

IR-250/350 Infrared Repeater Installation Instructions

Room Placement & Mounting

Infrared repeaters need to be easily accessible and convenient to use. An easy to “hit” location, near the TV/Monitor is usually the best place to install the IR repeater. Most remote controls have a range of 30-35 ft. The IR-250 is designed to mount in-wall using an electrical box or P-ring. Its slim-mount design allows plenty of extra wiring space which can be helpful.

The IR-350 is designed to mount in a 1/2 inch diameter hole in a cabinet, wall, ceiling, speaker, or any other available option. Mounting choices are limited only by the installer's creativity. Two lens are supplied, they both work equally well, choose the one that best suits your installation.

It's best not to mount infrared repeaters pointing directly towards strong sunlight or florescent lighting.

Wiring Recommendations

A low capacitance cable (< 20 pF/ft.) is a good choice for this application. Most installers use standard unshielded CAT5/6 computer network cable. Telephone 4-conductor wire can be used for runs to 100 ft.

CAT5/6 has four twisted pairs. Use one twisted pair for each of the three connections (V+, GND, SIG) if possible. This method allows repeater runs to 1,000 feet and adds reliability to the connections. Single wire connections can be made if necessary and allow repeater runs to 500 feet.

Never install low voltage devices like infrared repeaters inside electrical boxes containing 115-Vac wiring.

Multiple IR repeaters can be installed using either home run wiring or daisy chain wiring. Home run wiring is preferred because it is more reliable, easier to troubleshoot, and easier to modify during system changes.

