



INSTALLATION GUIDE



REMOTE CONTROL ANYWHERE!® KIT

RCA-SM2

CONGRATULATIONS!

Thank you for choosing the **RCA-SM2 Remote Control Anywhere! Kit** from Niles. With proper installation and operation, you should enjoy years of trouble-free use.

Niles manufactures the industry's most complete line of custom installation components and accessories for audio/video systems. To see the complete Niles product assortment, visit us on the internet at: www.nilesaudio.com.

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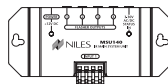
INTRODUCTION

The Niles RCA-SM2 Remote Control Anywhere! Kit enables you to operate your remote controlled audio/video equipment from virtually any location. Now you can place your audio/video (A/V) components out of sight (behind cabinet doors, in the rear of a room, or in a different room) and still conveniently control your system.

CONTENTS

Check that your RCA-SM2 Remote Control Anywhere! Kit contains the following:

- Connection hub
- Surface mount MicroSensor®
- 12VDC power supply
- MicroFlasher® (3)
- CAT-5 sensor cable (50') (15.24 meters)



Connection Hub



**Surface Mount
MicroSensor®**



**12VDC Power
Supply**



MicroFlasher (3)



**CAT-5 sensor
Cable (50ft)**

FEATURES AND BENEFITS – REMOTE CONTROL ANYWHERE! KIT

COMPLETE SYSTEM

Everything needed to assemble a complete IR extender system is included in one box:

ONE INFRARED MICROSENSOR®

Receives/initiates the IR commands and routes them to the Main System Unit

ONE MAIN SYSTEM UNIT

Amplifies and distributes the commands to each infrared MicroFlasher®

IR MICROFLASHER® (THREE)

Transmit the IR commands to the audio/video components

FEATURES AND BENEFITS – IR MICROSENSOR®

HIGH-FIDELITY WIDEBAND DESIGN

Ensures compatibility with virtually any brand of equipment, even those using faster, more difficult to reproduce IR codes

PATENT PENDING UNIVERSAL NOISE SUPPRESSION DESIGN

Enables operation in virtually any IR environment: near plasma and LCD displays, compact fluorescent lights, and direct sunlight

EXTENDED IR RECEIVING RANGE

Enjoy the convenience of 20' to 35' of remote control range (6.1 meters to 10.6 meters)

PRINTED CIRCUIT BOARD

Our printed circuit board uses surface mount technology (SMT) to ensure reliability

COMPACT SIZE

Fits almost anywhere; only 2" wide x 11/16" high x 1/2" deep
(5.08 cm wide x 1.75 cm high x 1.27 cm deep)

EXTRA LONG CABLE

10' of connecting cable is included

FEATURES AND BENEFITS – MAIN SYSTEM UNIT

UNIVERSAL SYSTEM

Compatible with virtually all brands of audio/video equipment and remote controls

VERSATILE CONNECTIONS

Accommodates one IR MicroSensor® with removable screwless connector plus four flashers via 3.5 mm jacks

SYSTEM FEEDBACK LED

Confirms proper operation

3-30V AC/DC STATUS INPUT

Provides system status to connected sensors and keypads

EXPANDABLE

An IRH610 IR Expansion Hub can be used to provide additional inputs

INTEGRATED MOUNTING WINGS

Both horizontal and vertical installation is supported

POWER SUPPLY

UL listed regulated power supply with universal voltage capability

FEATURES AND BENEFITS – MICROFLASHER®

MINIATURE AND DISCRETE

Each MicroFlasher mounts directly to the IR remote sensor window of your audio/video equipment while maintaining a clean appearance

INFRARED BLOCKING COVER

Useful when controlling several identical TVs (or audio/video components) that use the same remote control and IR commands

TRANSPARENT TO IR COMMANDS

Even though the MicroFlasher covers the IR remote sensor window, you can still directly operate your equipment using a remote control

EASY INSTALLATION

A strip of self-adhesive tape provides secure mounting

CONNECTING WIRE

A 10' connecting wire (3 m) is fitted with a 3.5 mm mono mini-plug to provide a secure connection to the MSU

INSTALLATION CONSIDERATIONS

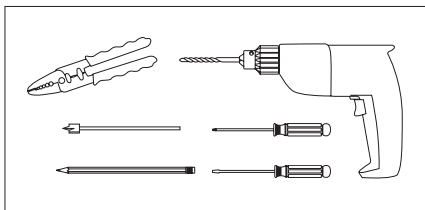
WARNING – TO PREVENT POSSIBLE INJURY, THE FOLLOWING BASIC SAFETY PRECAUTIONS SHOULD BE OBSERVED IN THE INSTALLATION AND USE OF YOUR REMOTE CONTROL ANYWHERE KIT.

- 1. Read through the entire manual – Before attempting any installation, read this manual thoroughly and keep it for future reference.*
- 2. Avoid contact with all high voltage electrical wiring and equipment!*
- 3. Keep away from water and moisture – Never use or install electronic products near water, ie., near a bathtub, sink, washing machine, in a wet basement, near a swimming pool, or anywhere else the product may be exposed to water or moisture.*
- 4. Power supply cord protection – Do not run the power cord where it may be subject to wear or abuse. Do not allow anything to rest on or roll over the power cord which may damage it.*
- 6. Lightning – It is suggested that you remove the power supply from the wall if your system will not be used for long periods of time. Power surges due to lightning strikes may damage your equipment.*
- 7. Check your local building and electrical codes – There may be specific requirements regarding running low voltage in your area.*

INSTALLATION

TOOLS REQUIRED

- *Pencil*
- *Standard screwdriver*
- *Phillips screwdriver*
- *Wire strippers*
- *Drill (and assorted bits)*



GETTING STARTED

While the Remote Control Anywhere! Kit is compatible with most brands of audio/video components, there are a few exceptions. You should perform a temporary hook-up to test for compatibility before you conceal wire or permanently mount any parts.

Steps one through five describe how to perform a quick and easy check for compatibility.

Once you have determined that all of your remote controlled A/V components are compatible, proceed with the rest of the installation.

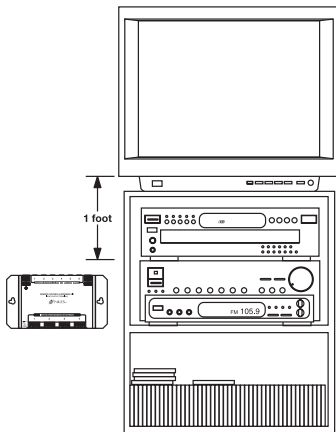


Figure 1 Connection Hub Placement

INSTALLATION

STEP 1 – PLACING THE CONNECTION HUB

Place the Connection Hub so that the MicroFlasher wires will reach the components.

Never place the connection hub closer than 1' away from a television set (Figure 1).

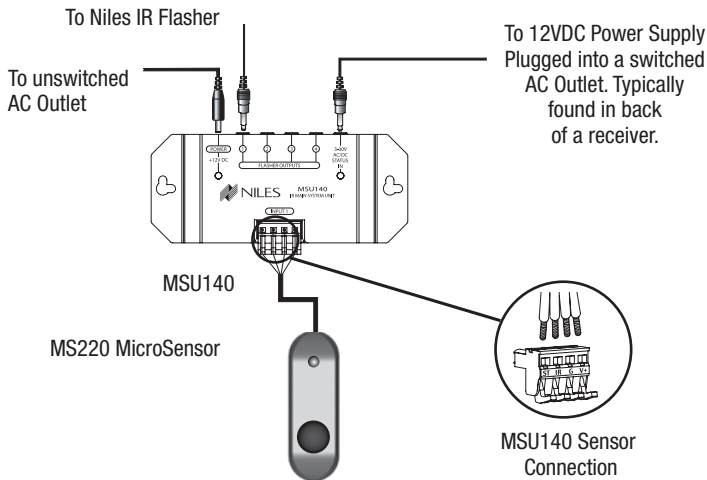


Figure 2: MSU140 Installation

INSTALLATION (CONTINUED)

STEP 2 – CONNECTING THE MICROSENSOR CABLE TO THE CONNECTION HUB

For your convenience, the MicroSensor cable ends have been stripped.

Insert each wire into the appropriate hole on the removable connector plug (**Figure 2**), and snap the locking tab down. 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. Make sure that the orientation of the connector matches the MicroSensor (**Figure 3 & 4**).

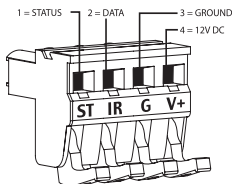


Figure 3: Removable Connector Plug

Red = 12V+

Black = Ground

Yellow = Data

White = Status



Figure 4: Wiring Legend



TECH TIP: Wire size is expressed by it's AWG (American Wire Gauge) number. The lower the AWG number, the larger the wire, i.e., 20 AWG wire is physically larger than 22 AWG.

INSTALLATION (CONTINUED)

STEP 3 – CONNECTING THE 12VDC POWER SUPPLY AND EACH MICROFLASHER

Plug each MicroFlasher into any of the sockets labeled **FLASHER OUTPUTS** on the connection hub (**Figure 5**). Plug the connector on the supplied 12VDC power supply into the socket labeled **POWER** on the connection hub and then plug the wall adapter into a live electrical outlet. The power LED should light. If the LED does not light, confirm that the outlet you used is live by plugging in a lamp.

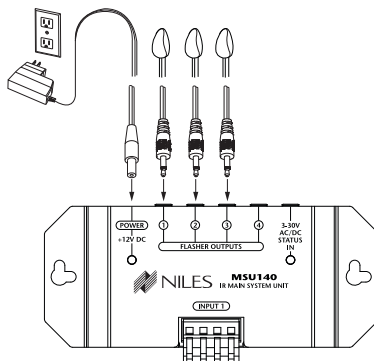


Figure 5: Connection Ports

TECH TIP: Make all final connections to the MSU before connecting the power supply. This will avoid potential damage to components.

INSTALLATION (CONTINUED)

STEP 4 – MOUNTING A MICROFLASHER TO A/V COMPONENTS

Make sure all of your remote controls have batteries and that they are able to operate the A/V components. Locate a place for the remote control that is within arm's length of the A/V components, yet cannot directly control them. Place the MicroSensor no closer than two feet in front of the remote control (**Figure 6**).

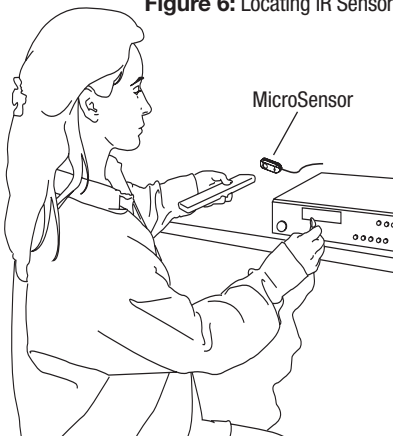
Hold the MicroFlasher four inches in front of the remote sensor window on the A/V component's front panel. Press buttons on the remote control while watching the front panel of the A/V component. When the component responds repeatedly to the commands, peel off the protective backing on the MicroFlasher and place the MicroFlasher in that location.

If the A/V component's remote sensor is not clearly marked, slowly move the MicroFlasher over the window of the A/V component while pushing buttons on the remote control until you get a response (**Figure 7**).

Repeat this procedure for each A/V component you wish to control.

When the A/V component responds repeatedly, peel off the protective backing on the MicroFlasher and place the MicroFlasher in that location.

Figure 6: Locating IR Sensor



INSTALLATION (CONTINUED)

STEP 5 – MOUNTING THE CONNECTION HUB

Make sure that your system tested OK before proceeding.

Once you have decided on the ideal location for the connection hub, unplug the 12VDC power supply from the electrical outlet and disconnect the MicroSensor and the MicroFlasher cables from the connection hub (**Figure 8**). The connection hub can be either mounted on a wall using screws or placed on a shelf using the included adhesive feet (**Figure 9**).

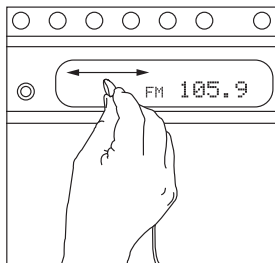


Figure 7: Locating IR Sensor

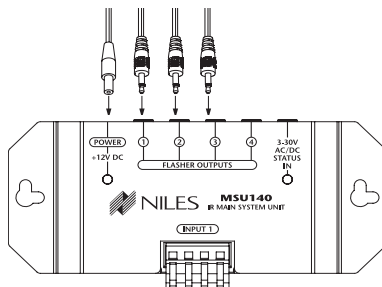


Figure 8: Removing Cables

INSTALLATION (CONTINUED)

STEP 6 – RUNNING THE MICROSENSOR CABLE

Conceal the MicroSensor cable between the MicroSensor and the connection hub. For specific information refer to “Running MicroSensor Cable in New Construction” or “Concealing MicroSensor Cable in Existing Walls.” If you need to cut and restrip the wire, make sure that only 1/4" of wire is exposed. Exposing too much wire could create “shorts” within the system.

IMPORTANT: IF YOU HAVE DOUBTS ABOUT WHETHER YOU ARE CAPABLE OF INSTALLING A NILES REMOTE CONTROL ANYWHERE! KIT IN YOUR WALLS, CONSULT A NILES DEALER OR PROFESSIONAL INSTALLER. THEY HAVE SPECIAL TOOLS, TECHNIQUES, AND EXPERIENCE TO MAKE THE IMPOSSIBLE POSSIBLE. THE INSTALLER CAN PROVIDE YOU WITH AN ESTIMATE BEFORE ANY WORK IS DONE.

Figure 9A & B

A: Wall mounting

B: If you desire to shelf mount the connection hub, stick the included adhesive backed feet on the bottom of the unit and place it on the shelf

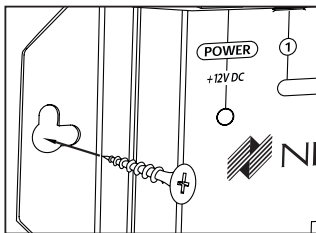


Figure 9A: Wall-mount placement
Use sheetrock screws

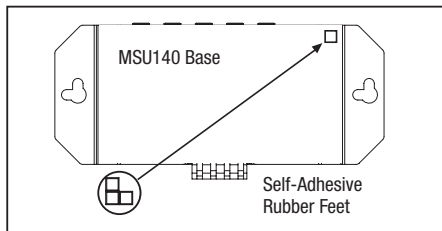


Figure 9B: Table-top placement
Affix the enclosed self-adhesive rubber feet to the base of the MSU140

INSTALLATION (CONTINUED)

STEP 7 – RUNNING THE MICROSENSOR CABLE

Reconnect the MicroSensor plug, flashers and power supply as outlined in steps 2, 3 and 4 (**Figure 10**).

That's it! Now you are ready to control your audio/video equipment from the room you chose.

NOTE: MAKE SURE THAT THE STRIPPED ENDS OF THE WIRE DO NOT COME IN CONTACT WITH ONE ANOTHER OR ANY SURFACE OTHER THAN THE CONNECTOR.

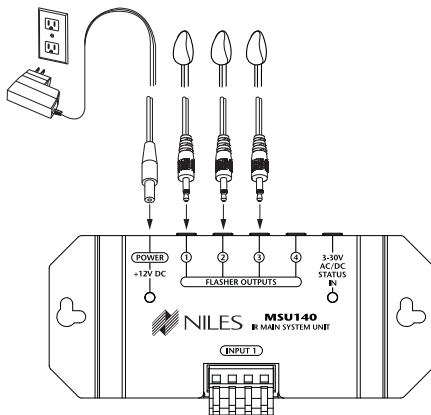


Figure 10: Connecting Power Supply and Flashers

INSTALLATION (CONTINUED)

STEP 8 – MS220 MOUNTING LOCATION

The MS220 is designed to be surface-mounted almost anywhere. Convenient mounting locations for the MS220 include:

- On the front panel of a television set, facing the viewer
- On the front surface of a wall, a cabinet, an appliance, or a speaker grille
- Behind a speaker grille (speaker grilles typically reduce the effective range of an MS220 to 15')

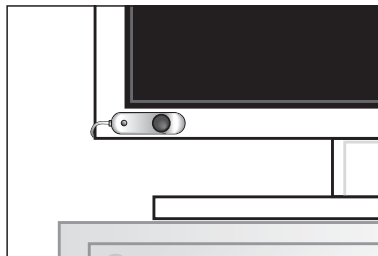


Figure 11: Convenient Mounting Location

NORMAL OPERATION

To control your audio/video components, simply aim your remote control at the MicroSensor.

If you are within range (and your remote control's batteries are fresh), the LED on the MicroSensor will flash a bright blue color each time you press a button on the remote (**Figure 12**).

If you are using a remote control with macro capabilities (a single press of a button issues a string of commands), allow sufficient time for all of the commands to execute.

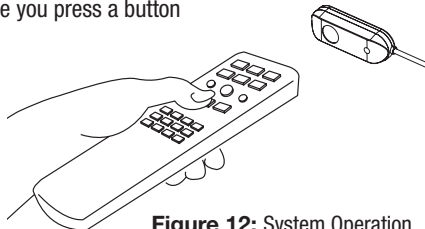


Figure 12: System Operation

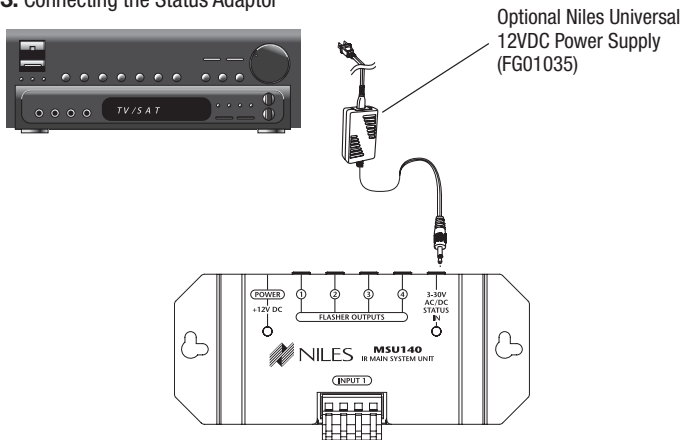
INSTALLATION (CONTINUED)

OPTIONAL ACCESSORIES

STATUS FEEDBACK WALL ADAPTER

The MS220 MicroSensor features a status feedback LED that glows green whenever your system is on. This is a very useful feature when operating your equipment from a remote location. For this feature to work, your system receiver (or preamp) must have a switched AC outlet and you must purchase the optional Status Feedback 12VDC Wall Adapter (FG01035). The Status Feedback wall adapter is plugged into the switched AC outlet of your receiver. The 12VDC output plug is inserted into the connection hub's Status Input (Figure 13).

Figure 13: Connecting the Status Adapter



INSTALLATION (CONTINUED)

ADDITIONAL SENSORS

The Remote Control Anywhere! Kit includes one surface mount MicroSensor. Niles also makes a variety of sensors for virtually any application. See your Niles dealer for more information or visit www.nilesaudio.com.

RUNNING SENSOR CABLE IN NEW CONSTRUCTION

SCHEDULING AND PREPARATION

Plan to schedule the sensor wiring after the electrical wiring is finished. That way you can avoid cable routes which could potentially induce interference over the sensor cable. The basic rules are:

Never run the sensor cable through the same hole as an electrical cable.

Never run the sensor cable into the same J-box as electrical cable.

Avoid running the sensor cable beside the electrical cable. Keep it at least 3 or 4 feet distant from any electrical power cable.

As side-by-side wiring is unavoidable in particular spots in every house, just move the sensor cable route away as soon as possible. If construction forces a side by side run for more than ten feet, install metal conduit or shielded sensor cable. Low-voltage cables such as doorbells, intercoms, telephone, speaker, security, or television cannot cause interference on your sensor cables, so you can safely run all of them at the same time, through the same holes, side-by-side.

INSTALLATION (CONTINUED)

SAFETY FIRST!

Wear gloves, safety goggles and head protection when drilling. Avoid nails, they ruin bits and they can cause injury. Pay particular attention when using “hole-hogs” and other powerful electric drills; the torque of the drill when suddenly stopped by a nail can break a strong person’s wrist.

DRILLING

Use a bit that is large enough for the cables you plan to run. An auger bit is the preferred bit for rough-in wiring. It will actually pull itself through the wood, so that the drill motor, not you, does most of the work.

Always drill the holes in the center of the stud. If you have to notch the stud or drill the hole closer than one inch from the edge of the stud, protect the cable with a nail plate.

When drilling holes in ceiling joists, drill in the center of the joists and try to locate the hole near the end of the joist. **DO NOT drill through a “gluelam” or any load bearing beam without the direction of your contractor.**

Try to line the holes up perfectly, because it makes pulling the cable much easier. A good technique is to snap a chalk line across the face of the studs or against the bottom of the ceiling joists. Then work backward so that you can always see the holes you have already drilled. Paying careful attention to this will save you a lot of time later!

INSTALLATION (CONTINUED)

PULLING THE CABLE

Whenever you run the cable farther than 4-1/2 feet from a hole in a stud or joist (open attic space, going up walls, etc.), fasten the cable to the joists or studs using cable clamps or appropriately sized cable staples. The cable should not have large sags in it, nor should it be too tight. Try to protect the cable from being stepped on in attics or other unfinished crawl spaces. There are guard strips, raceways and conduits which can be used to protect the cable. Consult the local building code for special requirements in your area.

CONCEALING MICROSENSOR CABLE IN EXISTING WALLS

This is actually a fairly simple task if you restrict your choice of the MicroSensor location and cable routes to the interior walls or ceilings of your home. Interior walls in almost all North American residences are hollow, so that it is easy to route new sensor cable around the house. What you see when you look at the painted wall board, plaster, or paneling is only the skin of the wall. Behind the skin is the skeleton; two-by-four wood or metal “studs” running vertically from the floor to the ceiling in walls and 2 x 6 or larger “joists” running horizontally in the ceilings and floors. In between the studs and the joists is the space for the wiring and plumbing of your home.

Exterior walls are different. They must insulate the house from the heat and cold outside, so they are stuffed with insulation. The national building code requires that the hollow wall space in exterior walls be broken by a horizontal stud placed between the vertical studs. This “fire blocking” makes it very difficult to retrofit long lengths of cable. In some areas of the country the exterior walls are constructed of solid masonry, and have no hollow space for cables.

INSTALLATION (CONTINUED)

Start by examining all the possible routes you might take to run the MicroSensor cable from the sensor location to the A/V components to be controlled. Use a stud sensor or other device to locate the internal structure of the wall. You want to avoid all studs or joists. A typical route would be from the MicroSensor location up the inside of the wall to a new hole drilled into the top “plate” (horizontal 2 x 4 at the top of the inside of the wall), into the attic crawl space, then down another plate to the wall behind the stereo system itself. The other very common route is through the bottom plate of the wall into an unfinished basement or crawl space.

Identify where all of your electrical, phone, and TV wiring is likely to be and plan to route around it all. You can accidentally induce interference on your sensor cable right beside electrical cable for more than a few feet. Try to keep sensor cable running parallel to power cables at least 3 feet away. To find exactly where an electrical cable is routed, try inspecting the inside of the wall by turning off the breaker for a particular power outlet or switch, removing the cover plate and switch or receptacle, and shining a penlight into the wall. If you have access to an attic or basement space, you can see which part of the wall space is free of obstructions (**Figure 14**).

When you don’t have access above or below the wall, try to estimate the existing cable and pipe locations from the positions of electrical outlets and plumbing fixtures on both sides of the wall. Also, take a look at the outside of your house, sometimes a conduit, vent or drain pipe will be visible and will offer useful information. Choose the route with the fewest potential obstacles. If your house is built on a slab or you are wiring between two finished floors, look for baseboards which could be removed and replaced with the cable behind them. Doorjams can be removed and often have enough space for sensor cable all the way around the door (**Figure 15**).

INSTALLATION (CONTINUED)

Sometimes, an under-the-carpet run is possible. As a last resort, heating and air conditioning vents can be used as cable raceways for plenum rated cable (check your local building codes, some municipalities require a conduit).

When you are dealing with the unknown because of the structure of your home, or with difficult materials to patch the wall, such as plaster, lath and plaster, faux finishes, wallpaper etc., be patient. A careful study of the potential problems before you start the job will pay off later.

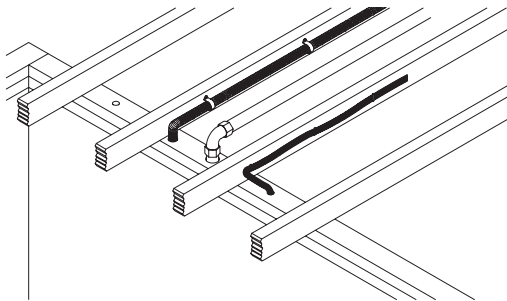


Figure 14: Unobstructed space for MicroSensor cable

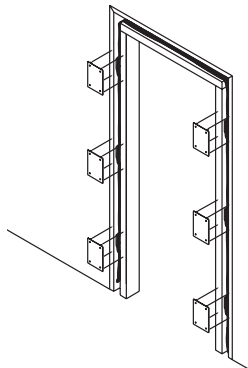


Figure 15: Routing Wire Around a Door

SPECIFICATIONS

MSU140

IR System Compatible with virtually all brands of remotes using carrier frequencies between 25kHz and 90kHz

Wiring Requirements Individual home-runs of CAT-5 cable from each sensor/keypad

Unit Dimensions

4-3/4" wide x 1-1/4" high x 2" deep
(12.07 cm wide x 3.18 cm high x 5.08 cm deep)

Power Requirements

12 vDC power supply (included).

MS220

IR System Compatible with virtually all brands of remotes using carrier frequencies between 25kHz and 90kHz

IR Receiving Range 20' to 35' (6.10 meters to 10.67 meters) depending upon the strength of the remote control

IR Receiving Angle 30° off-axis (horizontal and vertical) at 25' (7.62 meters)

Mounting Surface Mount

Wiring Requirements Individual home-runs of CAT-5 cable

Unit Dimensions

2" wide x 11/16" high x 1/2" deep

MF1

IR System Compatible with virtually all brands of remotes using carrier frequencies between 25 and 90kHz

IR Transmitting Angle Transmits in a "pin-point" transmission pattern (the off-axis power drops off very rapidly)

Unit Dimensions

5/16" wide x 3/16" high x 1/2" long
(.80 cm wide x .48 cm high x 1.27 cm long)



NOTES

[illegible]

LIMITED WARRANTY

Niles Audio Corporation ("NILES") warrants its active products (those requiring AC or battery power) to the original purchaser to be free of manufacturing defects in material and workmanship for a period of two years from date of purchase.

This Warranty is subject to the following additional conditions and limitations. The Warranty is void and inapplicable if NILES deems that the product has been used or handled other than in accordance with the instructions provided by the manufacturer, including but not limited to damage caused by accident, mishandling, improper installation, abuse, negligence, or normal wear and tear, or any defect caused by repair to the product by anyone other than NILES or an authorized NILES dealer.

To obtain warranty service, take the unit to the nearest authorized NILES dealer, who will test the product and if necessary, forward it to NILES for service. If there are no authorized NILES dealers in your area, you must write to NILES and include your name, model and serial number of your unit, along with a brief description of the problem. A factory Return Authorization Number will be sent to you. **DO NOT RETURN ANY UNIT WITHOUT FIRST RECEIVING WRITTEN AUTHORIZATION AND SHIPPING INSTRUCTIONS FROM NILES.**

If the above conditions are met, the purchaser's sole remedy shall be to return the product to NILES, in which case NILES will repair or replace, at its sole option, the defective product without charge for parts or labor. NILES will return a unit repaired or replaced under warranty by shipping same by its usual shipping method from the factory (only) at its expense within the United States of America. **THERE ARE NO OTHER WARRANTIES, INCLUDING WITHOUT LIMITATION, EITHER EXPRESS OR IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, WITH RESPECT TO THE PRODUCT.**

REPAIR OR REPLACEMENT AS PROVIDED UNDER THIS WARRANTY IS THE EXCLUSIVE REMEDY OF THE CONSUMER/PURCHASER. NILES SHALL NOT BE RESPONSIBLE FOR ANY INCIDENTAL OR CONSEQUENTIAL DAMAGES EXCEPT TO THE EXTENT PROVIDED (OR PROHIBITED) BY APPLICABLE LAW.

Some states do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation may not apply to you. This warranty gives you specific legal rights, and you may also have other rights which vary from state to state.

For the name of your nearest authorized NILES dealer, contact:
NILES AUDIO CORPORATION, P.O. BOX 160818, Miami, Florida 33116.

Please fill in your product information and retain for your records.

Model RCA-SM2 Serial No. _____ Purchase Date _____

WARRANTY REGISTRATION CARD

Model Purchased RCA-SM2 Serial Number _____

Date Purchased (month/day/year) _____ Dealer Name and Location _____

☐ Dr. ☐ Miss ☐ Mr. ☐ Mrs. ☐ Ms.

Name _____ Address _____

City _____ State _____ Zip _____ Tel () _____

Age:

- ☐ Under 25
- ☐ 25-34
- ☐ 35-44
- ☐ 45-54
- ☐ 55 & over

Income:

- ☐ Under \$24,999
- ☐ \$25,000-\$44,999
- ☐ \$45,000-\$74,999
- ☐ \$75,000-\$99,999
- ☐ \$100,000-\$129,999
- ☐ Over \$130,000

Occupation:

- ☐ Arts/Entertainment
- ☐ Business Owner
- ☐ Engineer
- ☐ Finance/Accounting
- ☐ General Office
- ☐ Management
- ☐ Professional
- ☐ Sales/Marketing
- ☐ Student
- ☐ Tradesperson

Musical tastes: (Please check all that apply)

- ☐ Alternative ☐ Classical
- ☐ Country ☐ Jazz

- ☐ New Age ☐ Popular
- ☐ R&B ☐ Rock
- ☐ Other _____

How did you hear about Niles?

- ☐ Architect/Developer
- ☐ Custom Installer
- ☐ Direct Mail
- ☐ Friend/Family
- ☐ In-Store Display
- ☐ Interior Designer
- ☐ Magazine Ad
- ☐ Mail-Order Catalog
- ☐ Newspaper Ad
- ☐ Product Brochure
- ☐ Product Review
- ☐ Retail Salesperson
- ☐ E-Tailer

What magazines do you read?

1. _____
2. _____
3. _____

Who will install the product?

- ☐ Custom Installer
- ☐ Electrician
- ☐ Friend

☐ Myself

Which factor(s) influenced the purchase of your Niles product? (Please check all that apply)

- ☐ Ease of Use
- ☐ Price/Value
- ☐ Product Features
- ☐ Quality/Durability
- ☐ Reputation
- ☐ Style/Appearance
- ☐ Warranty

Do you . . . ?

- ☐ Own a House. If yes, how many square feet? _____

- ☐ Own a Town House/Condominium/Co-op
- ☐ Rent an Apartment
- ☐ Rent a House

Are you interested in receiving literature on other Niles products?

- ☐ Yes ☐ No

Are there products/capabilities that you would like to see introduced?



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