

Operating Your System With The MX-900



**COMPLETE
CONTROL**

U-C
Control the Experience.

*This remote control was
Custom Programmed for you by:*

For questions about your Custom Programming call:

Custom Programming of a complex home theater and/or a multi-room system is one of the most challenging tasks within an audio/video installation. It involves an intimate knowledge of how the components interact and exact details on the proper sequences of control.

Only a Complete Control dealer has the requisite experience and training to quickly and effectively customize a remote control for true automated operation.

Congratulations on your choice!

*MX-900 Owner's Manual © 2006-2014 Universal Remote Control, Inc.
Front Cover Photo courtesy of Robert Ridenour of Connected Technologies,
www.connected-technologies.com*

The information in this Owner's Manual is copyright protected. No part of this manual may be copied or reproduced in any form without prior written consent from Universal Remote Control, Inc.

UNIVERSAL REMOTE CONTROL, INC. SHALL NOT BE LIABLE FOR OPERATIONAL, TECHNICAL OR EDITORIAL ERRORS/OMISSIONS MADE IN THIS MANUAL.

The information in this Owner's Manual may be subject to change without prior notice.

*Complete Control is a registered trademark of Universal Remote Control, Inc.
Entertainment Made Simple is a trademark of Universal Remote Control, Inc.*

All other brand or product names are trademarks or registered trademarks of their respective companies or organizations.



*Universal Remote Control, Inc.
500 Mamaroneck Avenue, Harrison, NY 10528
Phone: (914) 835-4484 Fax: (914) 835-4532*

TABLE OF CONTENTS

<u>Congratulations!</u>	1
<u>Custom Labeled Buttons</u>	1
<u>Programmable only by a URC Certified Professional</u>	1
<u>Optional RF “No Rules” Operation</u>	2
<u>Installing Batteries</u>	3
<u>Selecting a New “Activity”</u>	4
<u>Using the MX-900 to Control an “Activity”</u>	5
<u>Displaying the Setup Screen</u>	6
<u>Selecting from the Setup Screen</u>	6
<u>Setting the LCD</u>	7
<u>Sound Volume</u>	11
<u>Light Settings</u>	11
<u>System Settings</u>	12
<u>Version Information Displays</u>	12
<u>Limited Warranty Statement</u>	13
<u>End User Agreement</u>	16
<u>Specifications</u>	16
<u>Federal Communication Commission Interference Statement</u>	17

Congratulations!

You've purchased a unique synthesis of hardware and software engineering, the Complete Control MX-900. The MX-900 achieves a magnificent combination of power and flexibility, simplifying and automating operation of even the most complex system.

One Touch Blue Backlighting

Simply press the LIGHT button to backlight the screen.

Integrated Sound Signaling

The MX-900 incorporates a small speaker for beeps. Anytime you press a button, the MX-900 signals that it has understood your command with a beep sound.

Custom Labeled Buttons

The MX-900 is equipped with a bright easy to read LCD screen which labels the six buttons to the right of the screen. These button labels change based on what you are watching or listening to. Thus, if you have selected Watching TV, you will see a list of buttons that are useful to that activity, while if you select DVD, the buttons will control the DVD.



LIGHT Button

Press the Light button on the side of the MX-900 to backlight the LCD display and all of the buttons.

Programmable only by a URC Certified Professional

To fully automate your audio/video system, the programmer must have detailed knowledge of each component and how the system is connected and operated. Only a trained and certified professional audio/video installer can install a MX-900 remote control in a timely and efficient manner.

Optional RF “No Rules” Operation

In combination with a Complete Control RF Base Station, the MX-900 can control your system without being in line-of-sight of the equipment.

Either the MRF-300 or the MRF-250 RF base station is compatible with the MX-900. Both incorporate RF addressing. RF Addressing gives you the ability to control equipment locations throughout your home, even if they are concealed in other rooms or are behind closed doors.

1. The MX-900 sends radio waves in every direction, so you don't have to point the remote anymore!



2. The RFX-150 RF Sensor can be freely positioned for optimal reception.



3. The MRF-300's built-in Front Blaster sends commands to components in the same cabinet space as the MRF-300.



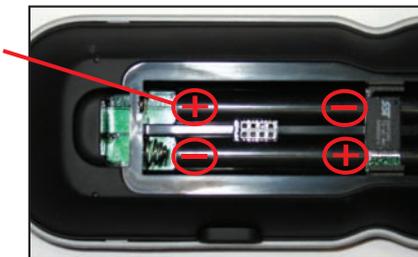
4. Self-adhesive “Flashers” affix to the Infrared sensors on the front panels of your components. The Flashers relay commands to components out of sight of the MRF-300's Front Blaster. The flashers plug in to the MRF-300's rear flasher line outputs via their 10 foot cables. Uniquely, the MRF-300 can also connect to rear panel IR Inputs via its adjustable IR Line Outputs.

Installing Batteries

Open the battery cover by pressing the release and pulling back the cover on the back of the control. Remove the cover.



Observe the + and - polarity indications inside the battery compartment.



Place the four AAA batteries into their positions in the battery compartment observing the + and - polarity indicators on the batteries.



Now, replace the battery cover by inserting the hinged end in first, then snapping the cover back into place.



Selecting a New “Activity”

The MX-900's WATCH and LISTEN buttons display the activities you can control with your MX-900. When you want to watch something else (a DVD movie, a videotape or an HDTV broadcast), simply press the WATCH button and select the new activity. When you want to listen to the radio or to a CD, touch the LISTEN button and select what you would like to listen to.

Your installer will have programmed the button you pressed to totally configure your system to watch or listen to whatever you selected. Now, the screen will change, and all of the LCD buttons will be reconfigured to give you full control of your system while watching or listening to your selection!

When you press the LISTEN button, you can see the most frequently used activities you have for listening in your system.

When you press the WATCH button, you can see the most frequently used activities you have for watching the sources in your system.



PAGE DISPLAY

At the bottom of the LCD screen, the page display informs you if there are other pages of buttons available.



Press either of the PAGE buttons to see any other available choices.

Using the MX-900 to Control an “Activity”

Once you've selected a new activity, the MX-900 displays the title of the activity at the top of the screen. Below the title, the LCD displays the customized names of any special features you need for the activity. All the hard buttons of the MX-900 have now changed to functions optimized for this activity.

The Title displays what activity you can control.

Press either of the PAGE buttons to see any other available choices.

The Volume and Mute buttons always control the sound regardless of what screen is displayed.

The transport buttons (Play, Stop, Skip-, Skip+, FF, REW and Pause) operate when the selected activity requires them (for example, if you watch CABLETV with a TiVo type of DVR, these buttons will control the built-in DVR, while if you are watching a DVD, these buttons will control the DVD player).



The LCD button labels describe special features for this activity.

The Channel and Previous Channel buttons will change channels when you have selected an activity like Watch CABLETV or Watch SAT TV.

The 4 way cursor buttons enable you to navigate on screen guides and menus with ease.

The Number keypad will enter numbers for the activity you've selected. Thus, for watching Cable TV, you use the number keypad to enter channel numbers, while when listening to CD, the number keypad enters track numbers.

Displaying the Setup Screen

You can adjust the settings of the MX-900 whenever you like by pressing and holding both the WATCH and the ENTER button at the same time for three seconds. When you do, the screen will change to the SETUP screen. If you do not press any button on the SETUP screen within 30 seconds, the MX-900 will time out and automatically return to normal operation. You can return to normal operation before that by pressing either the WATCH or the LISTEN button.

At the same time, press and hold both the WATCH button and the ENTER button. When the SETUP screen appears, you can release the two buttons.



Selecting from the Setup Screen

Simply touch the button for the setting you'd like to adjust:



- LCD - The appearance of the screen.
- LIGHT - What the LIGHT button does.
- SOUND - The volume of the beeps.
- SYSTEM - The battery low warning.
- VERSION - No adjustments are possible. Displays factory info.

Setting the LCD

With these settings, you can set the MX-900 to constantly display the LCD when not in use, or show a blank screen when not in use. Additionally, you can control the contrast of the screen.



- To activate the LCD On/Off setting, press this button. See below.
- To activate the CONTRAST setting, press this button. See the next page.
- To activate the BRIGHTNESS setting, press this button. See the next page.
- To exit without saving any changes you have made, press EXIT.

LCD Timer Setting:



- If you set the LCD to OFF, the timer settings will appear. The LCD will go blank after waiting the interval you set here by adjusting the LEFT and RIGHT arrow keys.
- The timer can be set to turn off the LCD between 10 seconds and 20 minutes.
- The Timer Interval is displayed here.
- To SAVE any changes you have made, press SAVE.
- To exit without saving any changes you have made, press EXIT.
- To change the timer interval, press the LEFT or RIGHT arrow keys.

Setting LCD Contrast

You can adjust the contrast of the LCD screen using the LEFT and RIGHT arrow keys once the LCD contrast screen has been selected (shown on the previous page).



The current CONTRAST is displayed here via a bar graph.

To SAVE any changes you have made, press SAVE.

To exit without saving any changes you have made, press EXIT.

Adjust the CONTRAST setting with the LEFT and RIGHT keys as shown in the previous pages.

Setting LCD Brightness

You can adjust the brightness of the LCD screen using the LEFT and RIGHT arrow keys once the LCD Brightness screen has been selected (shown on the previous page).



The current Brightness is displayed here as a bar graph.

To SAVE any changes you have made, press SAVE.

To exit without saving any changes you have made, press EXIT.

Adjust the LCD brightness with the LEFT and RIGHT keys as shown in the previous pages.

Light Settings

You can adjust the backlighting of the remote in two additional ways:

1. You can turn on/off the LCD and the hard button backlighting.
2. You can select the amount of time the lighting stays on after the last button press from a range of values between 10 seconds and 90 seconds.



Change whether the backlighting is on or off by pressing this button.

If you want the backlighting always OFF, set it to OFF.

If you would like the backlighting on, select ON.

The current timer setting is displayed here in seconds.

Adjust the backlighting timer setting with the LEFT and RIGHT keys as shown in the previous pages.

Sound Volume

Your MX-900 beeps whenever a button is pressed. However, you can adjust the volume of the beep to one of four levels as shown here:



The current Beep volume is displayed here as a “bar”.

Adjust the volume of the beep by TAPPING the LEFT and RIGHT arrow keys as shown in the previous pages.

System Settings

You can set your MX-900 to display the Low Battery warning at a power level between 0% and 20% (in 5% increments).



The Power bar indicates available power with Black.

Press here to adjust the battery warning level.

The Memory bar indicates available memory with Black. The memory in use is White.

To exit, press WATCH.

Version Information Displays

Should you be curious, the Version indicates what firmware and software versions were used to program your MX-900.



To exit, press WATCH.

Limited Warranty Statement

1. LIMITED WARRANTY AND DISCLAIMERS

Universal Remote Control, Inc. ("URC") warrants that URC equipment purchased directly from URC or from an authorized URC dealer or distributor shall be free from defects in material and workmanship under normal usage for a period of one (1) year from the date of purchase of the product by the end-user, but no longer than thirty-six (36) months from the date of shipment of the URC equipment by URC to an authorized URC dealer or distributor, except that with respect to Total Control® whole-house products, the warranty extends for two (2) years from the date of purchase by the end-user, but no longer than forty-eight (48) months from the date of shipment of the URC equipment by URC to an authorized URC dealer or distributor.

This limited warranty is valid only in the United States of America.

URC equipment purchased from other than an authorized URC dealer or distributor is without warranty.

URC warrants that the software will substantially conform in any material respect to its functional specifications at the time of delivery. URC SHALL NOT BE LIABLE FOR OPERATIONAL, TECHNICAL OR EDITORIAL ERRORS AND/OR OMISSIONS MADE IN THE URC DOCUMENTATION. URC DOES NOT WARRANT THAT THE URC SOFTWARE IS BUG-FREE OR ERROR FREE OR THAT THERE ARE NO ERRORS/BUGS IN THE URC SOFTWARE.

URC warrants that at the time of purchase the URC equipment and the URC software complied with all applicable regulations and policies of the Federal Communications Commission ("FCC") regarding electromagnetic interference caused by electronic/computing devices and to the extent that the URC equipment and/or the URC software fails to so comply, URC shall, at its own expense, take all reasonable measures to promptly cause such to comply.

THIS LIMITED WARRANTY DOES NOT COVER TECHNICAL ASSISTANCE FOR HARDWARE OR SOFTWARE USAGE EXCEPT AS EXPRESSLY PROVIDED FOR HEREIN.

CERTAIN IMPLIED WARRANTIES, INCLUDING AN IMPLIED WARRANTY OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, MAY BE AVAILABLE WITH RESPECT TO URC EQUIPMENT. IMPLIED WARRANTIES VARY FROM STATE TO

STATE. URC EXPRESSLY LIMITS THESE IMPLIED WARRANTIES, TO THE EXTENT ALLOWABLE BY LAW, TO THE TIME PERIODS COVERED BY THE EXPRESS WRITTEN WARRANTIES PROVIDED HEREIN. OTHERWISE AND EXCEPT AS PROVIDED FOR HEREIN, URC EXPRESSLY DISCLAIMS ALL WARRANTIES, EXPRESS, STATUTORY OR IMPLIED, AND MAKES NO REPRESENTATIONS REGARDING THE USE OF, OR THE RESULTS OF THE USE OF, THE EQUIPMENT, SOFTWARE OR DOCUMENTATION IN TERMS OF CORRECTNESS, ACCURACY, RELIABILITY OR OTHERWISE.

EXCEPT AS EXPRESSLY PROVIDED FOR HEREIN, TECHNICAL SERVICES ARE SUPPLIED "AS IS", WITHOUT ANY WARRANTY, EXPRESS, STATUTORY OR IMPLIED, OF ANY KIND. TO THE MAXIMUM EXTENT PERMITTED BY APPLICABLE LAW, URC EXPRESSLY DISCLAIMS ALL WARRANTIES RELATING TO TECHNICAL SERVICES, EXPRESS, STATUTORY OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF QUALITY OR REASONABLE SKILL AND CARE, OR OUTCOME OR RESULTS.

WITHOUT IN ANY WAY LIMITING THE GENERALITY OF THE OTHER PROVISIONS HEREIN, THIS LIMITED WARRANTY DOES NOT COVER: (I) DAMAGE FROM MISUSE, NEGLIGENCE OR ACTS OF NATURE, (II) MODIFICATIONS, (III) INTEGRATION WITH THIRD PARTY CONTENT, OR (IV) BEYOND THE WARRANTY PERIOD AND/ OR FAILURE TO FOLLOW URC WARRANTY CLAIM PROCEDURE.

The warranty limitations and warranty disclaimers may not apply to end user in whole or in part, where such are restricted or excluded by applicable law, and such shall apply to the maximum extent permitted by applicable law.

In the event of any warranty claim, URC will, at its sole option, repair the URC equipment using new or comparable rebuilt parts, or exchange the URC equipment for new or rebuilt equipment. **In the event of a defect, these are the end user's exclusive remedies.**

All the URC equipment returned for service, exchange or repair require an RGA number. To obtain an RGA number, you must complete a Return Request Form which you may obtain by calling (914) 835-4484 or contacting URC at returnrequest@universalremote.com. To obtain warranty service, end user must deliver the URC equipment, freight prepaid, in its original packaging or packaging affording adequate protection to URC at 420 Columbus Avenue, Valhalla, NY 10595. It is end user's responsibility to backup any macro programming, artwork, software or other materials that may have been programmed into the unit. It is likely that such data, software, or other materials will be lost during service

and URC will not be responsible for any such damage or loss. A dated purchase receipt, bill of sale, installation contract or other verifiable proof of purchase is required. For the URC equipment support and other important information, please visit URC's website available at www.universalremote.com or call the Customer Service Center at (914) 835-4484.

This limited warranty only covers the URC equipment issues caused by defects in material or workmanship during ordinary consumer use. It does not cover product issues caused by any other reason, including but not limited to product issues due to commercial use, acts of God, third-party installation, misuse, limitations of technology, or modification of or to any part of the URC equipment. This limited warranty does not cover the URC equipment sold as used, as is, refurbished, so called "B stock" or consumables (such as batteries). This limited warranty is invalid if the factory applied serial number has been altered or removed from the URC equipment. **This limited warranty specifically excludes the URC equipment sold by unauthorized resellers.**

With the exception of URC's IR-only, broad-based consumer remotes, none of URC's PC programmable remotes or any of our Total Control® whole-house equipment are authorized for online internet sales. Buying URC's PC programmable remotes or any of our Total Control® whole-house equipment online means buying equipment that does not have URC's limited warranty. Such equipment is not eligible for URC tech support or software support, either.

2. URC'S LIMITATIONS OF LIABILITY

IN NO EVENT SHALL URC BE LIABLE FOR INDIRECT, SPECIAL, INCIDENTAL, EXEMPLARY, PUNITIVE OR CONSEQUENTIAL DAMAGES OF ANY KIND OR LOSS OF PROFITS OR BUSINESS OPPORTUNITY, EVEN IF URC IS ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

IN NO EVENT SHALL URC BE LIABLE FOR LOSS OF OR DAMAGE TO DATA, COMPUTER SYSTEMS OR COMPUTER PROGRAMS.

URC'S LIABILITY, IF ANY, FOR DIRECT DAMAGES OF ANY FORM SHALL BE LIMITED TO ACTUAL DAMAGES, NOT IN EXCESS OF AMOUNTS PAID BY END USER FOR THE URC EQUIPMENT.

IN NO EVENT SHALL URC BE LIABLE FOR ANY EVENTS BEYOND ITS CONTROL, INCLUDING ANY INSTANCE OF FORCE MAJEURE.

IN NO EVENT SHALL URC BE LIABLE FOR THE ACTS OR OMISSIONS OF END USER OR ANY THIRD PARTY.

THE LIMITATIONS OF LIABILITY MAY NOT APPLY TO END USER IN WHOLE OR IN PART, WHERE SUCH ARE RESTRICTED LIMITED OR EXCLUDED BY APPLICABLE LAW AND SUCH SHALL APPLY TO THE MAXIMUM EXTENT PERMITTED BY APPLICABLE LAW.

URC SHALL NOT BE HELD RESPONSIBLE FOR THE STATEMENTS MADE BY OTHERS.

SOME STATES OR JURISDICTIONS DO NOT ALLOW THE EXCLUSION OR LIMITATION OF INCIDENTAL OR CONSEQUENTIAL DAMAGES, OR ALLOW LIMITATIONS ON HOW LONG AN IMPLIED WARRANTY LASTS, SO THE ABOVE LIMITATIONS OR EXCLUSIONS MAY NOT APPLY TO END USER. THIS LIMITED WARRANTY GIVES END USER SPECIFIC LEGAL RIGHTS AND END USER MAY HAVE OTHER RIGHTS WHICH VARY FROM STATE TO STATE OR JURISDICTION TO JURISDICTION.

End User Agreement

The terms and conditions of the End User Agreement available at www.universalremote.com/eua.php shall apply.

Specifications

Memory - 4 Megabits of Flash Memory (for User Configuration)

Devices - Flexible, typically can support up to 40 Devices

Pages - Flexible, typically can support up to 40 Pages on each Device

Learning Capability - Standard frequencies (15kHz to 460kHz)

Macro Capability - Up to 255 steps each, however nesting is allowed

IR Range (Line of Sight via Infrared): 30-50 feet, depending on the environment

RF Range (radio frequency): 50 to 100 feet, depending upon the environment

RF Frequency: 418MHz

Weight: 14 ounces (with batteries)

Size: 8" H x 2.25" W x 1.25" D

Batteries: 4 AAA Batteries

Federal Communication Commission Interference Statement

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radiofrequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- ◆ Reorient or relocate the receiving antenna.
- ◆ Increase the separation between the equipment and receiver.
- ◆ Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- ◆ Consult the dealer or an experienced radio/TV technician for help.

Warning

Changes or modifications not expressly approved by the manufacturer could void the user's authority to operate the equipment.

Note : The manufacturer is not responsible for any Radio or TV interference caused by unauthorized modifications to this equipment. Such modifications could void the user's authority to operate the equipment.

FCC Caution

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Any changes or modifications not expressly approved by the party responsible for compliance could void the authority to operate equipment.

The antenna(s) used for this transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

**COMPLETE
CONTROL**™



500 Mamaroneck Avenue, Harrison, NY 10528

Phone: (914) 835-4484 Fax: (914) 835-4532

www.universalremote.com

