



APPENDIX H

: USER'S MANUAL

ZR-1 Z Repeater

Owners Manual



ZR-1 Z Repeater Owners Manual ©2010 Universal Remote Control, Inc.

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Introduction

Congratulations on your purchase of the ZR-1 Z Repeater! The ZR-1 is used to extend the operational range between Total Control products such as the TRC-780 and the MRX-10. Once joined to the MRX-10 it will wirelessly relay communication between an TRC-780 and multiple ZR-1 repeaters.

Features and Benefits

Wirelessly extends the range between Total Control products

- Extend the operational range between a MS-780 remote and a MRX-10 Advanced Network System Controller. Control lighting, music and more from throughout the home.

Additional ZR-1 Repeaters can be joined to create a wireless mesh network throughout the home.

Parts Guide

The ZR-1 Z Repeater includes:

1 - ZR-1 Z Repeater

1 - Wall Mount and 4 Screws

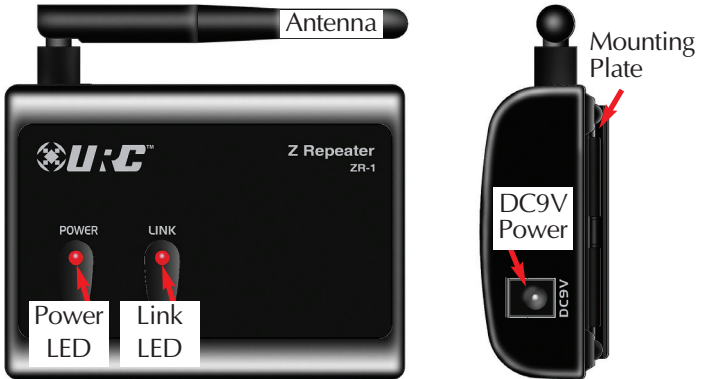
1 - AC Power Adapter

1 - Owner's Manual

ZR-1 Front and Side Panel Descriptions

Front and Side Panel

The front panel consists of 2 indicator lights which will illuminate when in u



Power LED: Indicates that the ZR-1 is powered on when illuminated.

Link LED: Indicates the status of the Z communication connection to the MRX-10. Off = not connected, Blinking = attempting to connect, On Steady = connected.

Antenna: Omnidirectional antenna. Adjust the antenna for best performance. Usually vertical positioning works well.

DC9V Power: Attach the included 9V DC power supply here.

Mounting Plate: May be attached to a wall or other surface with the included screws for easy slide on/off mounting.

Specifications

RF Frequency: 2.45GHz (ZigBee-Pro)

Effective Range: Typically 50-75 ft, depending on environment

Size: L x D x H = 3.625" x 1.125" x 6.625" (with antenna vertical)

Weight: 3 oz.

Power Supply: 9V DC .300mA

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.** A dated 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 Limited 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.**

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.

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

The device and the antenna for this device must be installed to ensure a minimum separation distance of 20 cm or more from a person's body. Other operating configurations should be avoided.

Regulatory Information to the user

■ CE conformity Notice

Products with “CE” marking comply with the R&TTE Directive 1995/5/EC, EMC Directive 2004/108/EC and Low Voltage Directive 2006/95/EEC issued by the commission of the European Community.

1) R&TTE Directive

- LVD : EN 60950-1
- EMC : ETSI EN 301 489-1,3
- RF : ETSI EN 300 220-1,2
: ETSI EN 300

2) EMC Directive

- Emission : EN 55022
- Immunity : EN 55024
- Power : EN-61000-3-2, 3

■ Safety instruction for charging internal rechargeable battery of remote control **Caution**


Use only with EN60950-1 approved as Limited power source and double insulation(□) marked power adaptor & same ratings described on the product label (9DVdc, 300mA).

■ Declaration of Conformity

“Hereby, Universal Remote Control Inc. declares that this ZR-1 is in compliance with the Essential requirements and other relevant provisions of Directive 1999/5/EC.”



Universal Remote Control®

Certification	CE 0197
Type No.(Model No.)	ZR-1
Batch/Serial No.	-
Power Rating	9.0V  , 300mA
Frequency band	2.45GHz (ZigBee-Pro)

Declaration of Conformity

Company Name : Universal Remote Control Inc.
Company Address : 500Mamaroneck Avenue, Harrison, NY 10528, U.S.A
www.universalsremote.com
Contact Information : Phone: (914)835-4484 Fax: (914)835-4532
Brand Name : UNIVERSAL remote control
Product Name : Zig Bee REPEATER
Model Name : ZR-1

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
 - EN 55024
 - EN 61000-3-2
 - EN 61000-3-3
- R&TTE Directive
 - EN 60950-1
 - ETSI EN 301-489-1,3
 - ETSI EN 300 220-1,2
 - ETSI EN 300

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 : TUV Rheinland (No. 0197)

Date of issue : May 30, 2010

Name and signature of authorized person : James Novak
Senior Product Manager
Universal Remote Control Inc.



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