



MRX-5 OWNER'S MANUAL



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TOTAL CONTROL

Introduction

The MRX-5 Advanced Network System Controller controls is designed to meet the needs of residential or small commercial environments.

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

This device is **not compatible** with Total Control 1.0 legacy products.

Features and Benefits

- **Stores and issues commands** for all IP, IR, and RS-232 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-5 Advanced Network Controller includes:

- 1x MRX-5 System Controller
- 4x IR Emitters 3.5mm (standard)
- 1x AC Power Adapter
- Wall Mount and 4x Screws



TOTAL CONTROL

Front Panel Description

The front panel of the MRX-5 Advanced Network System Controller displays the following information:

1. Power LED: Indicates three (3) possible states:

- **Solid Blue:** The device is receiving power and has successfully booted up.
- **Blinking Blue:** The device is receiving power, but is still initializing.
- **Off:** The device is not receiving power.

2. Network LED: Indicates three (3) possible states:

- **Solid Blue:** The device is connected to the network and has received an IP address.
- **Blinking Blue:** The device is connected to the network, but has not yet received an IP address.

This LED **blinks blue** after a Total Control configuration file has been downloaded to the device.

- **Off:** The device is not connected to the local network.



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Rear Panel Description

The rear panel of the MRX-5 Advanced Network System Controller displays the following information:

- 1. DC 12V:** Connect the supplied power adapter to this port, the Power LED becomes solid blue when the device has received power.
- 2. IR Outputs:** Four (4) standard 3.5mm IR emitter ports. IR Output 4 provides variable level adjustment.
- 3. RS-232 Port:** One (1) RS-232 ports support Tx(Transmit), Rx(Receive) and GND(Ground) connections for two way communication.
- 4. USB Port:** Designed for future use.
- 5. LAN Port:** RJ45 standard 10/100 Ethernet connection to the local network.

Compatible with URC cables RS232F and RS232M.

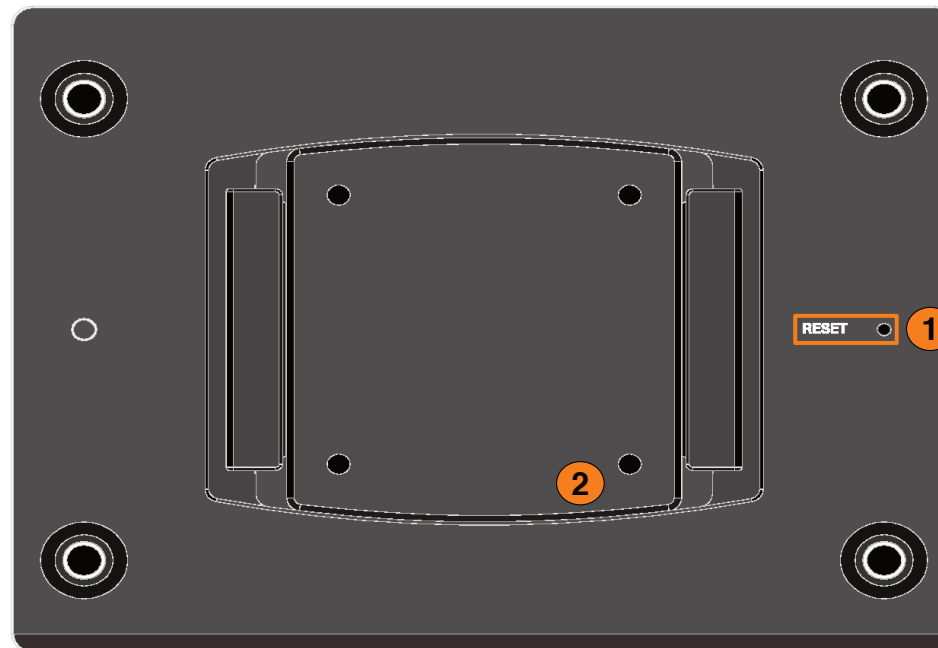


TOTAL CONTROL

Bottom Panel Description

The bottom panel of the MRX-5 Advanced Network System Controller displays the following information:

1. **Reset Button:** Located at the bottom of the device and requires a stylus or paper clip to press. Performs two (2) possible actions:
 - **Single Tap:** Power cycle the device.
 - **Press-N-Hold:** Press this button for 15 seconds to restore the device to its factory settings. This action cannot be reversed and the device **REQUIRES** re-programming with the Total Control software.
2. **Mounting Plate:** Slide the mounting plate up or down to remove it from the device. Use the four (4) supplied mounting screws to mount the MRX-5 on a wall, ceiling, or any other convenient location.



TOTAL CONTROL

Installing the MRX-5

The MRX-5 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-5 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-5 to a DHCP/MAC reservation within the local router.



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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 (four (4) supplied in the box) into any of the four (4) IR outputs available on the rear of the MRX-5.

IR Output **4** includes 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.).



TOTAL CONTROL

Connecting RS-232 (Serial)

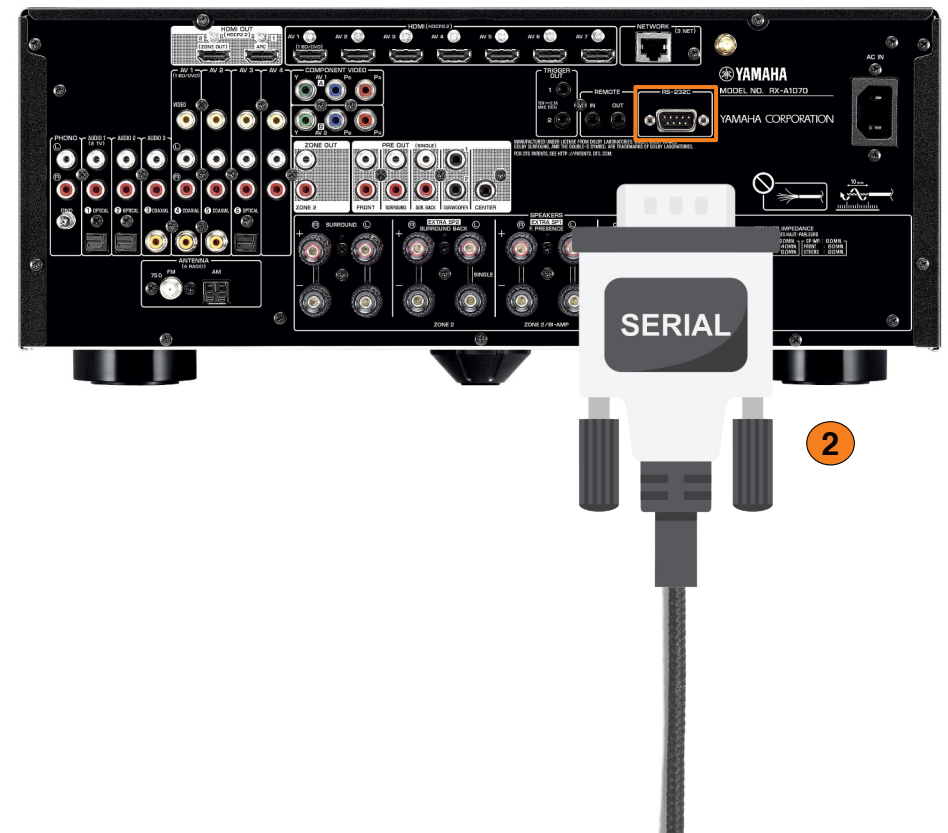
The MRX-5 can operate equipment via RS-232 communication. This allows discrete serial commands to be triggered from the Total Control system.

Connect an 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-5.
2. Connect the Serial connection onto the **available port** on the 3rd party device, such as AVRs, Televisions, Matrix Switchers, and other devices.



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TOTAL CONTROL

Specifications

Network: One (1) 10/100 RJ45 Ethernet port (two LED indicators)

Processor: ARM9 Thumb Processor 400 MHz

RAM: DDR2 256 MB

Storage: e.MMC NAND 4GB

Weight: 6 oz

Power: DC 12V/1.0A

IR Outputs: Four (4) IR outputs (IR attenuator on output 4)

RS-232: One (1) RS-232 port

USB Port: For Future Use



Limited Warranty Statement

<https://www.urb-automation.com/legal/warranty-statement/>

End User Agreement

The terms and conditions of the End User Agreement available at <https://www.urb-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.

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<h2>TEST REPORT</h2>		
Order Number	: GETEC-C1-20-408	
Test Report Number	: GETEC-E2-20-070	
Type of Equipment	: BASE-STATION	
Model Name	: MRX-5	
Applicant	: Summit Technology, Inc.	
Applicant Address	: 08589 Namsung plaza 611, 130, Digital-ro, Geumcheon-gu, Seoul, Republic of Korea	
Serial Number	: Prototype	
Date of Incoming	: Jun. 16, 2020	
Date of Issue	: Jul. 23, 2020	
SUMMARY		
This device has been verified to comply with the requirement of following regulation.		
- EN 55032 (2015)	- EN 55035 (2017)	
- EN 61000-3-2 (2014)	- EN 61000-3-3 (2013)	
- AS/NZS CISPR 32		
The results shown in this test report refer only to the sample(s) tested unless otherwise stated. It is not a generally valid assessment of the features of the respective products of the mass-production.		
The test results of the (*) marked tests are outside the scope of accredited by KOLAS. The test results in this report are traceable to the national or intentional standard.		
It is not allowed to copy this report even partly without the approval of Gumi University EMC center.		
Tested by:	Approved by:	
Sang-Hyun Park / Senior Engineer GUMI UNIVERSITY EMC CENTER	Hyoung-Seop Kim / Technical Manager GUMI UNIVERSITY EMC CENTER	
GETEC-QP-16-007 (Rev.00)		EMC CENTER

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-5 is in compliance with the Essential requirements."