

INSTALLATION

IR-250 & IR-350

Infrared Repeaters for Infrared Remote Controlled Systems

Room Placement and Mounting

Infrared repeaters need to be easily accessible and convenient for the homeowner to use. A wall in front of the room's main seating area or a ceiling half way between the seating area and the controlled equipment, in an easy to "hit" location, is a good place to install an IR repeater. IR repeaters work best when the remote control signal travels 30 feet or less.

The IR-250 is designed to be mounted in-wall. This can be done using any standard electrical box or P-ring. The IR-250's slim-mount design affords plenty of extra wiring space which can be helpful when mounting multiple devices in one electrical box. For best appearance mount the IR-250 the same height as the homes in-wall lighting switches.

The IR-350 is designed to be mounted in a 1/2 inch diameter hole. The IR-350 can be mounted in a cabinet, wall, ceiling, speaker, or directly in the equipment rack. Mounting choices are limited only by the installers creativity. For best appearance use the lens (two supplied) that blends best with the mounting location.

Wiring Recommendations

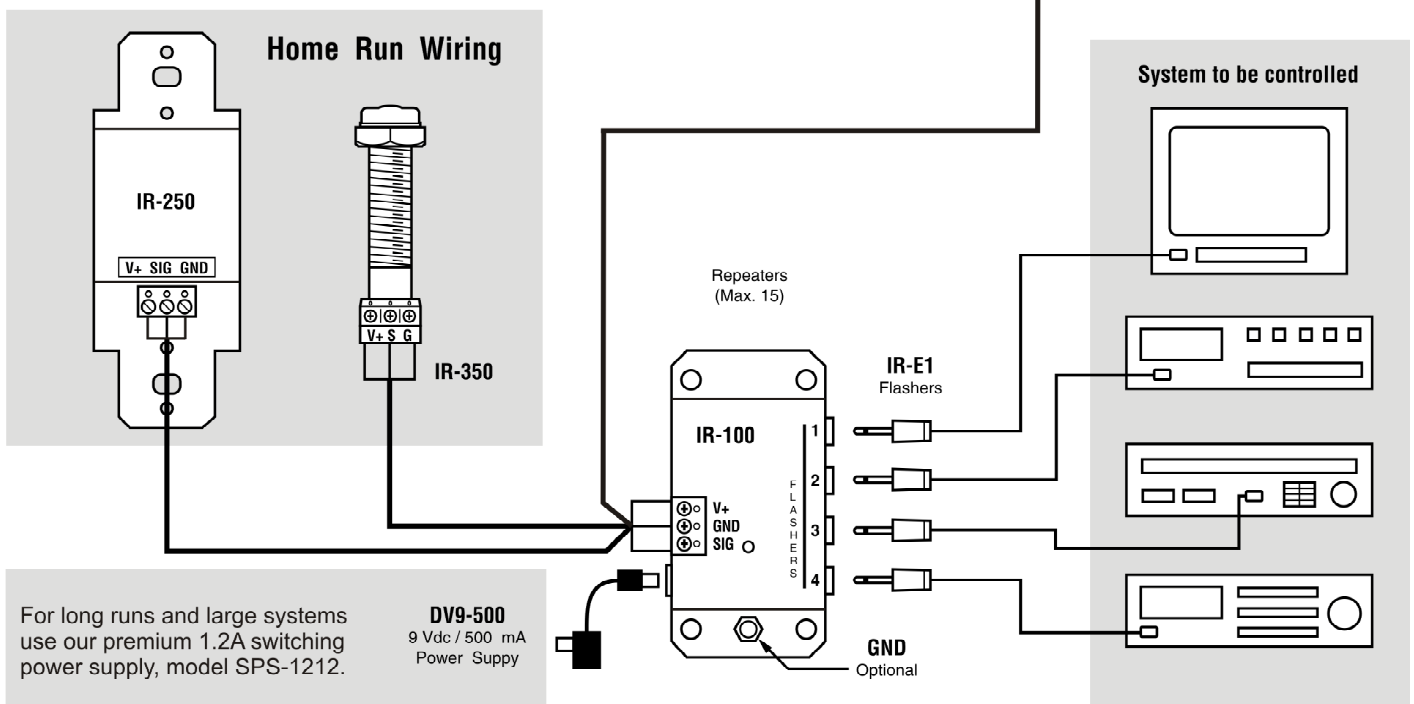
Infrared control signals are similar to digital communications signals. A low capacitance communications cable (< 20 pF/ft.) is a good choice for this application. Unshielded cable will work in all but the noisiest environments, very rarely is a shielded cable required.

Most installers use a good quality CAT5 cable, prewired homes come with CAT5 installed in most rooms. CAT5 is an excellent choice for IR control system wiring.

Use two twisted pairs if possible. The first pair for V+ and SIG and the second pair (both wires) for GND. Doubling the system ground (GND) will add extra robustness to the system's performance, especially for long runs.

Never install low voltage devices, such as infrared repeaters, inside electrical boxes containing 115-Vac wiring. Run infrared control system wiring at least 1 foot away from 115-Vac lines, telephone lines, and speaker wires, this can reduce noise interference. Most low voltage devices can be installed close together with no adverse effects.

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



BUFFALOTM
electronics

www.buffaloelectronics.com
REV-C1 Copyright 2004

Sales, Service, & Distribution

1001-D W. Tremont Avenue
Charlotte, NC 28203
Orders: (888) 822-2410
Support: (704) 375-3445
sales@buffaloelectronics.com

Engineering & Manufacturing

5/11 Moo 1, Soi Phetkasaem 63,
Laksong, Bangkhuae,
Bangkok 10160 Thailand
Phone: 66 (2) 801-7608
Fax: 66 (2) 801-7408