

MRX-8 Owner's Manual

TOTAL CONTROL



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	Table of Co	ntents	
Introduction			1
Front Panel Description			2
Rear Panel Description			3
Installing the MRX-8			4
Network Installation			4
Connecting IR Emitters	POWER ETHERNET	<u>**///-/</u> **	
Connecting RS-232 (Serial)			
Specifications			7
Limited Warranty Statement			7





OWNER'S MANUAL

MRX-8

TOTAL CONTROL

Introduction

The MRX-8 Advanced Network System Controller controls is designed to meet the needs of large residential or small commercial environments.

Only **Total Control** 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** user interfaces. (remotes and keypads).
- Easy rack-mounting via the included rack mounting ears.

Parts List

The MRX-8 Advanced Network Controller includes:

- 1x MRX-8 System Controller
- 5x IR Emitters 3.5mm (standard)

• 1x Power Cord

• Sleeved Emitter for RFTX-1 port

• 1x Adjustment Tool

• Wall Mount and 4x Screws

• 1x Ethernet Cable







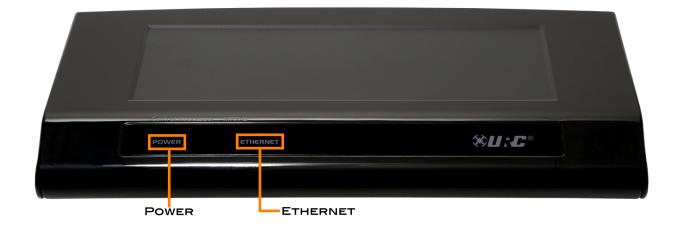
MRX-8 Owner's Manual

TOTAL CONTROL

Front Panel Description

The front panel consist of two (2) indicator lights that illuminate during usage:

- 1. **Power:** Indicates that the MRX-8 is powered when illuminated.
- **2. Ethernet:** When the device has a valid Ethernet connection the indicator light remains a solid blue.



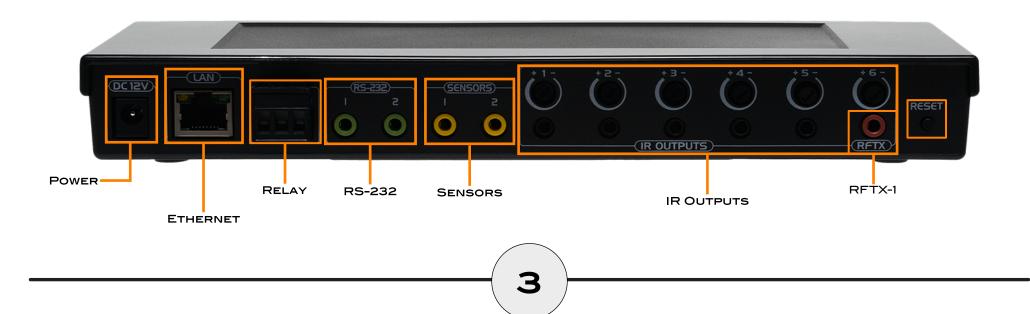


Rear Panel Description

Below are the rear panel ports:

- 1. **Power:** Attach the included power supply here.
- **2.** LAN: RJ45 10/100/1000 Ethernet port.
- 3. Relay: A programmable relay at NO, NC, or COM.
- **4. RS232:** Two (2) RS-232 ports. Supports TX, RX, and GND connections for wired two-way communication.

- **5. Sensors:** Two (2) sensor ports that allow the programming of state dependent and triggered macros. Compatible with all URC sensors.
- **6. IR Outputs:** Six (6) standard 3.5mm IR emitter ports with individual output level adjustment screws.
- **7. RFTX-1:** Attach an optional RFTX-1 transmitter to control URC Lighting products via 418MHz or 433.92MHz wireless RF.
- **8. Reset:** Press once to power cycle the device. Press and hold for 15 seconds to factory default the device.





Installing the MRX-8

The MRX-8 Advanced Network System Controller can be installed almost anywhere in the home.

Once physically installed, it requires **programming by a certified URC integrator** in order to operate local equipment using IP (Network), RS-232 (Serial), IR (Infrared), or relays. All cables must be connected to their respective ports at the rear of the device.

Network Installation

- 1. Connect an **Ethernet cable** (**RJ45**) to the rear of the MRX-8 and the onto an available LAN port of the network's local router (Luxul preferred).
- 2. A certified URC integrator is **required** for this step, configure the MRX-8 to a DHCP/MAC reservation within the local router.









MRX-8 Owner's Manual



OWNER'S MANUAL

MRX-8

TOTAL CONTROL

Connecting IR Emitters

IR emitters are used to communicate to AV devices such as cable boxes, televisions, blu-ray players and more.

1. Plug IR emitters (six (6) supplied in the box) into any of the six (6) IR outputs available on the rear of the MRX-8.

All IR outputs include an adjustable sensitivity dial. Turn this dial to the right to increase the gain and to the left to decrease it.

2. Remove the **adhesive covering from the emitter** and place it over the **IR receiver** of the 3rd party device (cable box, television, etc.).









MRX-8 Owner's Manual

Connecting RS-232 (Serial)

The MRX-8 can operate equipment via RS-232 communication. The allows discrete serial commands to be triggered from the Total Control system.

Connect RS-232 device using URC's proprietary RS-232 cables. These use either male or female DB-9 connections with standard pin-outs.

- 1. Connect the 3.5mm into the RS-232 Output available on the MRX-8.
- 2. Connect the Serial connection onto the **available port** on the 3rd party device, such as AVRs, Televisions, Matrix Switchers, and other devices.







OWNER'S MANUAL

MRX-8

TOTAL CONTROL

Specifications

Network: One 10/100 RJ45 port (Indicator 2 LED)

Weight: 10.5oz

Size: 9.76" X 4.72" X 1.10"

Power: 12V External Power Supply

12V/.2A: Two (Programmable)

IR Outputs: Six adjustable outputs

RS-232: Two, supporting TX, RX, and GND

Sensors: Two, supporting Video or Voltage sensing (requires URC sensors)

Relays: One relay configurable to be NO, NC or Momentary



Limited Warranty Statement

https://www.urc-automation.com/legal/warranty-statement/

End User Agreement The terms and conditions of the End User Agreement available at https://www.urc-automation.com/legal/end-user-agreement/ 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.



MRX-8 Owner's Manual

EMC CENTER		Page: 1 / 28		
	TEST	REPORT		
Order Number	: GETEC-C1-14-	179		
Test Report Number	: GETEC-E2-14-	018		
Type of Equipment	: CENTRAL PRO	DCESSOR		
Model Name	: CP-2			
Trade Name	: UNIVERSAL R	emote Control		
Applicant	: OHSUNG ELE	CTRONICS CO., LTD.		
Applicant Address		: #335-4 Sanho-Daero, Gumi-si, Gyeongbuk, Republic of Korea		
Serial Number	: Prototype			
Date of Incoming	: Apr 16, 2014			
Date of Issue	: May 08, 2014			
IMARY				
s device has been verified t	o comply with the require	ement of following regulation. (EMC directive 2004/108/EC)		
EN 55022 (2010) class B		EN 55024 (2010)		
EN 61000-3-2 (2006) + A1		EN 61000-3-3 (2013)		
AS/NZS CISPR 22 (2009)	+ A1(2010)			
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s not a generality valid asses	sheat of the reatines of th	are respective products of the mass-production.		
his test report consists of 28 j is not allowed to copy this re		the approval of EMC center.		
		1 Andre		
Tested by: X 8	2	Approved by:		
Hyun, Kim / Associate Engineer GUMI COLLEGE EMC CENTER		Jae-Hoon Jeong / Technical Manager GUMI COLLEGE EMC CENTER		
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Warning!

The manufacturer is not responsible for any Radio or TV interference caused by unauthorized modifications to this equipment.

Changes or modifications not expressly approved by the manufacturer could void the user's authority to operate the 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-8 is in compliance with the Essential requirements."