



APPENDIX G
: USER'S MANUAL

DMS-OUT

Owner's Manual



Overview

The DMS-OUT allows 3rd party devices access to the streaming sources in the DMS Audio Network. For example, this device is the perfect solution for adding any new/existing 3rd party AVR, soundbar, or other audio device to the DMS Audio Network.

Online Help:

www.urccontrolroom.com

For software downloads, training materials, and frequently asked questions.

Contact Support:

Total Control is a URC product sold through Authorized Dealers, for questions or assistance contact you Custom Installer/Programmer (write in the company name, email, and contact info):

or URC Technical Support at: techsupport@universalremote.com

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Features and Benefits

The DMS-OUT is loaded with features to provide the perfect audio experience. Enjoy features such as:

- **3rd Party Audio Device Integration**

DMS-OUT grants 3rd party devices the ability to use sources that are available in the DMS Audio Stream.

- **Audio Sensing Capability**

The DMS-OUT, similar to the URC Audio Sensor (SEN-AUD), can detect an audio signal which can then trigger n activity (macro).

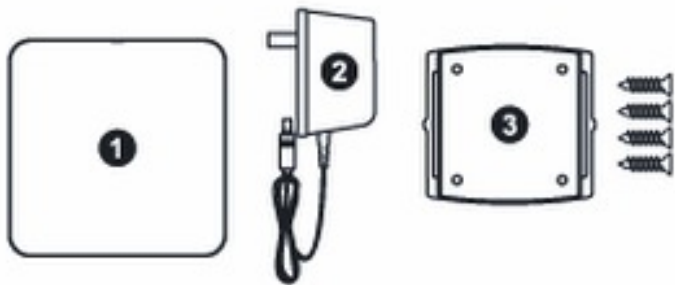
- **Flexible Power Source**

Use the supplied 5V DC power adapter or take advantage of the DMS-OUT's PoE (**P**ower **O**ver **E**thernet) capability using a CAT 5/6 wiring.

Parts & Pieces

Contained within the DMS-OUT box:

1. DMS-OUT Preamplifier Device
2. 5v DC Power Adapter
3. Wall Mount and 4x Screws



Requirements

As with all Total Control products, the DMS-OUT is not a plug-and-play device. It requires programming by a certified Total Control installer in order to work properly.

Be sure the system contains the following:

- MFS-8 or MFSPOE-8
- MRX-10 or MRX-8 Master System Controller
- URC User Interface (TRC-1080, TKP-7000, etc.)

Rear Panel:

5V DC Input:

Provides power to the DMS-OUT. PoE may be used as a substitute.



Analog Input:

Standard RCA (analog) connector.



Digital Input - Optical:

This input uses standard S/PDIF OPTICAL TOSLINK connector.



Note: The DMS-OUT converts Dolby Digital 5.1/DTS 5.1 to a DMS Stream.

Rear Panel Cont.

Digital Input - Coax:

Standard RCA (analog) connector, this receives bitstreams of audio data.



 Note: The DMS-OUT converts Dolby Digital 5.1/DTS 5.1 to a DMS Stream.

LAN Port:

This 10/100 Ethernet port supports PoE and sends the URC Audio stream through the local network, this is also how the DMS-OUT receives commands and sends audio.



 Note: The DMS-OUT does not support Wi-Fi

Top Panel & LED States:

There are three (3) LED lights at the top of the DMS-OUT which can provide users with basic troubleshooting information.

Status LED

- **Off**
Unit has not been programmed with a Total Control file.
- **Yellow**
Unit has been programmed with a Total Control file; however, is not creating a DMS Audio Stream.
- **Blue**
Unit has been programmed with a Total Control file and is creating a DMS Audio Stream through the network.



Power LED

- **Off**
Unit is not receiving power.
- **Blue**
Unit is receiving power via 5V DC adapter or PoE.



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Top Panel & LED States Cont.

Network LED

- **Off**
Unit is not connected to the local area network and cannot send/receive data.
- **Blinking Green**
Unit is connected to the local network, but has not received an IP address.
- **Green**
Unit is connected to the local network and has an IP address.



Bottom Panel

Located beneath the DMS-OUT is a Reset button. The Reset button is recessed so a paperclip or something similar is required to press. This button allows for:

- **Rebooting the DMS-OUT**
A momentary press of the Reset button reboots the DMS-OUT, similar to unplugging it from the power supply.
- **Factory Default**
Pressing and holding the Reset button for ten (10) seconds or longer, factory resets the DMS-OUT to its factory state. The DMS-OUT requires re-programming after this has been performed.



Wiring the DMS-OUT

In order for the DMS-OUT to provide the best possible experience, it must be first wired correctly then programmed by a Total Control Certified Installer. Follow these steps to prepare the DMS-OUT for programming:

1. Power the DMS-OUT with the supplied 5V DC adapter **OR** PoE using the LAN port (see below)



2. Connect an Ethernet cable from the LAN 10/100 port to an MFS-8/MFSPOE-8
 - The 5V DC adapter is not required when using PoE



3. Connect the DMS-OUT to a 3rd party device via Analog or Digital that is to be a part of the DMS Audio Stream



Only one source can be used at a time, further audio adjustments can be made from within Accelerator.

Additional set up is required via the URC Accelerator software. Contact a Certified Total Control Installer to properly configure the DMS-OUT to a new or existing system.

Specifications

Microprocessor: Cortex-A5 600MHz

Memory: 128MB NAND, 128MB RAM

Network: One 10/100 Ethernet port (PoE)

Weight: 5.8oz

Size: 4.6" x 4.6" x 1.2"

Power: Standard PoE Injector or PoE Switch (purchased separately), DC 5V/1A

Limited Warranty Statement

1. Limited Warranty and Disclaimers

Universal Remote Control, Inc. ("URC") warrants that the URC equipment shall be free from defects in material and workmanship under normal usage for one (1) year from purchase when such is purchased from URC. **This limited warranty is valid only in the United States of America.** URC warrants that the software will substantially conform in any material respect to its functional specifications at the time of delivery. URC SHALL NOT BE LIABLE FOR OPERATIONAL, TECHNICAL OR EDITORIAL ERRORS AND/OR OMISSIONS MADE IN THE URC DOCUMENTATION. URC DOES NOT WARRANT THAT THE URC SOFTWARE IS BUG-FREE OR ERROR FREE OR THAT THERE ARE NO ERRORS/BUGS IN THE URC SOFTWARE.

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The warranty limitations and warranty disclaimers may not apply to end user in whole or in part, where such are restricted or excluded by applicable law and such shall apply to the maximum extent permitted by applicable law.

In the event of any warranty claim, URC will, at its sole option, repair the URC equipment using new or comparable rebuilt parts, or exchange the URC equipment for new or rebuilt equipment. In the event of a defect, these are the end user's exclusive remedies.

All the URC equipment returned for service, exchange or repair require an RGA number. To obtain an RGA number, you must complete a Return Request Form which you may obtain by calling (914) 835-4484 or contacting URC at returnrequest@universalremote.com. To obtain warranty service, end user must deliver the URC equipment, freight prepaid, in its original packaging or packaging

affording adequate protection to URC at 420 Columbus Avenue, Valhalla, NY 10595. It is end user's responsibility to backup any macro programming, artwork, software or other materials that may have been programmed into the unit. It is likely that such data, software, or other materials will be lost during service and URC 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 the URC equipment support and other important information, please visit URC's website available at www.universalremote.com or call the Customer Service Center at (914) 835-4484.

This limited warranty only covers the URC equipment 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 URC equipment. This limited warranty does not cover the URC equipment 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 URC equipment. This limited warranty specifically excludes the URC equipment sold by unauthorized resellers.

With the exception of URC's IR-only, broad-based consumer remotes, none of Page 36 URC's PC programmable remotes or any of our Total Control® whole-house equipment are authorized for online internet sales. Buying URC's PC programmable remotes or any of our Total Control® wholehouse equipment online means buying equipment that does not have a URC's limited warranty. Such equipment is not eligible for URC tech support or software support, either.

2. URC's Limitations of Liability

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IN NO EVENT SHALL URC BE LIABLE FOR ANY EVENTS BEYOND ITS CONTROL, INCLUDING ANY INSTANCE OF FORCE MAJEURE. IN NO EVENT SHALL URC BE LIABLE FOR THE ACTS OR OMISSIONS OF END USER OR ANY THIRD PARTY.

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URC SHALL NOT BE HELD RESPONSIBLE FOR THE STATEMENTS MADE BY OTHERS.

SOME STATES OR JURISDICTIONS DO NOT ALLOW THE EXCLUSION OR LIMITATION OF INCIDENTAL OR CONSEQUENTIAL DAMAGES, OR ALLOW LIMITATIONS ON HOW LONG AN IMPLIED WARRANTY LASTS, SO THE ABOVE LIMITATIONS OR EXCLUSIONS MAY NOT APPLY TO END USER. THIS LIMITED WARRANTY GIVES END USER SPECIFIC LEGAL RIGHTS AND END USER MAY HAVE OTHER RIGHTS WHICH VARY FROM STATE TO STATE OR JURISDICTION TO JURISDICTION.

End User Agreement

The terms and conditions of the End User Agreement available at www.universalremote.com/eua.php 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.

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.

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 :EN 55032
 - Immunity :EN 55024, EN55020
 - Power :EN-61000-3-2, 3
- Declaration of Conformity
"Hereby, Universal Remote Control Inc. declares that this DMS-OUT is in compliance with the Essential requirements:



Certification	CE
Type No.(Model No.)	DMS-OUT
Batch/Serial No.	-
Power Rating	48.0V $\overline{\text{---}}$, 0.32A, DC 5V 1A

Declaration of Conformity

Company Name : Universal Remote Control Inc.
Company Address : 500 Mamaroneck Avenue, Harrison, NY 10528, U.S.A
Contact Information : www.universalremote.com
Phone: (914)835-4484 Fax: (914)835-4532
Brand Name : UNIVERSAL remote control
Product Name : Stream Injector Output Device
Model Name : DMS-OUT

This product herewith complies with the requirements of EMC Directive (2014/30/EU) issued by the Commission of the European Community

Compliance with these directives implies conformity to the following European Community

EMC Directive

EN 55032

EN 55020

EN 55024

EN 61000-3-2

EN 61000-3-3

List of test reports and/or certificate verified compliance with the standards above

EMC Directive

Date of issue

:

December 01, 2016

Report No. GETEC-E2-16-110

Testing Laboratory : Gumi University EMC Center

Name and signature of authorized person :

James Novak

Director of Product

Universal Remote Control Inc.