

Total control[®]

Owner's Manual

MRX-10 Advanced Network System Controller



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Introduction

The MRX-10 Advanced Network System Controller controls all MRX series connected devices throughout the entire home. Press a button on a Total Control remote or keypad to issue a command from the MRX-10 to turn off the lights in every room all while watching a movie. View the artist name, song title and album art your child is listening to in their room from a Total Control remote or keypad. Also control whole house music from sources such as a DMS-1200, DMS-100, SNP-1 and a PSX-2.

Features and Benefits

- Stores and issues commands and macros for all IP, IR, RS-232, Relay, Sensor and 12V controlled devices to MRX series base stations in one system.
- Provides 2-Way communication with Total Control remotes and keypads.
- Control URC Lighting with an optional RFTX-1 RF Transmitter.
- Can be programmed off premises via the internet.
- Easy rack-mounting via optional RMK-1 rack mounting kit.

Parts Guide

The MRX-10 Advanced Network System Controller includes:

1 - MRX-10 Network System	1 - Ethernet Cable
1 - AC Power Adapter	8 - IR Emitters with standard 3.5mm plugs
1 - Power Cord	
1 - Adjustment Tool	1 - Installation Manual

Front Panel Descriptions

The front panel consists of 2 indicator lights which will illuminate when in use.



Power LED: Indicates that the MRX-10 is powered on when lit.

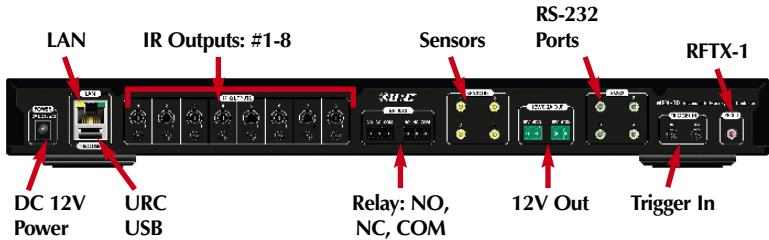
Ethernet LED: Indicates the network connectivity status of the MRX-10. On=Connected, Off=not connected, Blinking=attempting to connect.

Total Control Illumination: Attractive, adjustable accent lighting.

Reset: Press for one second and release to reboot the MRX-10.

Rear Panel Descriptions

The rear panel ports are:



DC 12V Power: Attach the included 12V DC 3.5A power supply here.

LAN Connection: RJ45 standard 10/100 Ethernet connection to the local network.

URC USB Port: USB port for future expansion.

IR Outputs: Eight standard 3.5mm IR emitter ports with individual output level adjustment screws.

Relays NO, NC, COM: Two programmable relays to be normally opened (NO), normally closed (NC) or momentary contacts. An application should be less than 30V/.5A.

Sensors: Four sensor ports allow programming of state dependent and triggered macros. Compatible with URC Video (URC part: VID) and voltage (URC part: VS-100) sensors.

12V OUT: Two programmable 12V/0.2A outputs. Each may be programmed to turn on, off or momentarily toggle its output.

RS-232: Four RS-232 ports support Tx(Transmit), Rx(Receive) and GND(Ground) connections for two way communication. Compatible with URC cables RS232F and RS232M.

Trigger In: IR and RF trigger input ports allow integration with other control systems and remotes.

RFTX-1: Attach an optional RFTX-1 transmitter to control URC Lighting products via 418MHz or 433.92MHz wireless RF.

Specifications

Input & Outputs:

- 12V/.2A: Two (Programmable)
- IR: Eight adjustable output
- USB: One (for future use)
- Ethernet: One 10/100 RJ45 port (Indicator 2LED)
- RS-232: Four, supporting TX, RX and GND
- Sensor: Four, supporting Video or Voltage sensing (requires URC sensors)
- Relays: NO, NC or COM

RF:

- Frequency: 2.4GHz (Two-way RF)
- Range: 50 to 100 feet, depending upon the environment
- Power Supply: 12v DC 3.5A External Power Supply
- Size: 1.7" x 17" x 8.7" (H X W x D)
- Weight: 4.5 lbs. (2.05 Kg)

Limited Warranty Statement

1. Limited Warranty and Disclaimers

Universal Remote Control, Inc. ("URC") warrants that the URC equipment shall be free from defects in material and workmanship under normal usage for two (2) years from purchase when such is purchased from URC. **This limited warranty is valid only in the United States of America.** 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.

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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 the 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 a 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.

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 radio frequency 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 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.

Federal Communication Commission (FCC) Radiation Exposure Statement

The device and the antenna for this device must be installed to ensure a minimum separation distance of 20 cm more from a person's body. Other operating configurations should be avoided.

Regulatory Information to the user

■ CE Conformity Notice

Products with “CE” marking comply with the R&TTE Directive 1995/5/EC, EMC Directive 2004/108/EC and Low Voltage Directive 2006/95/EEC issued by the commission of the European Community.

1) R&TTE Directive

- LVD : EN 60950-1
- EMC : ETSI EN 301 489-1,3
- RF : ETSI EN 300 220-1,2
: ETSI EN 300

2) EMC Directive


- Emission : EN 55022
- Immunity : EN 55024
- Power : EN-61000-3-2, 3

Use only with EN60950-1 approved as Limited power source and double insulation(□) marked power adaptor & same ratings described on the product label (12Vdc,3.5A).

■ Declaration of Conformity

“Hereby, Universal Remote Control Inc. declares that this MRX-10 is in compliance with the Essential requirements and other relevant provisions of Directive 1999/5/EC.”



Certification	CE 0197
Type No.(Model No.)	MRX-10
Batch/Serial No.	-
Power Rating	12V  3.5A
Frequency band	2.45GHz

Declaration of Conformity

Company Name : Universal Remote Control Inc.
 Company Address : 500Mamaroneck Avenue, Harrison, NY 10528, U.S.A
www.universalremote.com
 Contact Information : Phone: (914)835-4484 Fax: (914)835-4532
 Brand Name : UNIVERSAL remote control
 Product Name : NETWORK BASE STATION
 Model Name : MRX-10

This product herewith complies with the requirements of EMC Directive (2004/108/EC) and R&TTE Directive(1995/5/EC) issued by the Commission of the European Community

Compliance with these directives implies conformity to the following European Community

- EMC Directive
 - EN 55022
 - EN 55024
 - EN 61000-3-2
 - EN 61000-3-3
- R&TTE Directive
 - EN 60950-1
 - ETSI EN 301-489-1,3
 - ETSI EN 300 220-1,2
 - ETSI EN 300

List of test reports and/or certificate verified compliance with the standards above

- EMC Directive
 - Report No.
 - Testing Laboratory : Gumi College EMC Center
- R&TTE Directive
 - Certificate No.
 - Certificate Body : TUV Rheinland (No. 0197)

Date of issue : _____ November 30, 2010 _____

Name and signature of authorized person : _____ James Novak _____
 Senior Product Manager
 Universal Remote Control Inc.



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