

The distribution hub can distribute IR signals to and from a maximum of six rooms using its I/O ports – standard RJ45 modular jacks. This allows remote control of any compatible electronic equipment from other rooms.

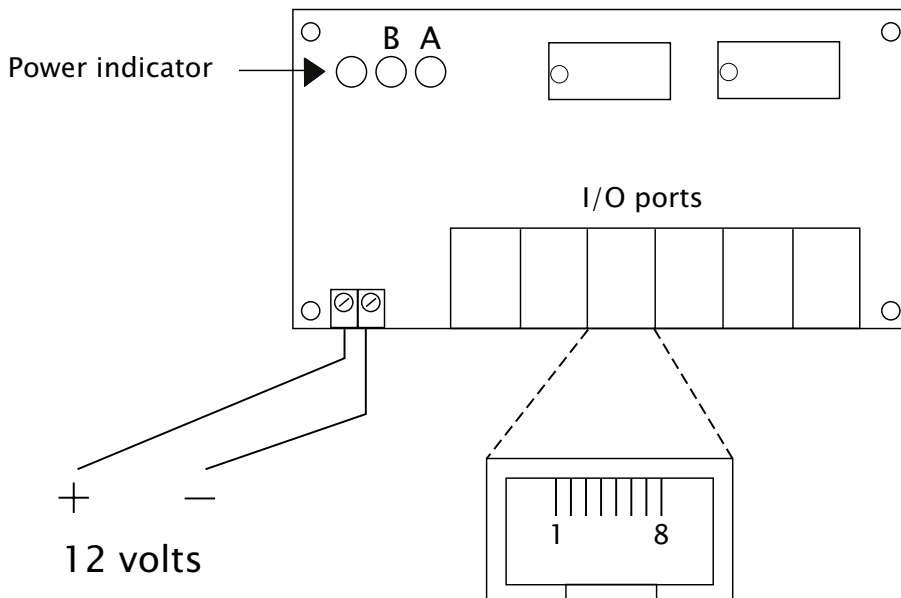
The equipment to be controlled is usually in one location however every port on the hub can be used to send or receive signals allowing the flexibility to change the location of equipment or control equipment in other rooms without having to rewire the IR distribution system.

In addition to the distribution Hub being bi-directional, there are two data channels to avoid contention when single channel systems are used in complex applications. Two channels (Ch-A and Ch-B) allow users to control different equipment simultaneously.

WIRING

Each RJ45 modular jack has eight connections; six of these are used leaving one twisted pair un-used on each cable run. If only one data channel is required then another twisted pair is un-used. Ideally dedicated cable should be run for the Blue Eye system but some installers commission unused pairs for telephone or data. Terminations to each room's modular jack must mirror hub connections.

The Hub should be installed in an accessible location and supported by the four insulated mounting posts supplied. A low current (100mA Max) source of 12 volts (May be 9-20VDC) is supplied to the hubs two-way terminal block. The hub has an on-board 5-Volt regulator supplying the entire Blue Eye system. Three light emitting diodes (LED's) indicate the integrity of the onboard 5-Volt rail as well as activity on Ch-A or Ch-B.



1. 0 volt (ground)
2. +5 Volt supply
3. Ch-B signal in
4. N.C
5. N.C
6. Ch-B signal out
7. Ch-A signal in
8. Ch-A signal out