IR Repeater Kit Instruction Manual

The **IR Repeater Kit** connects IR Connecting Block, IR Receiver, IR Emitter, and Power Supply together to interface the IR system to the audio/video components.

Related Components:

In-Wall IR Connecting Block
In-Wall IR Receiver
Dual IR Emitter
Single IR Emitter
Switching Power Supply

◆ In-Wall IR Connecting Block

FEATURES
1. Three emitter output connections.
2. Convenient IR confirmation LED.
3. Status power receptacle with LED indicator.
4. Power receptacle with LED indicator.
5. Large detachable IR receiver connection.
6. Mounting near audio equipment.

SPECIFICATIONS
Dimensions: 70W x114H x 40Dmm
Weight   : 56g

INSTRUCTIONS
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.

Status Power
12VDC 200mA 2.1mm + 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. If you are using products like the In-Wall IR Receiver that have a status indicator, simply plug a 12 VDC power supply into the switched outlet and when the receiver is turned on the status LED will be illuminated.

In-Wall IR Receiver Connection

Connect the In-Wall IR Receiver to the detachable connector labeled +12VDC, GND, STATUS, and SIGNAL.

Emitter Outputs
Connect up to 3 emitters to the emitter jacks labeled 1-3. Place the emitters on the source equipment.
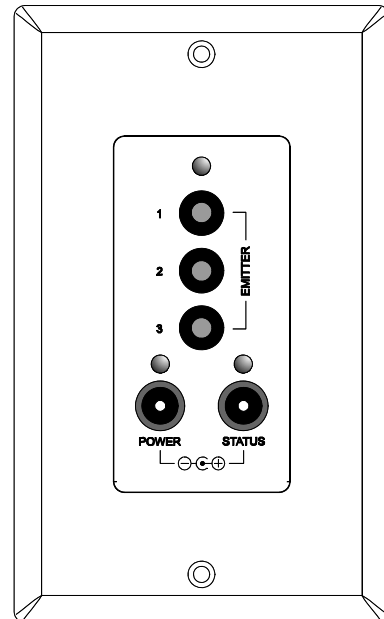
◆ Dual Band In-Wall Infrared Receiver

The **Dual Band In-Wall Infrared Receiver** receives IR signals from a handheld IR remote control and relays this to the audio/video equipment for operation from another room. Mounts to a single gang standard electrical box using a decorate cover plate.

FEATURES
1. Stylish decorate design. Available in white colors.
2. Dual color LED. Green for system status and blue for talk back.
3. Ultra thin design. Mounts easily in any J-box or P-ring.
4. Wide band IR receives IR from many types of remotes.

SPECIFICATIONS
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.
Status Power: 12VDC, 3mA max.
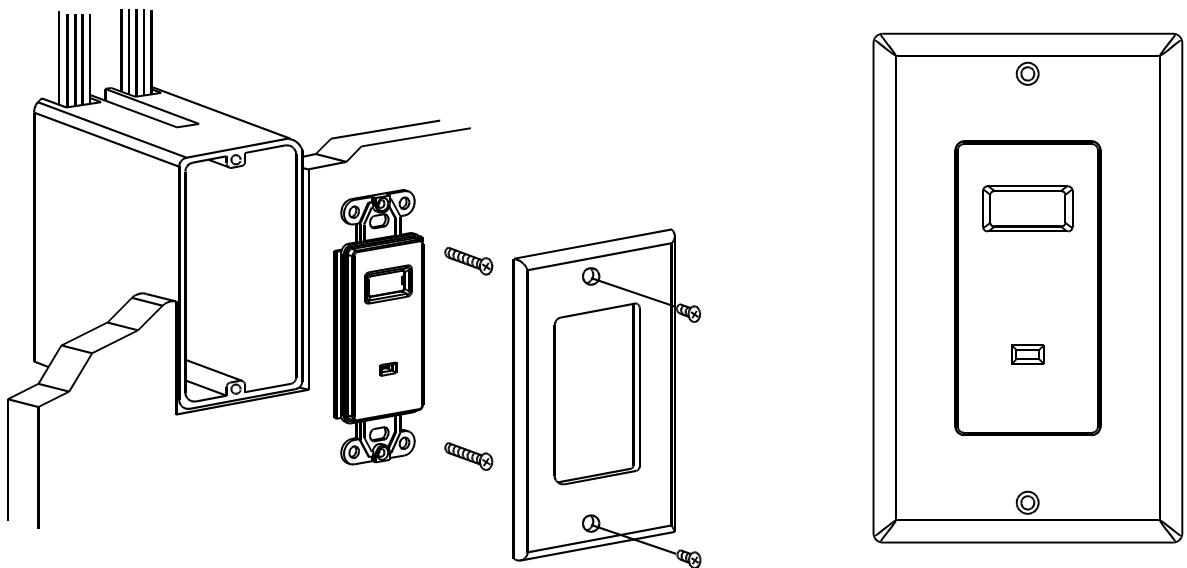Wire requirements: 2 twisted pair, with or without shield

INSTALLATION
Connect the Dual Band In-Wall Infrared Receiver to the   connecting block using 2 twisted pair wire. Use one pair to connect GND (GROUND) and IR (SIGNAL). Use the other pair to connect ST (STATUS) and V+ (+12VDC). If the wire has a shield, connect it to the ground at both ends.

STATUS INDICATOR
To use the status indicator on the Dual Band In-Wall Infrared Receiver connect the 12 Volt 100mA or higher power supply to the STATUS line of the connecting block as shown . Plug the power supply into the switched outlet on the stereo receiver. When the receiver is on, the power supply will turn on the system status line and illuminate the LED green of the Dual Band In-Wall Infrared Receiver.

MOUNTING
Mount the Dual Band In-Wall Infrared Receiver to the standard electrical box using the screws that are supplied. Mount cover plate to the IR receiver. See Figure .
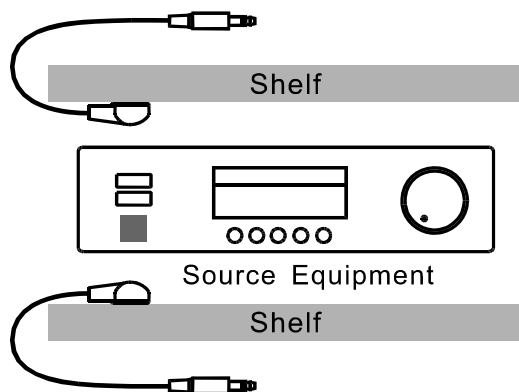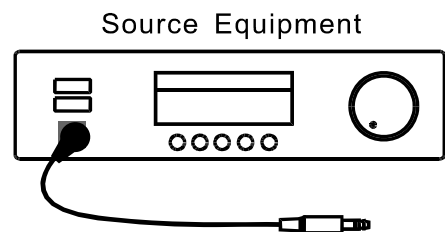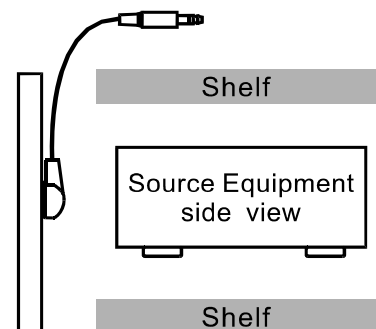
◆ Dual IR Emitter

Infrared transparent
housing

Self-adhesive

3 meters cable   3.5mm mono plug   +
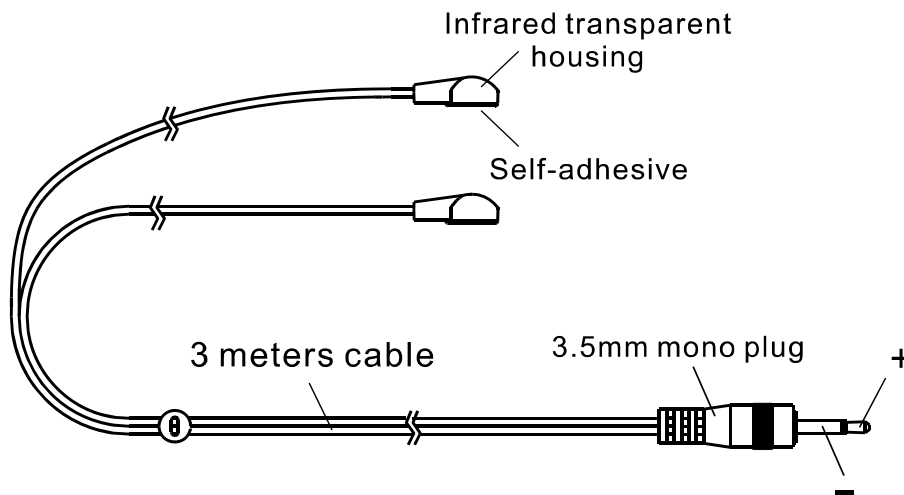
A. Standard installation

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

Source Equipment

Shelf

Source Equipment

Shelf

B. Attach emitter on inside shelf

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

Shelf

Source Equipment
side view

C. Cabinet with door installation

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

Shelf

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 5~10cm 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.

SETUP DIAGRAM

+12V
Gnd
ST
IR
Audio L+
Audio L-
Audio R+
Audio R-

Speaker

**In-Wall Volume Control
with IR Receiver
(not Included)**

Room 2

**In-Wall Volume Control
(not Included)**

Speaker

In-Wall IR Receiver

Room 1

Radio Tuner

Satellite Receiver

A-1142

CD Player

Integrated Power
Amplifier

EMITTER

1
2
3

STATUS

POWER

Loco

**In-Wall Infrared
Connecting Block**

To AC
outlet

Living Room