



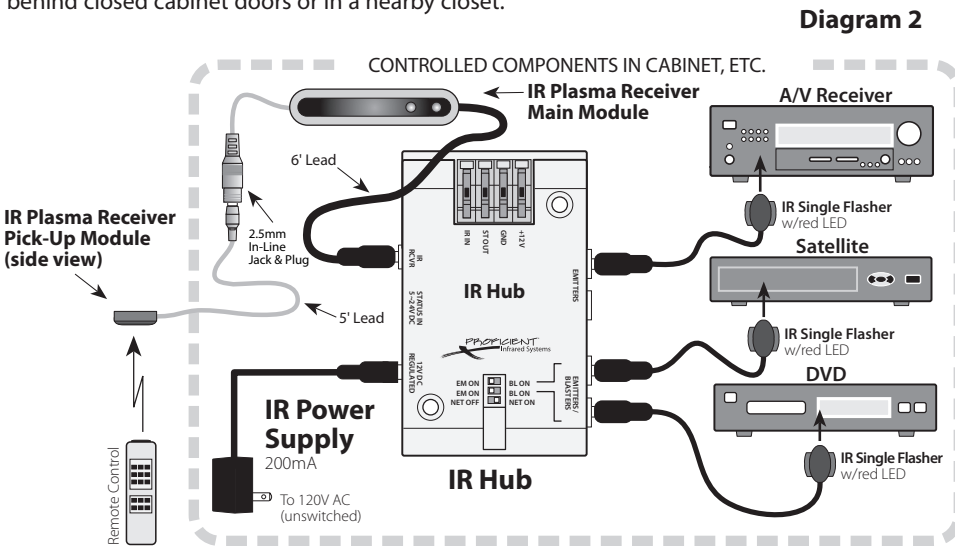
- Mounting: Both the Main and Pick-Up Modules may be attached to any flat surface using the included double-sided tape. The tape may be applied to the back or side surfaces to accommodate the installation.
- Power: 12V DC @ 12 mA. Supplied from connected IR Hub.
- IR Lens rejects visible light interference.
- Internal Shield inhibits EMI/ESI Interference.
- Carrier Freq. Acceptance Range: 36 to 60 kHz.
- Output Carrier Freq.: 38 & 56 kHz.
- Control Range: Up to 75 feet, depending on remote strength and ambient interference (noise) conditions.
- Control Angle:  $\pm 50^\circ$  off axis.
- Dimensions:
  - Pick-Up Module (L x W x D):  $\frac{7}{8}$ " (23mm) x  $\frac{13}{32}$ " (10.3mm) x  $\frac{9}{32}$ " (7.2mm).
  - Pick-Up Module Lead Length: 5' (1.5m).
  - Main Module (L x W x D):  $2\frac{9}{16}$ " (65mm) x  $\frac{9}{16}$ " (14mm) x  $\frac{1}{2}$ " (13mm).
  - Main Module Lead Length: 6' (1.8m).

## SYSTEM CONNECTIONS

The following are a few typical applications of the IR Plasma Receiver in IR repeater systems.

### A Basic System

Diagram 2 shows a basic plug-and-play installation, such as controlling components that are behind closed cabinet doors or in a nearby closet.

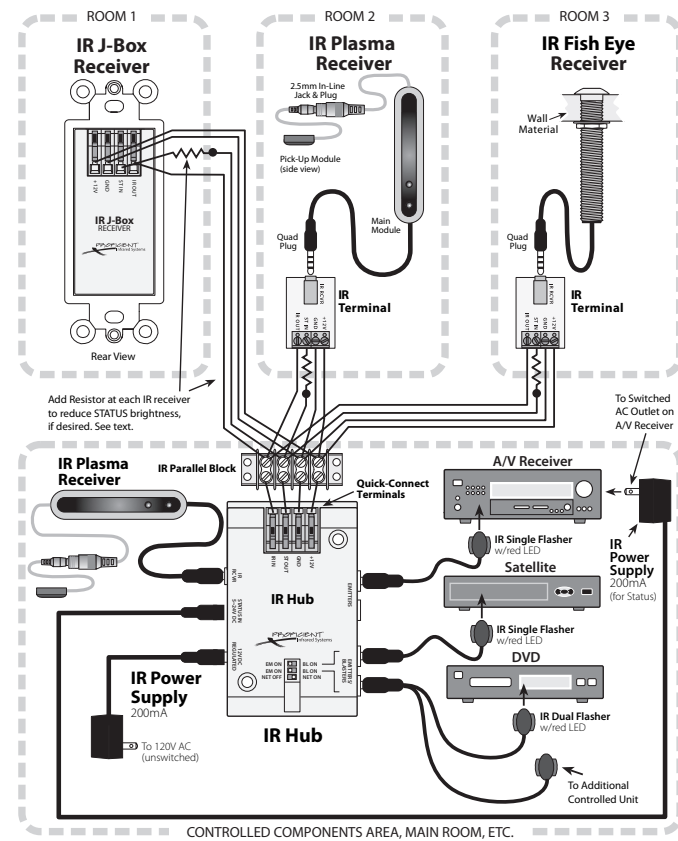


1. Mount the Pick-Up Module of the IR Plasma Receiver in a recessed cabinet area or other inconspicuous location, using the 2-sided adhesive tape supplied.  
**Note:** Be sure you have an unobstructed line-of-sight path from the Pick-Up Module to the area from which the remote control will be used.
2. If necessary, you can drill a  $\frac{1}{2}$ " hole to pass the small 2.5mm plug and wire through to the 2.5mm In-Line jack on the Main Module inside the cabinet.
3. Plug the Main Module of the IR Plasma Receiver and the IR Flashers into the Proficient IR Hub, as shown.
4. Set the DIP switches on the IR Hub to EM ON and NET ON or OFF.
5. Plug in the IR Power Supply.
6. The remote control, fired at the Pick-Up Module, should now control the components.

### A Multi-Room System

Diagram 3 is an example of the IR Plasma Receiver in a multi-room system with other Proficient IR receivers in various rooms, plus a local IR Plasma Receiver. These control the various components in the main room or equipment area.

Diagram 3



1. Pull 4-conductor wire from each room (home runs) to the IR Hub near the controlled components. **Note:** Use 24 gauge unshielded solid or stranded copper wire up to 600' (Cat. 5e ok), 22 gauge up to 1200', 20 gauge up to 2400' and 18 gauge up to 5300'. **Total lengths include all wire runs from each room added together, not just the longest single run.** If using shielded wire, these lengths would be reduced by approx. 30%. Also, to achieve operation with long lengths, the lower DIP switch on the IR Hub must be set to the NET ON position.
2. Connect IR receivers in each room to the 4-conductor home runs as shown, using the IR Terminals supplied.
3. Connect the home run wires to the correct Quick-Connect Terminals on the IR Hub. **Note:** You may use the IR Parallel Block included with the IR Hub to help connect the many paralleled home run wires to the IR Hub's Quick-Connect Terminals.
4. Install and plug the various IR Flashers into the IR Hub.
5. Set the DIP switches to EM ON (or BL ON if using Blasters behind closet doors) and NET ON.
6. Plug the local IR Plasma Receiver's Main Module into the IR RCVR jack.
7. Plug in the IR Power Supply-200mA into the 12V DC Regulated jack.
8. A remote control, fired at the various IR receivers, should now control the components.

**Note:** Refer to the Proficient IR Hub manual for Power Supply considerations.