



## APPENDIX G

### : USER'S MANUAL



## MRX-30 OWNER'S MANUAL

# TOTAL CONTROL 2.0

## MRX-30 OWNER'S MANUAL

### **Introduction:**

The MRX-30 Advanced Network System Controller controls is designed to meet the needs of large residential or small commercial environments.

Only Total Control 2.0 software, products, and user interfaces are supported by this powerful device.

### **Features and Benefits:**

- **Stores and issues** commands for all IP, IR, RS-232, Relays, Sensors, and 12V Triggers controlled devices.
- Provides **two-way** communication with Total Control 2.0 remotes and keypads.
- Easy rack-mounting via the included rack mounting ears.

### **Parts List:**

The MRX-30 Advanced Network Controller includes:

- |                               |                                    |
|-------------------------------|------------------------------------|
| ● 1x MRX-30 System Controller | ● 1x Adjustment Tool               |
| ● 1x AC Power Adapter         | ● 1x Ethernet Cable                |
| ● 1x Power Cord               | ● 12x IR Emitters 3.5mm (standard) |

# TOTAL CONTROL 2.0

## MRX-30 OWNER'S MANUAL

### Front Panel Descriptions:

The front panel consists of three (3) indicator lights which illuminate during usage:

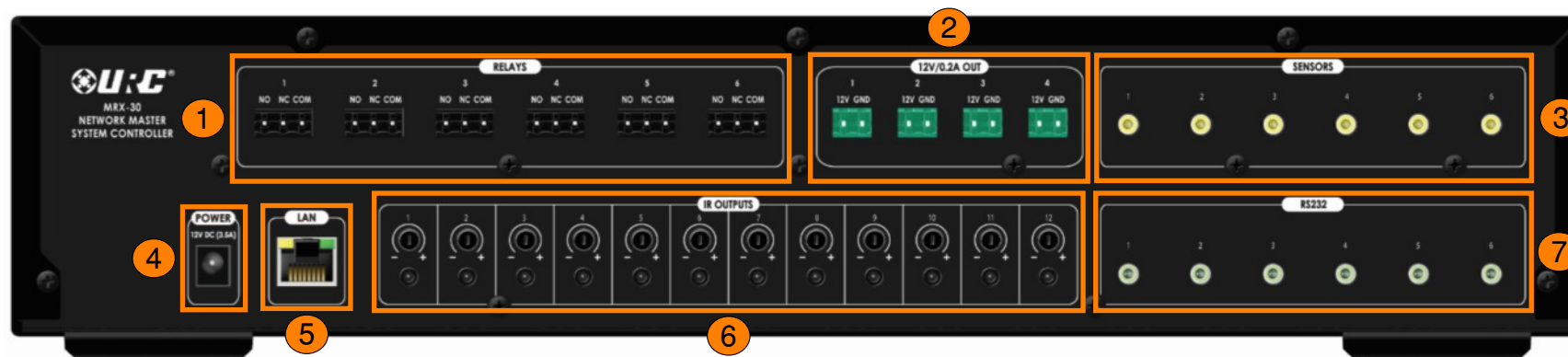
1. **Power:** Indicates that the MRX-30 is powered when illuminated.
2. **Ethernet:** When the device has a valid Ethernet connection the indicator light remains a solid blue.
3. **Status Light:** There are four (4) possible states:
  - **On:** Connected to LAN and internet.
  - **Off:** Connected to LAN, no internet, or Ethernet cable unplugged.
4. **Reset:** Press to power cycle the device.



### Rear Panel Description:

The rear panel ports are:

1. **Relays:** NO, NC, or COM: six (6) programmable relays.
2. **12V OUT:** four (4) programmable outputs. Each may be programmed to turn on, off, or momentarily toggle.
3. **Sensors:** six (6) sensor ports allow programming of state dependant and triggered macros. Compatible with all URC sensors.
4. **Power:** Attach the included power supply here.
5. **LAN:** RJ45 10/100/1000 Ethernet port.
6. **IR Outputs:** twelve (12) standard 3.5mm IR emitter ports with individual output level adjustment screws.
7. **RS232:** six (6) RS-232 ports, supports TX, RX, and GND connections for two-way communications.



## Specifications:

**Microprocessor:** I.MX6Quad 1.2GHz

**Memory:** 8GB eMMC, 2GB RAM

**Network:** One 10/100/1000M RJ45 Ethernet port (two LED indicators)

**Weight:** 99.15 oz

**Size:** 16.92" (W) x 3.7" (H) x 8.66" (D)

**Power:** DC 12V/3.3A

## 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 one (1) year 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](mailto: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](http://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 Page 36 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

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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](http://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.

### **Regulatory Information to the user**

- **CE conformity Notice**

Products with "CE" marking comply EMC Directive 2014/30/EU issued by the commission of the European Community.

1. EMC Directive

- ☐ Emission
- ☐ Immunity
- ☐ Power

- Declaration of Conformity

"Hereby, Universal Remote Control Inc. declares that this MRX-30 is in compliance with the Essential requirements