

# Linear®

*Building On Innovation.*

## 2X4 Switcher/Splitter For **HDMI™**

Model # HDMI-SW-2X4M

USER MANUAL



**1080P**  
PROGRESSIVE

**HDMI**  
HIGH DEFINITION MULTIMEDIA INTERFACE

**GDTV**

**HD DVD**

**Blu-ray Disc™**

[www.linearcorp.com](http://www.linearcorp.com)





## ASKING FOR ASSISTANCE

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**Notice**

Linear LLC reserves the right to make changes in the hardware, packaging and any accompanying documentation without prior written notice.

## TABLE OF CONTENTS

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1. Introduction / Operation Notes
2. Features
3. Panel Descriptions
4. Connecting and Operating the 2X4 Switcher/Splitter For HDMI
5. RMT-2 Installation
6. IR Code Configuration
7. Wiring Diagram
8. Specifications
9. Warranty

## INTRODUCTION

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The Linear 2x4 Switcher/Splitter for HDMI is equipped with two HDMI inputs and four HDMI outputs. Two inputs accommodate the simultaneous connection of up to two high definition video sources, such as satellite systems and HD DVD players. Four outputs send the high definition audio/video signals to up to four high definition displays. Switching is done via the IR remote that is provided with the unit.

### How It Works

You simply connect all your sources to the switcher's HDMI inputs. Then connect up to four displays to the switcher's HDMI outputs. Once the sources, the Switcher and the display(s) are powered and connected, you simply select which source you want to view using the IR remote.

## OPERATION NOTES

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### READ THESE NOTES BEFORE INSTALLING OR OPERATING THE 2X4 SWITCHER/SPLITTER FOR HDMI

- **Display information (EDID) is sent from the display connected to HDMI output port 1 to both of the sources connected to the 2X4 Switcher/Splitter for HDMI. If there is no display connected to HDMI output port 1, the remaining HDMI output ports will be scanned in succession for an EDID to use. (See note on page 4 for additional information)**
- The 2X4 Switcher/Splitter for HDMI can only mirror one input video signal at a time to the four display outputs. The user can choose which of the two HDMI inputs will be displayed on the four HDMI outputs
- HDMI/HDCP compliant
- Compatible with all HDMI and DVI\* displays

**NOTE:** When used with a HDMI to DVI adapter.

# FEATURES

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## Features

- Switch easily between any two HDMI sources
- Outputs are mirrored to four HDMI displays simultaneously
- Extends the range of the HDMI compliant device by equalizing and reclocking the HDMI signal
- Supports resolutions up to 1080p, 2K and 1920 x 1200
- HDMI/HDCP compliant

## Includes:

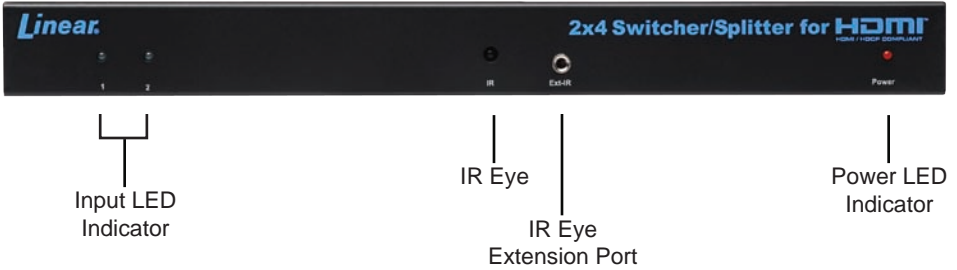
- (1) 2X4 Switcher/Splitter for HDMI
- (2) 6 ft HDMI cables (M-M)
- (1) 5V DC Power Supply
- (1) RMT2-IR remote
- (1) User's Manual



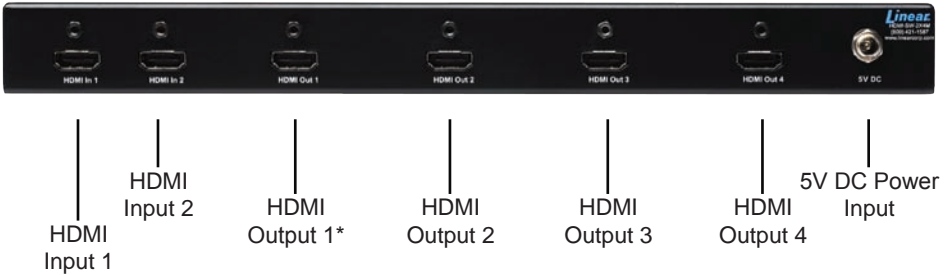
**NOTE:** \*When used with a HDMI to DVI Adapter

# PANEL DESCRIPTIONS

## Front Panel



## Back Panel



\*See note on page 4

## CONNECTING THE 2X4 SWITCHER/SPLITTER FOR HDMI

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### How to Connect the 2X4 Switcher/Splitter For HDMI

1. Connect the supplied cable from the HDTV HDMI source into the HDMI input port 1 of the 2X4 Switcher/Splitter for HDMI.
2. Connect the second HDTV HDMI source to HDMI input port 2 on the 2X4 Switcher/Splitter for HDMI using a user supplied HDMI cable.
3. Connect the display(s) to the HDMI output port(s)\* of the 2X4 Switcher/Splitter for HDMI using user supplied cable(s).
4. Plug the 5V DC power supply into the 2X4 Switcher/Splitter for HDMI.

**NOTE:** \*Display information (EDID) is sent from the display connected to HDMI output port 1 to both of the sources connected to the 2X4 Switcher/Splitter for HDMI. If there is no display connected to HDMI output port 1, the remaining HDMI output ports will be scanned in succession for an EDID to use. The source will output resolutions and timings according to the EDID that is being fed by the 2X4 Switcher/Splitter for HDMI. Therefore, all of the connected displays must be capable of accepting the timings and resolution output by the source. It is recommended that the display with the lowest native resolution be connected to HDMI output port 1. This is to ensure that a compatible video signal will be able to be displayed on all connected monitors.

## OPERATING THE 2X4 SWITCHER/SPLITTER FOR HDMI

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Switching between the inputs on the 2X4 Switcher/Splitter for HDMI is done using the supplied RMT2-IR remote.

### IR Remote Control

Pressing button one on the remote will select the HDMI source that is connected to HDMI input port one. Pressing two on the remote will select the HDMI source that is connected to HDMI input port two.



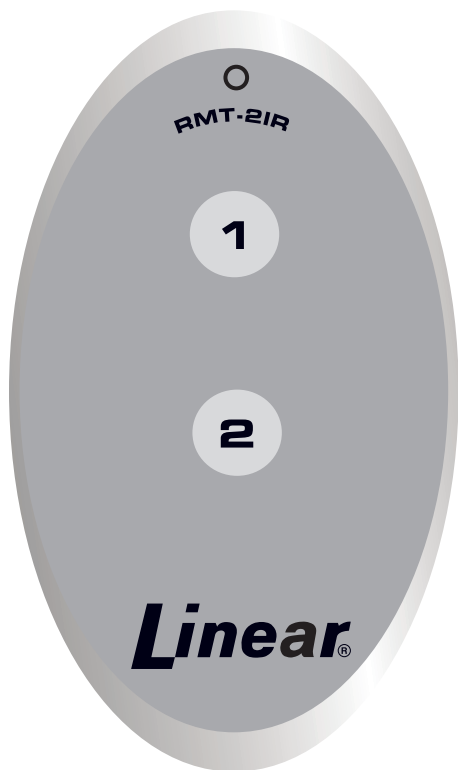
## RMT2-IR INSTALLATION

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1. Remove battery cover from the back of the RMT2-IR remote.
2. Verify that dip switches 1 & 2 are in the down (OFF) position. (See page 6)
3. Insert the battery, hold the battery so that you can see the positive side facing up. The side that is not marked must be facing down.
4. Test the RMT2-IR remote by pressing ONLY one button at a time. The indicator light on the remote will flash once each time you press a button.

**WARNING:** Do not press multiple buttons simultaneously and do NOT press buttons rapidly. These actions will cause the remote to reset and steps 1-4 will have to be repeated.

Note: The RMT2-IR ships with two batteries. One battery is required for operation, the second battery is complimentary.



The optional IR extender allows you to relocate your HDMI Switcher and still retain IR control. Linear part# IR-EXTENDER

# IR CODE CONFIGURATION

## How to Resolve IR Code Conflicts

In the event that IR commands from other remote controls conflict with the supplied RMT-21R remote control, changing the remote channel will alleviate this issue. The RMT-21R remote control and the 2X4 Switcher/Splitter for HDMI have DIP SWITCHES for configuring the remote channel that both units use to communicate. These settings must match each other for proper operation. The 2 DIP SWITCH bank on the RMT-21R is located underneath the battery cover. The 8 DIP SWITCH bank for the 2X4 Switcher/Splitter for HDMI is located inside of the unit. \*DIP SWITCH 1 and 2 on the RMT-21R correspond to DIP SWITCH 3 and 4 on the 2X4 Switcher/Splitter for HDMI.

**NOTE:** \*DIP SWITCHES 1, 2, and 5 through 8 are not used on the 2X4 Switcher/Splitter for HDMI.

Because the procedure for changing channels requires the main unit to be disassembled, this procedure should only be done if there are IR conflicts present in your setup.

Disconnect power from unit before starting. Remove all cabling from unit.

To open the 2X4 Switcher/Splitter for HDMI Unit, remove all screws from the sides and underside of the unit. Remove the hex nuts above each HDMI connector. Slide the unit apart carefully to expose the internal PCB and the 8 DIP SWITCH bank.

Carefully slide the PCB back into the unit. Being careful not to over tighten the hex nuts, screw them back in above each HDMI connector and on the RS-232 serial connector. Screw all of the screws from the sides and underside of the unit back into the unit, again being careful not to over tighten the screws. Plug all cabling back into its proper location on the unit. Reconnect power to the unit and test for IR conflicts.

### Remote



Remote Channel 1:  
Default



Remote Channel 2:



Remote Channel 3:



Remote Channel 4:



### 2X4 Switcher/Splitter For HDMI

Remote Channel 1:  
Default



Remote Channel 2:



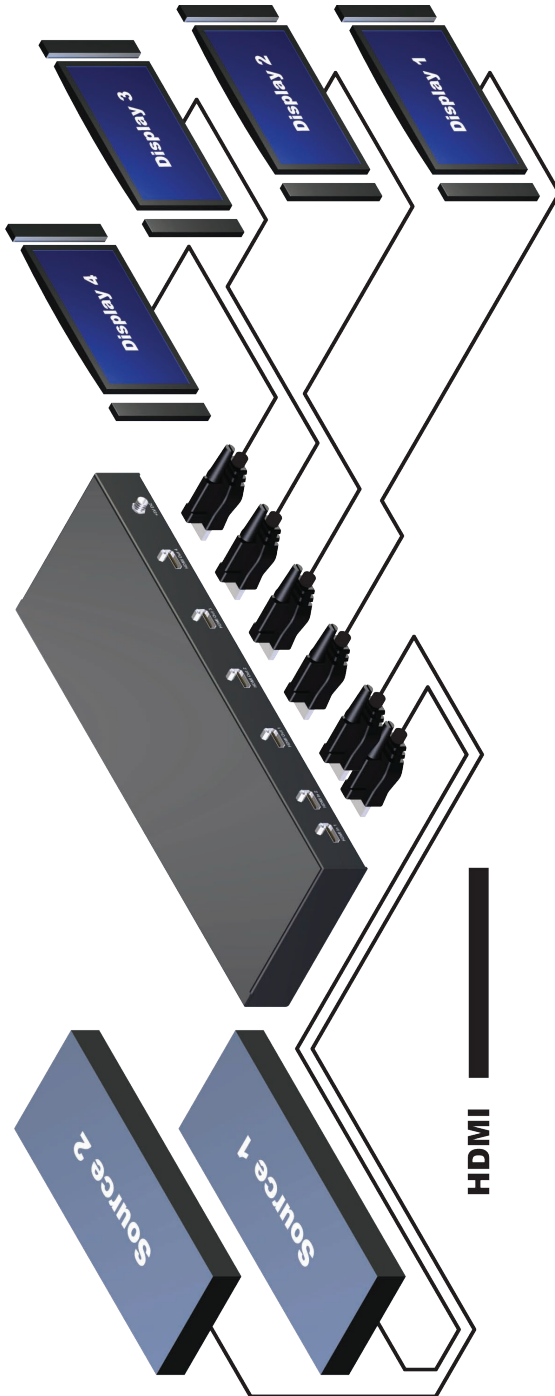
Remote Channel 3:



Remote Channel 4:



# WIRING DIAGRAM



Maximum HDMI cable length is 15 ft at 1080P resolution without the use of an HDMI-SB or HDMI-CAT5-EXT

## SPECIFICATIONS

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VideoAmplifierBandwidth:.....	165MHz
InputVideoSignal:.....	1.2Voltp-p
InputDDCSignal:.....	5Voltp-p(TTL)
SingleLinkRange:.....	1080p/1920x1200
HDMIConnector:.....	TypeA19pinfemale
PowerSupply:.....	5VDC
PowerConsumption:.....	10Watts(max)
Dimensions:.....	12"Wx1.25"Hx4.25"D
ShippingWeight:.....	4lbs.

# WARRANTY

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**Note: These products are designed to be installed and serviced by trained professional installation companies.**

Linear LLC warrants this product to be free from defects in material and workmanship. For the term of the warranty, see the list of products below. The Warranty Expiration Date is reflected by a date code that is affixed to all of Linear's products. This warranty extends only to wholesale customers who buy direct from Linear or through Linear's normal distribution channels. Linear does not warrant this product to consumers. Consumers should inquire from their selling dealer as to the nature of the dealer's warranty. There are no obligations or liabilities on the part of Linear LLC for consequential damages arising out of or in connection with use or performance of this product or other indirect damages with respect to loss of property, revenue, or profit, or cost of removal, installation or reinstallation. All implied warranties, including implied warranties for merchantability and implied warranties for fitness, are valid only until warranty expiration date as labeled on the product. This Linear LLC Warranty is in lieu of all other warranties express or implied. Some states and countries do not allow limitations or how long an implied warranty lasts or the exclusion or limitation or incidental or consequential damages, so the above exclusions may not apply. The Linear LLC warranty gives specific legal rights in addition to other rights, which may exist and vary from state to state and country to country.

All products returned for warranty service require a Return Product Authorization Number (RPA#). Contact Linear Technical Services at 1-800-421-1587 for an RPA# and other important details.

Consumers: If you have trouble locating your installing company, please contact Linear LLC at 1-800-421-1587 and we will assist you with locating a service and Installation Company.

The following warranty period applies to this set of Linear branded products.

1. Linear High Definition Video products — Two (2) years. There is no warranty offered on the batteries supplied with the IR remote Control.

**The warranty is limited to repair or replacement of products returned, freight prepaid, to Linear LLC. There is NO PROVISION FOR LABOR COST OR OTHER REIMBURSEMENTS OF ANY KIND.**

1. Failures due to product abuse, negligence, improper installation, improper use, and electrical surge including damage from lightning, water damage or other damage due to natural disasters are not covered by the warranty.
2. The warranty shall also be voided by any tampering with the date code, labels or other markings on the product.
3. Products that are damaged in transit to Linear LLC due to improper packaging or by the carrier (shipping company) will not be covered under the warranty. If the product was damaged or lost by the carrier, it is the sender's responsibility to create a claim against the carrier.
4. The user is responsible for all labor costs associated with removing, reinstalling and returning the product to Linear LLC.
5. Linear LLC, at its option, will repair or replace the defective product.
6. Replacements will be made from B-Stock. If an exact replacement is not available Linear LLC, at its option will select the nearest equivalent product. The user is responsible for freight charges to Linear LLC.
7. Linear LLC will return warranted repaired or replacements by UPS Ground or an equivalent service. A customer may pay the additional costs for second day or next-day service.





# HDMI-SW-2X4M



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Rev A



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