

# INSTALLATION & OPERATION GUIDE



## IRH610

INFRARED SENSOR EXPANSION HUB



BLENDING HIGH FIDELITY AND ARCHITECTURE®

# IRH610

Infrared Sensor  
Expansion Hub

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## Introduction

The IRH610 is an infrared sensor expansion hub that mounts in a structured-wiring cabinet or on a wall. It connects between the output of an infrared sensor and a Niles main system unit.

Niles IR repeating systems are made up of three building blocks:

- IR Main System Unit—Models MSU140, MSU250, MSU480 and MSU440Z.
- IR Sensors/Keypads—Models WS100, TS100, MS100, MS200, CS100, MVC100IR and the IntelliPad®.
- IR Flashers—Models MF1, MF1VF, MF2, MF2VF and the IRB1.

An IR repeater system with multiple sensors connected directly to the main system requires a large number of connecting wires. This creates an unsightly and often inconvenient installation and increases the potential for connection errors.

The Niles IRH610 eliminates such problems. Simply run a single category 5 cable from the main system unit to the expansion hub, and then connect each of the IR sensors to the distribution hub.

## Features and Benefits

The IRH610 offers a number of improvements over other infrared expansion hubs:

- Rustproof, weather-resistant housing of high-impact, injection-molded plastic.
- Removable connector blocks for convenient wire connections.
- Small size and compact footprint, designed specifically to fit into a standard structured-wiring cabinet.
- Snap-in “Christmas tree” plugs (supplied) for quick and easy installation in a structured-wiring cabinet.
- Also suitable for wall-mounting.
- Ideal for home and commercial installations.
- UL-rated to comply with all local building codes.
- 2 years parts and labor warranty.

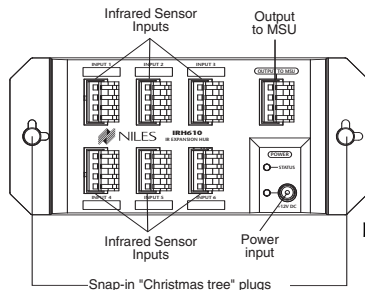


Figure 1

## Installation Considerations

### Type of cable

The IRH610 connects to a Niles main system unit via a single run of category 5 cable.

### “TECH TIP”

When running infrared cable be sure to avoid locating it near AC wiring. This will avoid potential interference over long distances.

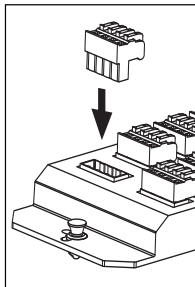
### Mounting Location

The IRH610 is specifically designed to conveniently fit into a structured wiring cabinet with snap-in “Christmas Tree” plugs or it can also be wall mounted in an unobtrusive location.

### Installation

1. Run all necessary wiring to the IRH610. Label the wires for future reference.
2. Secure the IRH610 in a suitable location.
  - In a structured-wiring cabinet, use the convenient snap-in “Christmas Tree” plugs (supplied) to mount it in the cabinet frame.
  - On a wall or other flat surface, remove the snap-in plugs, insert drywall screws (not supplied) through the resulting holes, and secure the screws to the mounting surface. **TAKE CARE NOT TO OVERTIGHTEN THE SCREWS, WHICH COULD DAMAGE THE HOUSING.**

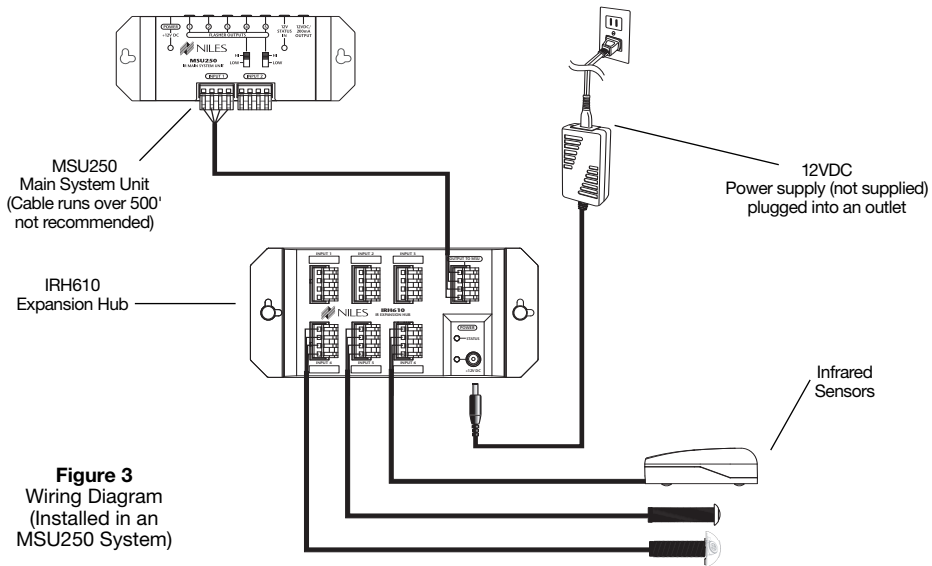
3. Locate the connector plugs (and remove them if they are plugged in).
4. Strip 1/4" of insulation from the end of each wire.
5. Use a small flathead screwdriver or your thumbnail to raise the locking tabs, exposing the holes on the removable connector plug.
6. Insert each wire into the appropriate hole on the removable connector plug, and snap the locking tab down.



**Figure 2**

**NOTE:** To help you, the connector plug is keyed. Insert the smooth side of the connector plug into the smooth side of the socket. Don't force the scalloped side of the connector plug into the smooth side of the socket.

# INFRARED SENSOR EXPANSION HUB



7. Plug the connectors into the IRH610 as shown. (Figure 2) The single connector plug at the upper right is the output to the main system unit. The other connector plugs are the inputs, each leading from a specific infrared sensor. See (Figure 3).

For an operational overview of your infrared repeater system refer to your main system unit manual (MSU140, MSU250, MSU480, MSU440Z).

## Specifications

### Mounting

In a structured-wiring cabinet, using convenient snap-in “Christmas tree” plugs (supplied)

On a wall or other flat surface, secured with drywall screws (not supplied)

### Wiring Requirements

Individual home-runs of category 5 cable from each infrared sensor and a single run of category 5 cable to the Main System Unit.

### Unit Dimensions

6-7/8" wide x 1-1/4" high x 3" deep

## Contents

- IRH610 Infrared Sensor Expansion Hub x 1
- Snap-in “Christmas Tree” plugs x 2
- Removable connector x 7
- Self-Adhesive Rubber Feet x 4



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