APPENDIX H

: USER'S MANUAL

TRG-200 Umotion Remote
Owner's Manual

This remote control was Custom Programmed for you by:

- -

For questions about your Custom Programming call:

- -

Custom Programming of a complex home theater and/or a multi-room system is one of the most challenging tasks within an audio/video installation. It involves an intimate knowledge of how the components interact and exact details on the proper sequences of control.

Only a Total Control dealer has the requisite experience and training to quickly and effectively customize a remote control for true automated operation.

Congratulations on your choice!

TRG-200 Umotion Remote Owner's Manual © 2012 Universal Remote Control, Inc.

URC™

Control the Experience.

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Phone: (914) 835-4484 Fax: (914) 835-4532

Congratulations!

Thank you for purchasing the Total Control TRG-200 Umotion Remote. The TRG-200 works to control the MRX-20 Advanced Network System Controller's user interface. View and control your connected devices throughout your home with the user interface via a connected HDTV.

Control the on-screen interface with the remote's built in gyroscopic motion
The TRG-200's built-in gyroscopic motion allows for on-screen control and selection of all your connected devices.

RF "No Rules" Operation
The TRG-200 communicates directly to the MRX-20 via URC's proprietary Umotion RF. This gives the TRG-200 the ability to control your system without being in direct line of sight of the equipment. Use the optional TRF-GE1 to extend two-way communication between a TRG remote and an MRX-20 within a large space.

Requires MRX-20 or compatible MRX Advanced Network System Controller
In combination with an MRX-20 or compatible MRX Advanced Network System Controller, the TRG-200 Umotion Remote can control your home system via the on-screen interface.

Programmable only by URC Certified Professional Programmer
To fully automate your audio/video system, the programmer must have detailed knowledge of each component, LAN configuration, Wi-Fi optimization and how the system is connected and operated. Only a trained and certified professional audio/video installer can install a TRG-200 Umotion remote in a timely and efficient manner.

Parts Guide

The TRG-200 Umotion remote includes:

1 - TRG-200 Umotion remote	1 - Owner's Manual
2 - AA Batteries	1 - Room Labels

Using the TRG-200 Umotion Remote

The TRG-200 remote consists of basic buttons found on many other remotes with the exception of the special Umotion button. Use these functions to control your rooms and connected devices. *All buttons may vary based on your Custom Professional's programming.*

Main
Displays the MRX-20's **Main** menu. *For further details, refer to the MRX-20 Owner's Manual.*

Umotion Control
Opens the MRX-20's on-screen interface and allows for *motion control* and *button selection*.

Volume +/- & Mute
Control the **Volume** while viewing connected devices like Cable, Sat , DVD etc... Also view the on-screen volume status via a display device.

Transport
The **Transport** buttons **(Skip-, Play, Skip+, REW, Pause, FF, Stop and REC)** operate for the device currently in use.

Colored Buttons
Use the **Red, Green, Yellow** and **Blue** buttons for devices like your Cable, SAT or Blu-Ray.

Power
Turns the A/V connected devices in the room ON or OFF.

Navigation
● While watching devices such as Cable, DVD, Sat, etc.., use the **Left/Right, Up/Down** and **Select** buttons to navigate through the device menu.

● While in the Main Menu, use the **Left/Right/Up/Down** and **Select** buttons to navigate via the on-screen interface.

● Use **Menu/Guide/ Info/Exit/Back/Home** to access your device's on-screen displays.

Ch +/- Prev
Change **Channels** while viewing connected devices like Cable, Sat, DVD etc...

Backlight
Illuminates all buttons for 8 seconds.

Number keypad
Enter numbers for the devices you've selected. When watching Cable TV, use the number keypad to enter channel numbers. When listening to a CD, use the number keypad to enter track numbers.
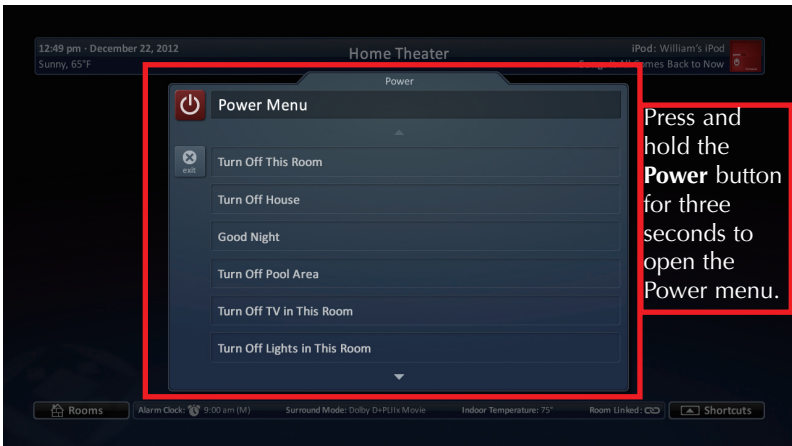
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Using the TRG-200 Umotion Remote (*cont...*)

In addition to the basic options, it is important to know the additional features the buttons listed below provide, when controlling an MRX-20 Advanced Network System Controller.

Power: Turns the connected devices in the room ON or OFF.

● When a room is **OFF:** Pressing **Power** sends out a series of commands to turn ON all required devices to view the on-screen display.

● When a room is **ON:** Pressing **Power** sends out a series of commands to turn off all connected A/V devices in that room, such as a display device or an optional SNP-1 music player.

● Pressing and holding the **Power** button for three seconds displays a programmer customizable on-screen **Power** menu. By default the options are: Turn OFF Room, Turn OFF House. Other options may vary based on the programming. *See Power Menu below.*

Main: Displays the MRX-20's **Main** menu via a connected display device.

- When a display device is **OFF:** Pressing **Main** sends out a series of commands to turn ON all required devices to view the on-screen interface. When the display turns on, the MRX-20 Main menu also opens.

- When a display device is **ON:** Pressing **Main**, while the display device is on, opens the Main menu of the MRX-20.

Umotion: Allows for motion control and button selection via on-screen interface. While viewing a device, press the **Umotion** button to activate on-screen control and open the **Quick Bar** menu. Point the TRG-200 towards the television. As you move the remote, an on-screen pointer will mimic your movements. To select a button, hover over your selection and press the **Umotion** button again. Pressing any button other than Umotion, exits the on-screen interface and motion control.

Note: Using an Internet TV? Keep in mind, the on-screen interface only works with devices connected to the MRX-20 Advanced Network System Controller. If you are using the display device's internal sources, like Internet TV (Netflix, Hulu) or a directly connected device, they will not operate with Umotion.

Installing the Batteries

Open the battery cover by pushing up on the spring lock at the bottom of the cover. Remove the cover.

Observe the + and – polarity indicators inside the battery compartment and the batteries. Place two AA batteries into their positions inside the battery compartment.

Now, replace the battery cover and snap it into place.

Pairing to a TRF-GE1 and/or MRX-20

Before you can begin to use the TRG-200 Umotion remote, it is necessary to pair it with either a TRF-GE1 or the MRX-20 Advanced Network System Controller.

If pairing with a TRF-GE1, press and hold the **pairing** button (located on the bottom of the unit) for three seconds to enter the pairing mode. When the TRF-GE1 enters pairing mode, the **Status LED flashes orange**. A successful pairing is confirmed when the **Status LED flashes green three times**. The MRX-20 is paired, by your Custom Professional, using the URC Accelerator PC software.

To pair the TRG-200, press and hold the **Main** and **Sel** buttons for three seconds. Once paired, the **Umotion** button will flash three times. Keep in mind, a TRG-200 remote can only be paired with one MRX-20/TRF-GE1 at a time. If it is paired with a new MRX-20/TRF-GE1, the previous configuration will no longer work.

Press and hold **Main** and **Sel** for three seconds.

Once paired, the **Umotion** button will flash three times.

Maintaining Your TRG-200 Umotion Remote

The TRG-200 Umotion remote is not waterproof. Do not use it in any location that is damp or wet. If you spill water on it, remove the batteries and let the TRG-200 Umotion remote dry for 48 hours before you try powering it up again. If you spill coffee or another beverage on it, clean it with distilled water. Make sure no water gets inside the TRG-200 Umotion remote. Keep it away from extreme cold or heat. Be careful to not drop the TRG-200 Umotion remote or slam it against anything.

Specifications

Microprocessor: ARM 32-bit Cortex™-M3

Memory: 16 Kbytes SRAM, 128 Kbytes Flash

RF Range(radio frequency): 50 to 100 feet, depending upon the environment

RF Freqency: 2.425~2.475 GHz

Weight: 4.1 oz

Siz: 1.96" X 7.6" X 1.18"

Batteries: AA Battery 2EA

USA Limited Warranty Statement

Your Universal Remote Control, when delivered to you in new condition, is warranted against defects in materials or workmanship as follows: **UNIVERSAL REMOTE CONTROL, INC.** warrants this product against defects in material or workmanship for a period of one (1) year and as set forth below. Universal Remote Control will, at its sole option, repair the product using new or comparable rebuilt parts, or exchange the product for a comparable new or rebuilt product. **In the event of a defect, these** are your exclusive remedies.

This Limited Warranty covers only the hardware components packaged with the Product. It does not cover technical assistance for hardware or software usage and it does not cover any software products whether or not contained in the Product; any such software is provided "AS IS" unless expressly provided for in any enclosed software Limited Warranty.

To obtain warranty service, you must deliver the product, freight prepaid, in its original packaging or packaging affording adequate protection to Universal Remote Control at the address provided in the Owner's Manual. **It is your responsibility to backup any macro programming, artwork, software or other materials that may have been programmed into your unit. It is likely that such data, software, or other materials will be lost during service and Universal Remote Control will not be responsible for any such damage or loss.** Adated purchase receipt, Bill of Sale, Installation Contract or other verifiable Proof of Purchase is required. For product support and other important information visit Universal Remote Control's website: http://www.UniversalRemote.com or call the Customer Service Center (914) 835-4484.

This Limited Warranty only covers product 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 Universal Remote Control product. This imited Warranty does not cover Universal Remote Control products 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 product. This Limited Warranty is valid only in the United States of America. **This Limited Warranty specifically excludes products sold by unauthorized resellers.**

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REV020708

Federal Communication Commission Interference Statement

This equipment has been tested and found to comply with the limits for aClass B digital device, pursuant to part 15 of the FCC Rules. These limits aredesigned to provide reasonable protection against harmful interference in aresidential installation. This equipment generates, uses and can radiate radiofrequency energy and, if not installed and used in accordance with the instructions,may cause harmful interference to radio communications. However, there isno guarantee that interference will not occur in a particular installation. If thisequipment does cause harmful interference to radio or television reception,which can be determined by turning the equipment off and on, the user isencouraged to try to correct the interference by one more of the followingmeasures:

   ◆ 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.

Federal Communication Commission (FCC) Radiation Exposure Statement
This remote device is approved as a hand-held and hand-operated only portable (relative to hand) device which is normally operated at 5 cm from a person's body.

Declaration of Conformity

Company Name	:	OH SUNG ELECTRONICS CO., LTD.
Company Address	:	#181 GONG DAN-DONG, GUMI, GYEONG BUK, REPUBLIC OF KOREA
Contact Information	:	Phone: +82-54-468-7281, Fax: +82-54-461-8368
Brand Name	:	UNIVERSAL remote control
Product Name	:	RF Remote Controller
Model Name	:	TRG-200

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 (2010)
  - ● EN 55024 (2010)

- ■ R&TTE Directive
  - ● EN 60950-1 (2006) + A11 (2009) + A1 (2010) + A12 (2011)
  - ● ETSI EN 301 489-1 V1.9.2 (2011), ETSI EN 301 489-17 V2.2.1 (2012)
  - ● ETSI EN 300 328 V1.7.1 (2006)
  - ● EN 62479 (2010)

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   : SIEMIC (No. 2200)

Date of issue	:	March 16, 2012

Name and signature of authorized person   :   Hak-Ki Kim

General Manager
OH SUNG ELECTRONICS CO., LTD.