

.....®
CALRAD
ELECTRONICS

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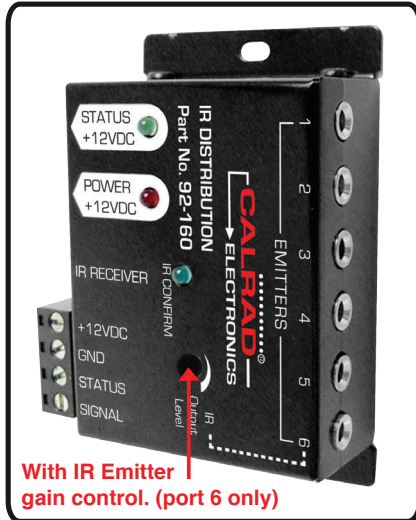
92-160 IR DISTRIBUTION SYSTEM



The Calrad 92-160 is an IR connecting hub with a wired receiver that terminates to a [3.5mm stereo plug]. A terminal block is also provided to support wired type receiver connections if needed. The 92-160 is designed to simplify the connection of IR receivers and emitters for IR signal distribution. The 92-160 has the ability to send IR signals to 6-sources using a single emitter or up to 12 or more sources if double or triple IR emitters are used. Three colored L.E.D indicators show power status, IR signal and IR confirmation.

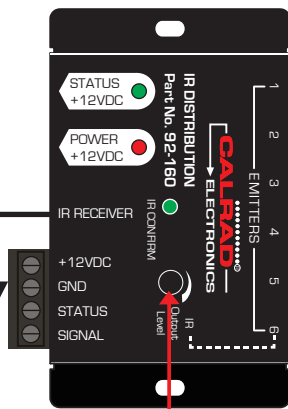
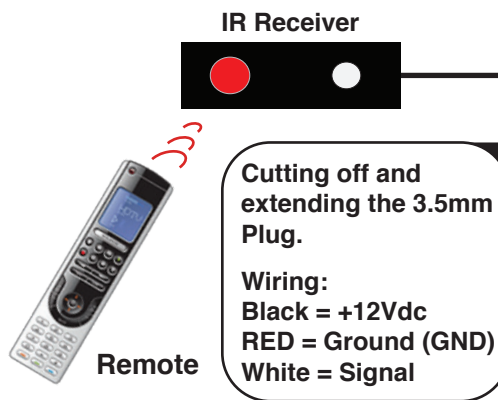
SPECIFICATIONS:

- Includes 1 x Distribution Block, 1 x Surface Mount Receiver, 3 x IR Emitters, 1 x 12Vdc, 300ma Power Supply (Positive Center Status+12Vdc Input)
- With IR Emitter gain control. (port 6 only)
- (6) Ports .125" (3.5mm) Mono IR Emitter outputs
- (1) Detachable, 4-conductor, IR Receiver Input Connector
- (2) .125" (3.5mm Stereo Jack) IR Receiver Input
- Dimensions, IR Receiver: 1.77" L x 0.56" W x 0.52" H
- Dimensions, Distribution Block: 1.95" L x 2.25" W x 0.98" H
- Distribution Block Weight: 6 oz.



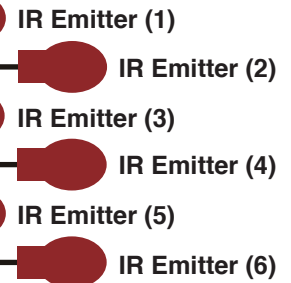
With IR Emitter gain control. (port 6 only)

EXAMPLE DIAGRAM:



With IR Emitter gain control. (port 6 only)

To AV Equipment



Note: Use Dual or Tripple emitters for more output capacity

Included IR Accessories: LCD PLASMA FRIENDLY

FEATURES:

- * Send signals to 6 or more emitters
- * With IR Emitter gain control. (port 6 only)
- * Detachable IR Receiver input connector
- * Power, Ground, Status and Signal
- * IR Receiver input jack .125" (3.5mm)
- * 12Vdc powered * IR Confirmation LED
- * Power LED * Status Confirmation LED
- * Quick Mount * Sleek thin receiver design



PLEASE READ THIS FIRST!

Due to the complexity of today's electronic equipment and the constant change in technology you may experience technical issues when connecting various products together. The perception may be that the product from Calrad is defective or not working as described. In most cases it may be the unit is not used for the correct application or is not properly connected and configured. It is Important that the products you purchase from us perform as designed. If you have any concerns or questions, please contact our technical support department first before returning the unit back for repair, refund or exchange. Tel: (323) 465-2131

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• IR Connecting Block Instructions:

1. Power

Connect a 12 VDC (200mA to 1A) power supply to the power jack of the IR Connecting Block. The red LED will be illuminated when powered. This will power all of the IR components connected to the system. Depending on the type of components and the number of components will determine how much current the power supply will need to provide.

2. Status Power

12VDC 200mA 2.1 mm + Tip - sleeve. Connect a power supply to this connection will power the status connection. The green LED will be illuminated. This can be from a 12 volt trigger output or from a wall type power supply plugged into a switched outlet of a stereo receiver.

3. IR Receiver Connection

This is a three terminal 1/8" plug that is common to many of the free standing IR receivers. This will connect the power, ground and signal. Signal is Tip (White), ground is the ring (Red) and power is the sleeve (Black).

4. Emitter Outputs

Connect up to 6 emitters to the emitter jacks labeled 1-6. Place the emitters on the source equipment.

• IR Emitter Instructions:

A. Standard installation

- 1. IR emitter attached directly to IR sensor window.
- 2. Most reliable activation

B. Attach emitter on inside shelf

- 1. Attach emitter on shelf above or below IR sensor.
- 2. Less reliable activation.

C. Cabinet with door installation

- 1. Attach emitter on door, round shape facing the IR sensor.
- 2. Less reliable activation.

Note:

Occasionally, more reliable activation can occur by moving the IR emitter further away from the device. This may be due to improper placement of the emitter, or that the sensor itself is partially obscured. It may also be due to a peculiar remote control unit/ sensor combination. Placing the emitter 5-10 cm away from the IR sensor can achieve significantly better activation in such cases. Please experiment to achieve optimal activation before securing with the self-adhesive pads.

• IR Receiver Instructions:

Feature:

- 1. CFL friendly-allows installations in areas with compact fluorescent lighting. Works in most lighting environments.
- 2. Blue IR confirmation LED.
- 3. Wide band IR receives IR from many types of remotes.
- 4. Self-adhesive tape for quick and easy fixing on any flat surface.
- 5. 3 meters cable with 3.5mm stereo mini-plug.

Specification:

Receive Frequency Range	34 kHz to 60 kHz
Transmit Frequencies	38 KHz & 56 KHz
Range	40ft. @ 38 KHz
.....	25ft. @ 56 KHz
Power	12VDC, 30mA max.
Dimensions	45L x 14W x 13H mm
Cord Length	10ft. (3m)
Connector Type	1/8" (3.5mm) TRS mini plug
Weight	28 g

Cutting off and extending the 3.5mm Plug.

Wiring:

**Black = +12Vdc
RED = Ground (GND)
White = Signal**

**With IR Emitter gain control.
(port 6 only)**

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