APPENDIX H

: USER'S MANUAL

MXHomePro™

MXHP-H500 (Hub)

Owner's Manual v.1.0

MX-HomePro MXHP-H500 Owner's Manual

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Important Notices

The following sections contain information that is useful to the installer. It's not necessary for you to learn or remember any of the details. However, we still recommend that you read them so that you are fully away of the functions and capabilities of your MX-HomePro system.

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Introduction

The MXHP-H500 (hub) controls the audio/video components in the home by sending infrared (IR) or IP (Internet Protocol) commands over the network via a wired or Wi-Fi connection. In the majority of installations the hub functions with little or no interaction from the end user.

This hub grants the user access to the MX-HomePro mobile app (Entertain) which works in conjunction with the hub to enable one-way control of the audio/video products and two-way control of the connect smart devices in the home.

Adding a handheld MXHP-R500 remote to the system provides the same performance as the Entertain mobile app. The MXHP-R500 is the perfect accessory companion for a television room or bedroom night table.

It's also possible to expand control to other rooms or areas of your home (refer to MX-HomePro Installation Guide). Hubs can be installed in **up to five** rooms using the same local network for Internet access.

Features and Benefits

MX-HomePro is designed to provide the user with the best possible resources for control of the home. Enjoy key features such as:

- **Connect with Wi-Fir or Wired Ethernet**
  The MXHP-H500 grants the smart home professional the flexibility to connect it to router via a hard-wired Ethernet cable or via Wi-Fi.

- **Two-way meta-data feedback**
  Experience real-time two-way feedback right on a smart phone, tablet, or optional MXHP-R500 remote when using compatible smart home devices such as Z-Wave thermostats, lighting, or a selection of compatible IP cameras. Full two-way control of Sonos, Nest, and other compatible modules are also available (refer to Advance Device Integration Guide).

- **Included iOS and Android mobile app**
  Purchase of the hub gives you unlimited free access to the Entertain app. This app can be downloaded on to smart phones or tablets. It communicated through the local network to provide one-way control of all audio/video devices and the same two-way meta-data experience as found on the MXHP-R500 remote.

Parts List

Included in the MXHP-H500 box:

- ❑MXHP-500 Hub
- ❑iOS/Android Mobile App
- ❑12V 1000mA Power Supply
- ❑4x Mounting Screws
- ❑Ethernet Network Cable
- ❑4x Standard Infrared Emitters
- ❑Wall Mounting Plate

Before Getting Started

Prior to installing an MX-HomePro system, there are a few things to remember:

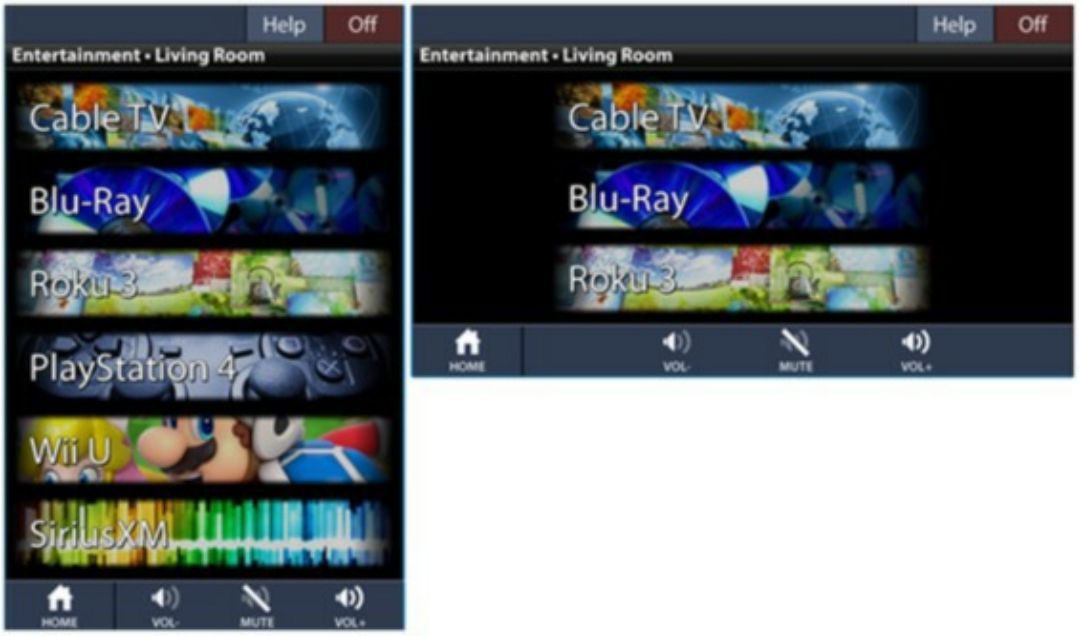
- MX-HomePro systems are designed for use on the home's local network. The hub can be connected to the home network through an Ethernet cable or wirelessly using Wi-Fi.
- Adding a TRF-ZW Z-Wave gateway gives the MX-HomePro system access to control the home's Z-Wave devices such as locks, thermostats, lighting, cameras, and scenes.
- Programing is performed via the web page MX-HomePro Editor portal. The smart home professional must log into this web portal in order to program all applicable MX-HomePro devices. Further enhancements may be added, for all inquiries please contract URC Technical Support.

The Hub (MXHP-H500)

The hub is a network based product that require the use of a previously installed or custom local area Wi-Fi network (LAN).

Do not attempt to disassemble the hub, there are no user-serviceable parts inside. Use only the AC adapter provided by URC. Do not expose for extended periods or time to excessive heat, moisture, or direct sunlight. Clean only with a soft, dry cloth. Unauthorized relocation of this unit may negatively affect the performance of the system.

MX-HomePro Mobile App (iOS & Android)



The **Entertain** app comes free with the purchase of an MXHP-H500 hub; it is available for **iOS and Android**. This mobile app provides full control of the audio/video components in a system without the need of a point and shoot infrared remote.

The mobile app also provides advance control of applicable audio/video devices through the usage of IP commands. These commands communicate over the network to control network based equipment.

Through the usage of the Automate app, control of Z-Wave lights, thermostats, door locks, and IP cameras are accomplished.

MXHP-R500 Remote Control

Using the MX-HomePro MXHP-R500 remote, **sold separately**, with a hub allows for control of home accessories such as lighting, thermostats, and security. It also controls all of the home's audio/video devices.

This is a **Wi-Fi only based** remote and does not use infrared or RF to communicate to any devices. It is the perfect accessory companion for the television room or bedroom night table.

Rear Panel Description

Below are the components that make up the rear of the MXHP-H500 hub:

Infrared Outputs

The rear panel of the hub has four (4) infrared emitter ports, allowing for control of virtually any audio/video device.

Self-adhesive flashers (included) affix to the front panels of the television, Blu-ray player and any other equipment that uses infrared.

Ethernet LAN Connections/Wi-Fi

A standard Ethernet connection port is provided for a hard-wired connection to the local network via a Cat5 cable (included).

The hub also supports wireless (Wi-Fi) connectivity to the same local network

Controlling Other Network Devices (IP Control)

The hub can control other IP controllable equipment (such as various AVRs) that are connected to the same network as the MX-HomePro system. One-way command of these devices can be performed via the Entertain app or the remote control.

DC Power Input

The unit is powered by an AC power adapter that plugs into the input port shown below. Only use the AC adapter that is supplied with this unit.

Front Panel Description

The front panel of the hub houses an infrared blaster, this is used to send out IR commands to components that are in the same cabinet or in line-of-sight range.

This blaster can be enabled or disabled via the MX-HomePro Editor web portal. The smart home professional installer has the flexibility to use either the rear emitter ports or the front panel blaster. However, both cannot be used simultaneously.

An additional feature of the front blaster is the ability to use it for learned commands. If a device is not in the database, use the MX-HomePro Editor and the front blaster to learn commands from the original remote (see MX-HomePro Programming guide).

Top Panel Description

The top panel of the hub contains three (3) LED indicators that displays its status.

Power LED

This LED illuminates blue when the DC power is connected, as shown below.

Status LED

The Status LED has six (6) possible states.

- **Blue**
  - ❑ Steady: Indicates that the hub is connected to the MX-HomePro server and is fully programmed to control the home.
  - ❑ Blinking: Indicates that the hub is being programmed by the MX-HomePro server.
- **Red**
  - ❑ Steady: Indicates that the hub is connected to the MX-HomePro server, but has not been programmed.
  - ❑ Blinking: Indicates that the hub cannot connect to the MX-HomePro server, please check the network connection/settings.
- **Green**
  - ❑ Steady: Indicates that the hub is operating in a secondary room within the system.
  - ❑ Blinking: Indicates that the hub's firmware is currently being updated.

Wi-Fi LED

The Wi-Fi LED has six (6) possible states.

- **Blue**
  Indicates an excellent Wi-Fi signal.
- **Red**
  - ❑Steady: Indicates that the hub is connected with a poor Wi-Fi signal strength
  - ❑Blinking: Indicates that there is an error when connecting to the wireless network.
- **Green**
  Indicates that the hub is connected with a good Wi-Fi signal.
- **Yellow**
  Indicates that the hub is connected with a fair Wi-Fi signal.
- **Off**
  The LED is off when the hub is connected to the router via Ethernet.

Bottom Panel Description

The following pages describe the components that make up the underside of the hub.

Reset Button

A single press of the Reset button REBOOTS the hub, this is similar to unplugging and reapplying the AC power source.

DO THIS ONLY IF INSTRUCTED TO DO SO BY YOUR INSTALLER OR BY MX- HomePro TECHNICAL SUPPORT

Factory Reset

Pressing and holding the Reset button for ten seconds results in setting the MXHP-H500 hub to a factory default state. Meaning all user data and programming are erased and the system requires re-programming.

MAC Address Stickers

Two MAC address stickers are located at the bottom panel of the hub. Use this unique address to identify each hub on the system.

WPS Button

This button provides an easy one button press connection on a WPS (Wi-Fi Protected Setup) ready network. This button is only to be used by the smart home professional.

Removable Mounting Plate

A removable mounting plate along with the four provided mounting screws can be used to mount the hub to a flat surface such as a ceiling, wall, or entertainment center.

Network Installation

The hub can be installed using Wi-Fi or an Ethernet connection, keep in mind the initial programming must be performed with a wired connection.

When being installed for the first time, one of the two following steps must be followed:

Wired Ethernet

Connect the hub to the router using the supplied Ethernet cable. See image below for proper Ethernet placement.

OR

Wireless (Wi-Fi)

1. Connect the hub to the wireless access point by using the WPS button (page 10) and pressing the same button on the wireless access point/router
2. If successfully connected, the Wi-Fi LED glows blue, green, yellow, or red based on the signal strength (page 8)

Setup is now complete, if you wish to set specific network settings, see the following section.

When the Status LED illuminates red, use the remote control or mobile app to set the network properties of the hub (see MX-HomePro Installation Guide). Make sure the remote control or mobile app are on the same network that the hub is hard wired into.

To set the network properties of the hub, insert the battery into the remote control and follow the on-screen prompts (for more details refer to the MX-HomePro Installation Guide).

Hub Programming

Each MXHP-H500 requires professional programming for control of the equipment within the home. Programming the hub is performed through the MX-HomePro Editor web portal. Access it through the following link:

https://www.mxhomepro.com

Once the system has been programmed using the MX-HomePro Editor, a backup of the system file is stored within the MX-HomePro server. This file can be accessed and edited at any time by a smart home professional installer.

If a URC TRF-ZW gateway is added to the system, additional programming and user setup steps may be required (see Advanced Devices Integration Guide).

Specifications	
IR Range (Line of Sight):	30-50 feet, dependant on environment
Macro Capability:	Supports up to 255 steps per macro
Wi-Fi:	IEEE 802.11 b/g/n (**2.4Ghz**)
Size:	1.18”H x 4.63”W x 4.63”D
Weight:	5.19oz
Power	12V DC 1A

Limited Warranty Statement

Click on the section title above to read the full terms and conditions of the Limited Warranty Statement. Also available publicly on the URC home page.

End User Agreement

Click on the section title above to read the full terms and conditions of the End User Agreement. Also available publicly on the URC home page.

Federal Communications 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.

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 conditions:

1. This device may not cause harmful interference
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

This device is approved as a table-top device which is normally operated at 20cm from a person's body.