MRF-200 INSTALLATION MANUAL



Multi-Room "No-Pointing" RF Control of Audio/Video Components



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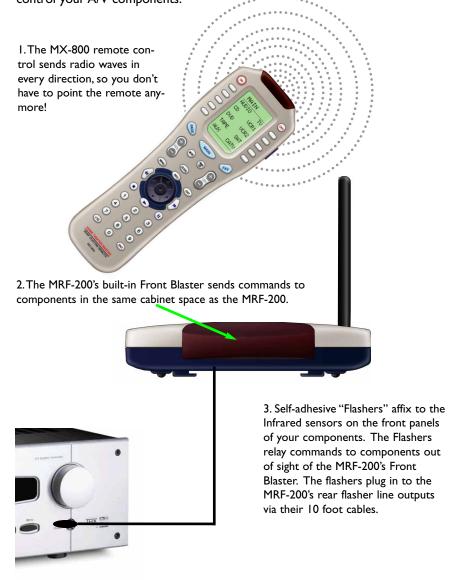
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Introduction

The combination of the MX-800 with it's companion MRF-200 base station will enable you to place your audio/video components out of sight behind closed doors and/or in another room of your house. The MX-800 sends radio signals to the MRF-200 throughout your house (50-100' away, indoors or outdoors). The MRF-200 converts your commands to the infrared signals that control your A/V components.



Features and Benefits

No More Pointing - Radio Waves Penetrate Walls, Doors and Floors

The MRF-200 receives the RF signals of the MX-800 remote control from any direction. You no longer need to point the remote control at any of your A/V components. You can also place the components distracting blinking lights and displays behind closed doors and/or in another room!

Reliable Control Throughout Your House

The MRF-200 receives RF signals from your MX-800 from within a radius of 50 to 100 feet enabling you to control out of sight audio/video components behind walls and closed doors. Range depends on the structure of your home and the amount of interference generated by computers, microprocessors and other devices within and nearby your home.

Up To Sixteen Equipment Locations Controlled From Any MX-800

Each MX-800 can be programmed to operate equipment placed throughout the house, by installing an MRF-200 base station at each location. Each MRF-200 is assigned one of 16 unique ID#'s. In operation it's simple: when you select a device located in the Den, the MX-800 only talks to the MRF-200 in the Den. When you select a device located in the Family Room, the MX-800 only talks to it!

No Pointing Remote Controls In Every Room

You can opt to control a multi-room or multi-zone system via RF remote control by placing an MX-800 in each room of your home.

Control A Media Room Array of Identical TV's

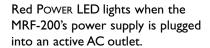
The MRF-200's unique assignable IR flashers enable your installation to control up to six identical TV's. The intelligent routing of the MRF-200 will send your commands only to the TV you select on your MX-800. The other identical TV's will not receive commands. Of course, if your system utilizes identical satellite receivers, cable boxes, VCR's or disc changers you can utilize IR routing just as easily for them. If you have more than six identical components, up to 16 additional MRF-200's can be installed to control them (thus allowing up to 96 identical components in one house).

Parts Guide

The MRF-200 RF Base Station includes:

- I MRF-200 Receiver with integrated antenna
- I Mounting Plate for wall mounting the MRF-200
- 4 Screws for wall mounting the mounting plate
- I 9V-300mA Power Supply
- 6 Flashers with 10 foot plug in cables.

MRF-200 Details



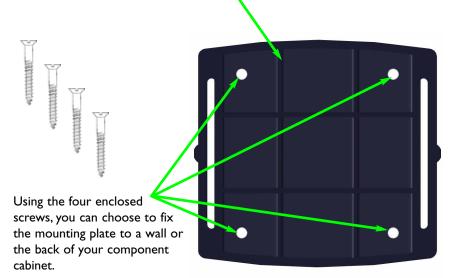
Red STATUS LED lights when the MRF-200 receives an RF signal from the MX-800.

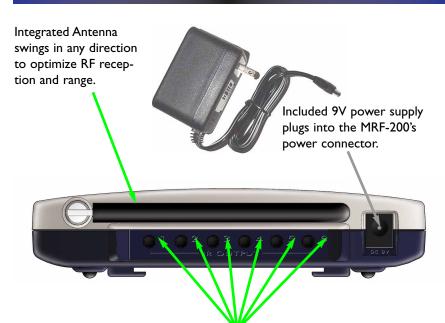


The MRF-200's slots enable the Mounting Plate's matching guides to slide and "snap" into place for mounting on the wall.

Front Blaster sends Infrared commands to all A/V components in the same cabinet space.









Six Rear Flasher Line Output Jacks connect flashers for control of A/V components out of sight of the MRF-200's Front Blaster.

Six Plug-In Flashers are supplied with 10 foot cables and six extra self-adhesive pads (in case a flasher has to be repositioned).

Bottom panel Dial sets the Receiver ID# when more than one MRF-200 receiver is used.



A Standard MRF-200 System

A standard system utilizes no identical components and only one equipment location. However, you can add any number of MX-800 remote controls to your home! MX-800's are available as an accessory purchase without an MRF-200 for standard system installations that already have an MRF-200.

You can add any number of MRF-200 base stations in a standard system as well. If you need more than six flasher outputs you may add additional MRF-200 receivers as needed by ordering an accessory MRF-200 base station.

Do not change the factory default settings in RF Control section of MXEditor when you download to your MX-800's. You do not need to utilize MXEditor's Program Step 9 (RF Control), since the factory settings will work fine!

Standard Installation — Step by Step

Step I - Program and Download to the MX-800

Connect your MX-800 to your PC and program the IR commands and macros as you like. Since your MX-800 sends both IR and RF, you can test your programming as you go by pointing the MX-800 at the components and using MXEditor's TEST and Macro Play features if you place your laptop PC in the same room as the components (with the cabinet doors open and in line of sight).

For a detailed explanation of how to program, use the downloadable Programming Manual or the animated Tutorial. Both are available as free downloads from the www.hometheatermaster.com website.

Important Note: Do NOT power up the MRF-200 at this point. You need to test your IR commands and Macros line of sight via IR only at this point!

Once you have completed and downloaded your programming to the MX-800 remote control, you are ready to test RF operation via the Front Blaster and (if necessary) the self-adhesive flashers that connect to the MRF-200's flasher line outputs.

Step 2 - Place the MRF-200

The MRF-200 should be placed so that the Front Blaster will control as many of the system's A/V components as possible. If you are connecting the outboard flashers to the rear Flasher outputs only, the MRF-200 may be concealed and mounted to the rear wall or back of the system cabinet. The mounting plate slides apart from the receiver, screws to the wall or cabinet

MRF-200 BASE STATION

with the enclosed screws, then the receiver is slid back into place.

Step 3 - Connect the Power Supply and Insert the Batteries

Connect the 9V power supply to an active UNSWITCHED AC outlet. The MRF-200 must always be powered up to operate. The red POWER LED should light. Insert the batteries in the MX-800 remote control.

Step 4 - Test the MX-800

Observe the MRF-200's STATUS LED blinking while you press and hold a programmed button (one with an actual command). This tells you that the MRF-200 is receiving the RF commands of the MX-800.

Step 5 - Orient the Antenna for Optimum Range

If you need to extend the range of the remote, try adjusting the angle of the MRF-200 receiving antenna via it's pivoting ball mount.

Step 6 - Test Operation Without Flashers

With the MX-800's IR output blocked by a jacket or pillow, test the control of your components using just the Front Blaster. In most cabinets, the MRF-200's Front Blaster will control any A/V components in the same cabinet space by reflections from the cabinet walls and doors. Make sure that the components operate with the cabinet doors closed or open. If a component is placed too far away from the front blaster, you will need to utilize the included Flashers plugged into the MRF-200's rear Flasher Line Output jacks.

If you have problems with components that are close to the Front Blaster, see the next page and the section on Front Blaster Overload.

Step 7 - Connect Flashers to Out of Sight A/V Components Important Note: Test the operation BEFORE sticking the flasher in place.

Use a flashlight to identify the correct location of the component's IR sensor, then try a few commands while moving the flasher around the face plate of the component. The most reliable operation typically occurs a half inch or so away from the IR sensor.

Once you have found the spot that gives the most reliable operation, peel off the protective backing of the self-adhesive tape on the included Flashers and stick them in place.

Important Note: Always replace the self-adhesive tabs if you have to reposition a flasher. Six extra self-adhesive tabs are supplied for this purpose.

Front Blaster Overload

A few models of audio/video components can be OVERLOADED by the Front Blaster. If you are having intermittent or inconsistent results with a particular component, try repositioning the MRF-200 and facing the Front Blaster in a different direction. If this improves the situation but is impractical, it may be necessary to utilize the self-adhesive flashers only and follow the steps below to Disable the Front Blaster. This will limit the number of components your MRF-200 can control to six. If you have more than six components you can purchase an additional MRF-200 (available as an accessory alone from your Home Theater Master dealer). Do not change the receiver ID# (use the same ID # as the first unit) then follow the steps on the following pages:

Disabling the Front Blaster - Step by Step

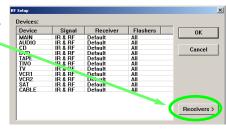
Plug the MX-800 back into the PC. Open your saved configuration and follow these steps to turn off the front blaster:

Step I - Open the RF Setup Window

The RF Setup window opens after selecting RF Control from the Program Menu.



Step 2 - Reveal the Receiver settings Extend the RF Setup window by clicking on the Receivers button.



Step 3 - Turn off the Front Blaster

Click on the cell in the IR Blaster column. A list box will appear. Select OFF from the list.

Next, click on OK to apply your change.



Step 4 - Save and Download to the MX-800

SAVE your changes using File|Save and DOWNLOAD to the MX-800.

Controlling An Array of Identical TV's (or VCR's, Receivers, CD players etc.)

There are several considerations to take into account when you are installing an MRF-200 to control an array of identical components:

- You cannot use the Front Blaster to control identical components. You
 must use Flashers instead. You can still use the Front Blaster in a cabinet
 that is out of sight of the identical components to control the rest of your
 system.
- 2. Each identical component must receive IR commands ONLY from a dedicated Flasher affixed to it's front panel. The IR output of the MX-800 should be disabled for each identical component. It can still be utilized for the rest of your system!
- 3. You must note the NUMBER of the Flasher Output you have utilized for EACH of the identical components.

NOTE: If the identical components are near each other the Flashers and the actual sensor window of the component should be blocked with black electrical tape (sometimes more than one layer is needed).

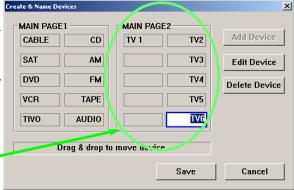
Identical Components - Step by Step

Step I - Create a Device for Each TV in MXEditor

The MX-800 can control up to 20 devices. You must create one device for each of your identical TV's.

In this example, six identical TV's are utilized in a Media Room array.

The programmer has created devices for all of the equipment in the cabinet on Main Page I. On Main Page 2, he/she has created a device for each of the TV's.



Step 2 - Program One Device With IR commands.

Using either the IR Database or Learning, program one of the identical devices to operate one of TV's (leave the others powered off right now). Test all commands and Save your work.

Step 3 - Copy The Programmed Device

In tree view, right click on the device you programmed. From the context menu that appears, select COPY.



Step 4 - Paste The Programmed Device

In tree view, right click on the first device that is NOT PROGRAMMED. From the context menu that appears, select PASTE.

Repeat this PASTE on all of the other identical device. Save your work.

Tour Page Tour Copy Paste Import Device Export Device Delete Contents Delete

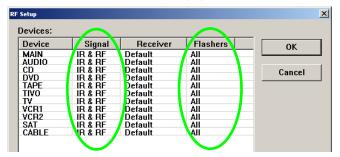
並 😑 TV 1

Step 5 - Open the RF Setup Window

The RF Setup window opens after selecting RF Control from the Program Menu.



The RF Setup window is composed of a "spread sheet" of options for EACH of your devices. By looking at the Signal column, you can see that the factory default programming sets all of the devices to send both IR and RF commands. If you look at the column for Flashers, you can see that the default sends IR commands for all devices to ALL of the flashers. Both options must be changed for identical components. Additionally, if you are not using it, you may wish to disable the Front Blaster (see page 7 for directions).



Step 6 - Adjust the Signal For Each of the Identical Devices

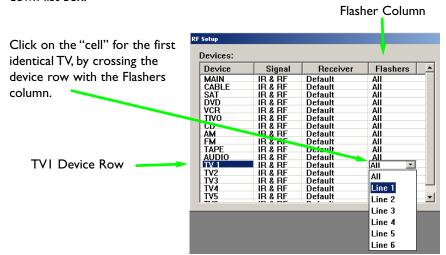
The RF Setup window enables you to adjust the Signal output by the MX-800 for each device individually, by clicking on the intersection of a row and a column and then selecting RF from the three options shown in the pull down list box .

Click on the "cell" for the first Signal Column identical TV, by crossing the RF Setup device row with the Signals col-Devices: Device Signal Receiver Flashers CABLE IR & RF Default SAT DVD VCR IR & RF Default All IR & RF IR & RF IR & RF AII AII AII Default Default TIVO Default IR & RF ΑÏ Default IR & RF Default AII IR & RF Default TAPE IR & RF All Default AUDIO IR & RF Default All TVI Device Row IK & KI Default AII. TV2 TV3 TV4 All Default IR Default RF ΑII Default TV5 Default IR & RF TV6 Default All

Select RF from the three options shown for EACH of the identical TV's. You may leave the other components of the system set to IR & RF.

Step 7 - Adjust the Flashers For Each of the Identical Devices

The RF Setup window enables you to adjust which Flashers output by the MX-800 for each device individually, by clicking on the intersection of a row and a column and then selecting **I-6** from the seven options shown in the pull down list box.



Select the correct Flasher (refer to your connection notes) for EACH of the identical TV's. You may leave the other components of the system set to ALL.

Step 8 - Apply, Save, Download and Test

First click on the OK button of the RF Setup window. Next, Save your work. Finally, download to your MX-800. When you select TVI with your MX-800, commands are only sent to it. Likewise for the rest of your identical TV's!

Programming For Multiple Equipment Locations

You can operate up to 16 different equipment locations, each with an MRF-200 assigned a unique Receiver ID#. You program each of your MX-800's to talk to the equipment locations you want by assigning each of your devices to a receiver. First, you must add and name your receivers for the locations they are placed in:

Step I - Open the RF Setup Window

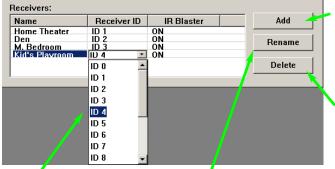
The RF Setup window opens after selecting RF Control from the Program Menu.

Step 2 - Reveal the Receiver settings

Extend the RF Setup window by clicking on the Receivers button of the RF setup window.

Step 3 - Add, Name and Assign Receiver ID#

Using the controls at the bottom extended portion of the RF Control window, add new receivers and rename them for the



Add new receivers by clicking on the Add button.

2 IR Database 3 LCD Button Editor

6 Punch Through 7 SideKick

8 Backlight On Time

5 Macro

Delete receivers by selecting them first by clicking on their Name, then clicking the Delete button.

Assign the correct Receiver ID# for each LOCATION by clicking on the desired CELL and selecting the ID# you want from the pull down list. Each LOCATION should have a unique ID#. It is ok to install multiple MRF-200's in one location.

You may rename the Default receiver to something more descriptive by clicking on the Rename button.



Step 4 - Save and Download to your MX-800's.

Frequently Asked Questions

Can I use flasher/emitters that I have already installed in the system to connect to the MRF-200?

Yes, the flashers are compatible, however flashers from other companies are equipped with a mini plug that is too large to fit the MRF-200's flasher jacks. Use Radio Shack part # 274-327 to convert 3.5mm plug Flasher/Emitters to the MRF-200.

I have a row of identical TV's. I've correctly set the flasher outputs using MX Editor, yet when I send a command to one of them, the TV next to the selected TV also responds. How do I stop this?

Use an opaque material like electrical tape to cover the flasher and the front panel sensor of each of the TV's. Sometimes several layers are necessary.

How can I increase the range of the MX-800?

Often, you can increase range by repositioning the MRF-200 and/or by re-orienting the antenna. Try to avoid placing the MRF-200 directly adjacent to satellite receivers, personal computers or any other component using high speed microprocessors if possible.

Warranty

The MRF-200 is covered against any manufacturers defects or workmanship for a period of one year from the date of purchase if purchased from an authorized Home Theater Master dealer. Units purchased from online auction sites or other unauthorized resellers have no warranty. This warranty does not cover the following items:

- -Damage from misuse, neglect, or acts of nature.
- -Products that have been modified or incorporated into other products.
- -Products purchased more than 12 months ago.
- -Units purchased from unauthorized dealers or companies.

Specifications

MRF-200

Power Supply: 9V 300mA

IR Flasher Line Outputs: 2.5mm Mono Mini Jack

RF Frequency: 418MHz

Size: 5 1/8" x 3.5" x 1.25" (4.5" antenna up)

MX-800

Range: 50 to 100 feet, depending upon the structure of the house and the amount of interference present from computers, microprocessors etc.

Weight: 8 oz. (with batteries)

Size: $9.0" \times 3.0" \times 1.3"$

Batteries: Four AAA Alkaline batteries included

LCD Size: 1.4" x 2.1"





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