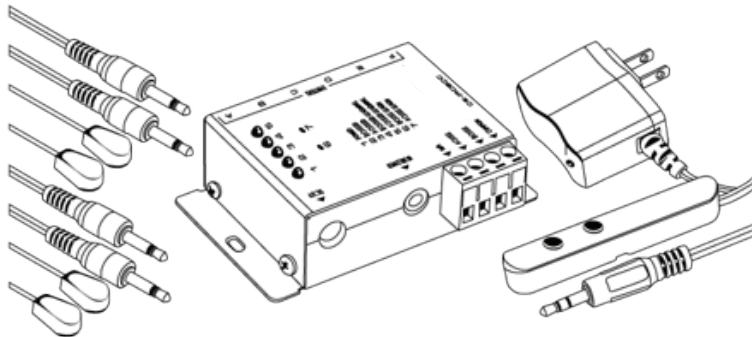**INFRARED REPEATER SYSTEM**

CS-IRKITCCUS

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Sales: 386.255.0234 | Tech: 386.492.8584

Thank you for selecting the Ethereal CS-IRKITCCUS to be a part of your entrainment system. With it you can extend the IR (infrared) signals of your remote control and also provide an interface to relay controlled devices (such as our HDM-AIO, Motorized TV lifts, Screens and Drapery systems).

Do not install in wet locations, do not open chassis, do not use a power supply other than the one included, and please **READ THE DIRECTIONS CAREFULLY.**

1. Package contents

12 Volt, 200 mA Power Supply (1 each)
Single Emitter (4 each)
IR Dual Band IR Receiver (1 each)
IR Connecting Block with Relay Interface (1 each)
Installation Manual (1 each, currently in your hands)

2. Installation of IR control components

Install the connecting block in an accessible location behind or next to the controlled products and near an 110V plug. Take into account the IR emitters cable's length and make sure that all cables are serviceable and kept accessible.

Mount the IR emitters onto the IR receiving port on each of the controlled items.

Route the emitter cables to the IR connecting block. A self-adhesive backing is supplied for each emitter.

NOTE: Test the IR emitter at the desired location prior the removing adhesive backing. Plug the male emitter terminal into the emitter ports on the connecting block. Mount the IR receiver at a location that can easily be seen by your hand held remote.

NOTE: Avoid the IR receiver being placed where it is exposed to direct sunlight or fluorescent light as these will overload its receiving capability. Experiment with the best location prior the removing adhesive backing.
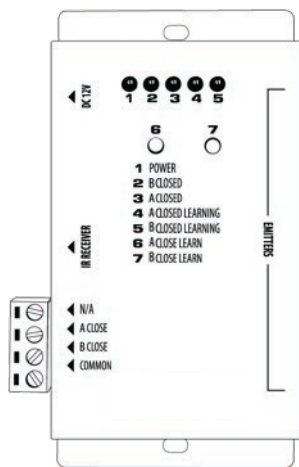
Connect the power supply.

You are now done with the IR section of your installation.

3. Overview of the Remote learning and Relay control functions

The CS-IRKITCCUS is very unique in that it has the ability to learn two IR codes from most remotes to provide a Dry Contact Closure interface to relay controlled devices. The unit also comes equipped with five LED indicators to show learning plus

operating status and two buttons to enable the IR code learning process.

    1 - LED Power Indicator
    2 – B Contact Closed (A Open) Indicator
    3 – A Contact Closed (B Open) Indicator
    4 – B Closed Learning Indicator
    5 – A Closed Learning Indicator
    6 – B Contact Close Learn
    7 – A Contact Close Learn

The CS-IRKITCCUS is equipped with a 4 Port Phoenix style connecting terminal to allow the wiring of your relay controlled devices.

NA – No purpose (do not use)

A Close – You will use this port for one conductor most NC
    (normally closed) products. - When A is closed B is open.

B Close – You will use this port for one conductor most NO
    (normally open) products. When B is closed A is open

Common – This port is used for the second conductor for any NC or NO device.

NOTE: THIS IS A CONTACT CLOSURE DEVICE; DO NOT CONNECT POWER TO THE PHOENIX PLUG.

4. Wiring and Programming for one Relay (Dry Contact Closure) controlled devices.

This CS-IRKITCCUS enables you to copy 38 KHz remote codes into the product.

Connect the two wires from the relay controlled device into Port A for "A CLOSE – B OPEN" operation of the CS-IRKITCCUS and the common port on the Phoenix connector.
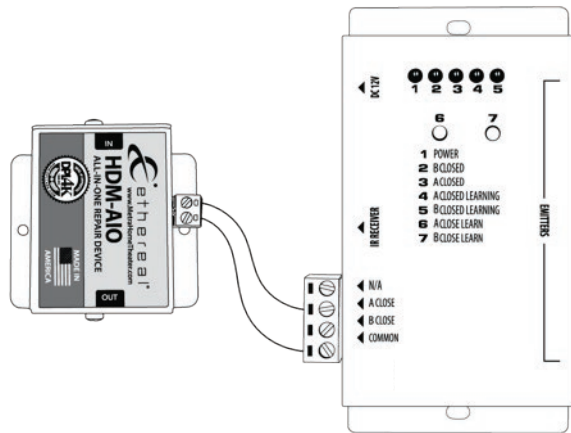
Select the remote (and its mode) that you will be learning the codes from.

Unplug the IR receiver from the connecting block, place the remotes IR in-line pointed at the IR receiver port and within 6 inches of the IR receiving port.

Press and hold the "A CLOSE LEARN" button (7) with one hand and then press and hold the Remote button that you want to learn with the other hand for at least 2 seconds, release both buttons at the same time, the code should now be learned.

Follow the same directions using the "B CLOSE LEARN" button (6) to perform the "B Close Learn" process.

To verify the learned functions, reconnect the IR receiver into the connection block, point the remote that you will be using at it and try the buttons. If the "A" code has been correctly learned LED "3" will light up, "4" will also light up for a short time and then turn off.
Follow the same directions to perform the "B Close" verification.
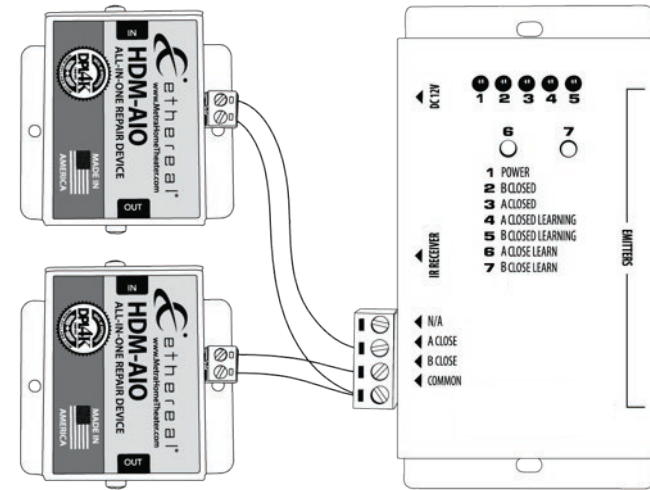

5. Wiring and Programming for two Relay (Dry Contact Closure) controlled devices.

This CS-IRKITCCUS enables you to copy 38 KHz remote codes into the product.

Connect the two wires from the relay controlled device into Port A for "A CLOSE – B OPEN" operation of the CS-IRKITCCUS and the common port on the Phoenix connector.

Connect the two wires from the relay controlled device into Port B for "B CLOSE – A OPEN" operation of the CS-IRKITCCUS and the common port on the Phoenix connector.

(See 4. For the code learning instructions)

6. Connection to a control system

The CS-IRKITCCUS can be easily connected to the emitter port on a control system using our CS-IRCC cable. This cable has a 3.5mm mono plug that connects to your control system IR port and a 3.5mm stereo plug that is inserted into the IR Receiver port on the CS-IRKITCCUS connecting block.

7. Technical Specs

IR Connecting Block

Power:	100-240VAC, 12VDC, 200mA (supplied)
IR Receiver Connection:	3.5mm Stereo Jack
Dimension:	3.25" x 1.85" x 1"
Weight:	7.5 oz

IR Receiver

Connection:	3.5mm Stereo Jack
Receive Frequency range:	38KHZ – 58KHz
Transmit Frequency range:	38KHz – 56 KHz
Cable Length:	9'10"
Tip:	Signal
Ring:	Ground
Sleeve:	12VDC
Dimension:	2.7" x .46" x .48"
Weight:	.7 oz

IR Emitter

Connection:	3.5mm Mono Jack
Tip:	Signal
Sleeve:	Ground
Cable Length:	9'10"

Relay

Current Rating:	2A
Type:	Single Pole, Double Throw

ethereal®