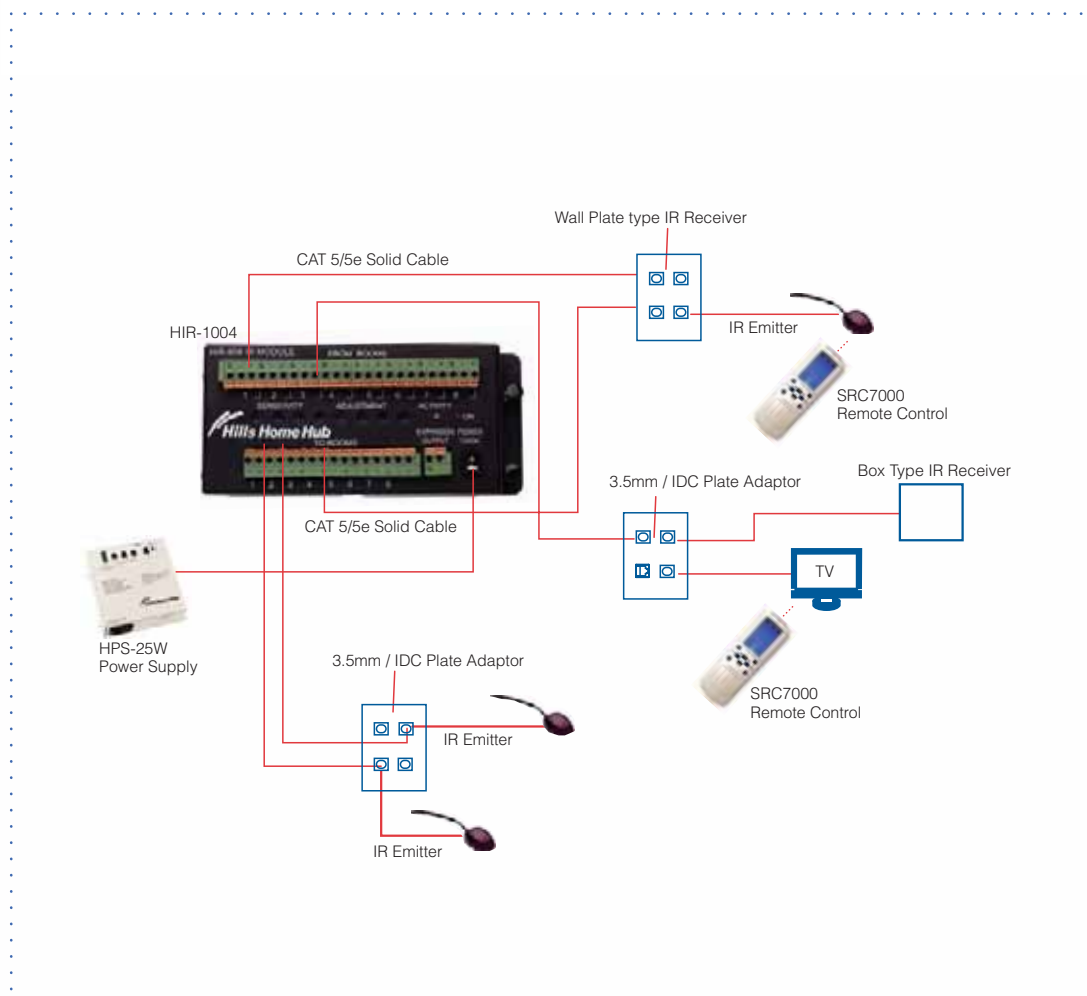


5. Infrared Modules

The Infrared control system is designed for family members to remotely control any electronic device such as Audio Receiver, DVD, VCR, Satellite etc via an IR network. With the built-in Cat5/Cat5e cable, users can easily install the IR Emitter, IR Receiver and IR Distribution Module as a complete whole IR control system.

The IR Receiver receives IR signals from handheld remote controls and delivers these to the IR Emitter via the IR Distribution Module. Its special connector allows for easy insertion of IR distribution cable. The IR Module supports four/eight IR applications, and users can add another IR Module using the IR expansion port if required.



IR Distribution Module

Features

- ▶ Enables the remote control of electronic equipment such as DVD's, VCR's, Pay TV Set Top Boxes and AV Receivers via an IR network
- ▶ Receives IR signals from up to 8 remote IR receiver locations then distributes those signals to 8 IR emitter locations for equipment control
- ▶ Distributed via Cat5e cables to specified wall outlet locations

Specifications

Dimensions: 76mmH x 165mmW x 22mmD
Power: 12V DC @ 250mA
Max No. of Controlled Devices: 16 (with dual emitters)
Max. Input Locations: 8
Connector Type: Press fit terminal block
Expansion Port: Yes

Ordering info

S2124 HIR-808 8 Zone IR Module



IR Emitter

Features

- ▶ Receives IR signals from the IR distribution module and sends them to the electronic device
- ▶ Adhesive tape included for attachment to IR sensor window of controlled device
- ▶ Supplied with 3.5mm plug to fit into Hills S2689 C type or S2688 H type 3.5mm + IDC Mech
- ▶ Dual port emitter wired in parallel

Specifications

Length of Wire: 3m

Ordering info

S3416 HEM-1 IR Emitter - Single Output
S3417 HEM-2 IR Emitter - Dual Output



Installing the IR Distribution Module

To install the modules, simply insert tabs to the cap coated on the rail of the enclosure. Press the fastener to lock the module at the desired position. Refer to Fig 1.

Operation

There are two rows of terminal blocks on this module. The top row has the IR Receiver blocks labelled "From Rooms" they are used to connect IR Receivers. The bottom row features the IR Emitter blocks labelled "To Rooms", they are used to connect IR Emitters. (see Fig. 2)

Connecting the IR Receiver

Each set of IR Receiver block has three terminals which are labelled "S", "-" and "+". Strip wire (CAT5/CAT5e Solid Cable) ends 4mm and insert into this terminal block according to the following wire instruction for IR Receiver connection: "S" = White Orange, "+" = White Brown, "-" = Brown.

Note - It is advisable to maintain identical cable colour coding for "S", "-" and "+" for all IR Receiver blocks.

Connect the IR Emitter

Each set of IR Emitter block has two terminals which are "-" and "+". Strip wire cable (CAT5/CAT5e Solid Cable) ends 4mm and insert into this terminal block according to the following wire instruction for IR Emitter connection: "+" = White Green, "-" = Green.

Note - It is advisable to maintain identical cable colour coding for "+" and "-" between IR Emitter Adapter and IR Emitter block.

Apply a 12VDC power adapter to this IR Distribution Module and your IR system is ready to go. A power

cord is included for connections to the (HPS-25W18AC or HPS-60W) Hills Home Hub® power supplies. Simply connect both ends to the proper DC sockets.

Sensitivity Adjustment

There is a gain/sensitivity adjustment used for tuning the amplified level. To adjust for different cable losses you can use sensitivity adjust to increase the gain and get appropriate signal levels.

IR Receiver (HRM-1) & IR Emitter (HEM-1)

The IR Receiver (HRM-1) receives IR signals from a handheld remote control and transmits to all IR emitter (HEM-1) to control corresponding electronic devices. The transmission media is CAT 5 or CAT 5e cable. Point the handheld remote control to the IR Receiver so that the IR receiver has a straight view to receive the signal. The distance between the IR Receiver and the remote control should not exceed 5 metres.

Note - it is recommended you install ONLY ONE IR Receiver per room.

IR Expansion Method

The Expansion Output port is used to control additional audio or video devices or to allow more rooms to control audio or video devices when applications go beyond eight. Simply connect the terminals "S" and "-" from the Expansion Output of the first HIR-808 IR Distribution Module into anyone of the IR Receiver block terminal of the additional HIR-808 IR Distribution Module.

Fig 1

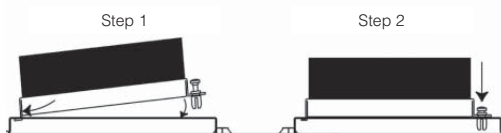
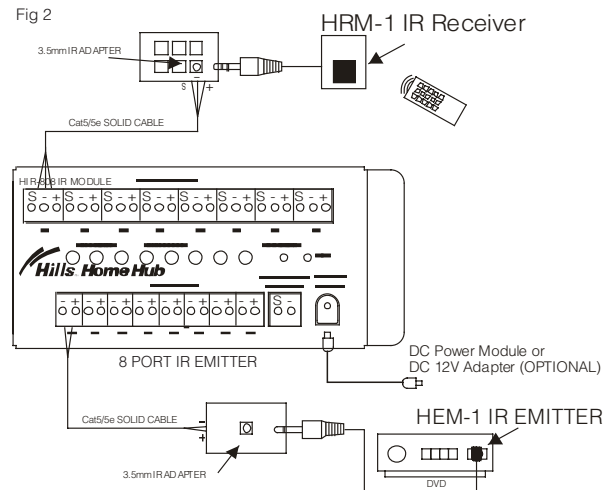


Fig 2



Wired IR Target

Features

- Receives Infrared signals from the device remote control and sends them to the HIR-808 IR Distribution Module

Specifications

Power: 12V DC from HIR-808 Module
Length of wire: 1.5m

Ordering info

S3418 Wired IR Target



Remote Room IR Target - RF

Features

- Receives Infrared signal from the device remote control and sends them to the S3437 Hills Active Distribution Splitter. The signal is repeated by the HI2014 four channel modulator which is placed in the location of the device that is to be remotely controlled.

Specifications

Power: 5V DC from S3437 Hills Active Distribution Splitter
Length of wire: Supplied separately

Ordering info

HI3041 Remote Room IR Target - RF

