

INSTALLATION

IR-250 & IR-350

High Performance Infrared Repeaters

Thin J-box Mount & Easy Connect 1/2" Tube

Room Placement and Mounting

Infrared repeaters need to be easily accessible and convenient for the homeowner to use. An easy to "hit" location, near the TV/Monitor is a good place to install the 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-250s 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 remote 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.

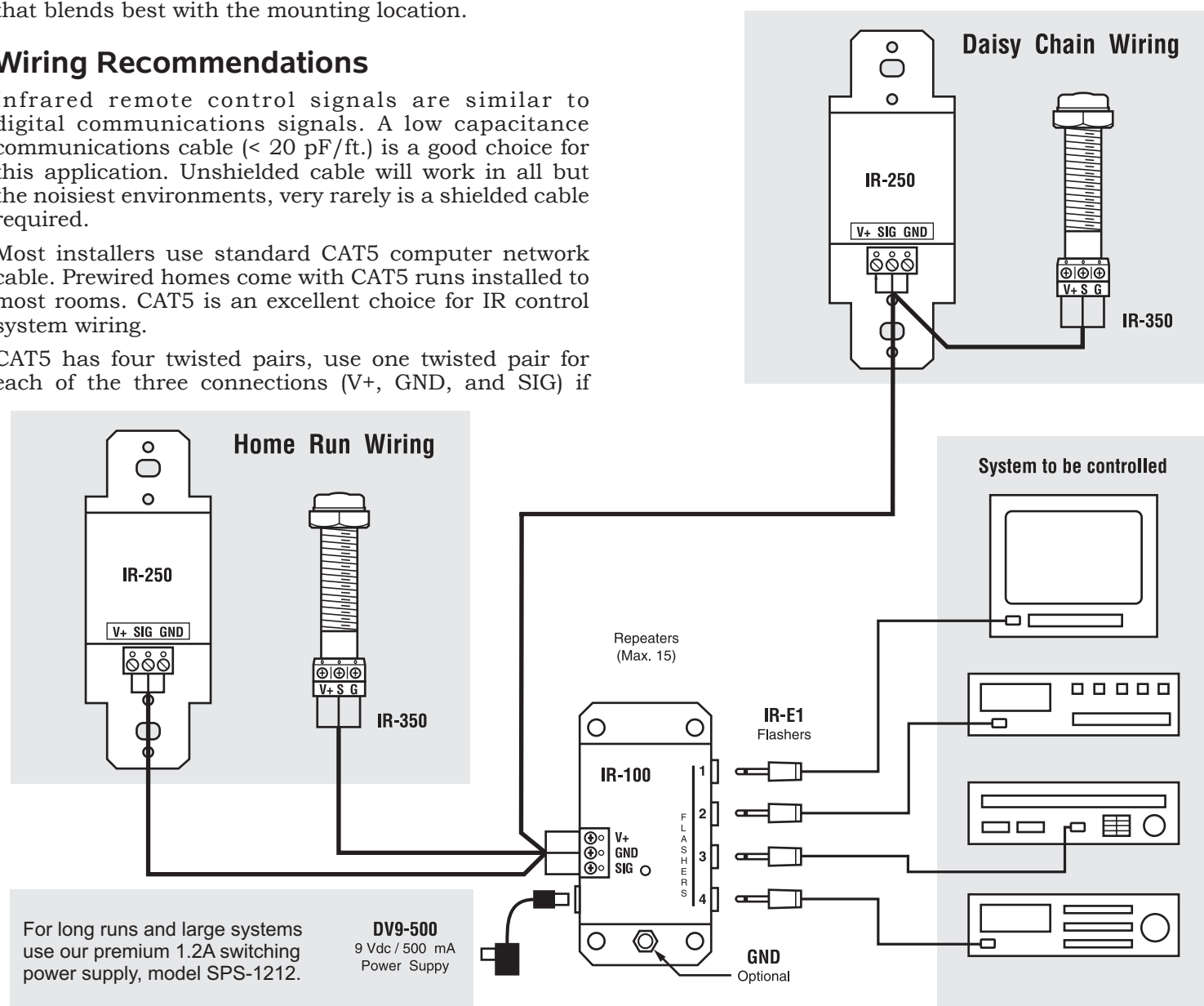
Most installers use standard CAT5 computer network cable. Prewired homes come with CAT5 runs installed to most rooms. CAT5 is an excellent choice for IR control system wiring.

CAT5 has four twisted pairs, use one twisted pair for each of the three connections (V+, GND, and 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 required, this method allows repeater runs in excess of 500 feet.

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.



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