



USER MANUAL



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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.

- 1. Introduction
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You can now enjoy the benefits of HDMI1.3 while connecting multiple sources to one display. Linear's HDMI 3x1 switcher routes three high definition video signals with multichannel digital audio to one display with resolutions up to 1080p. Three inputs accommodate the simultaneous connection of up to three HDMI 1.3 high definition video sources, such as satellite systems, game systems, and high definition video players. The output sends the high definition audio/video signals to a high definition display. Switching is done via the IR remote that is provided with the unit.

#### How It Works

Simply connect all your sources to the switcher's HDMI inputs. Then, connect your display to the switcher's HDMI output. Once the sources, the switcher, and the display are powered and connected, you simply select which source you want to view using the IR remote or the select button on the front panel.

# **OPERATION NOTES**

# READ THESE NOTES BEFORE INSTALLING OR OPERATING THE 3X1 SWITCHER FOR HDMI 1.3

- When powering the sources, the display needs to point to the source input.
- The 3X1 Switcher For HDMI 1.3 works with all DVI\* and HDMI displays.
- The 3X1 Switcher For HDMI 1.3 is HDCP compliant.
- The 3X1 Switcher For HDMI 1.3 is HDMI 1.3a compliant.

**NOTE** \*Using a DVI to HDMI adapter

# Features

- 1. Switch easily between any three HDMI sources
- 2. Discrete push button for local switching
- 3. Extends the range of HDMI compliant devices by
- 4. equalizing the HDMI signal
- 5. Maintains high resolution video beautifully, with sharp
- 6. HDTV resolutions up to 1080p, 2k, and computer
- 7. resolutions up to 1920 x 1200.
- 8. HDMI 1.3/HDCP compliant

# Includes

- (1) 3X1 Switcher For HDMI 1.3
- (3) 6ft HDMI cables (M-M)
- (1) 5V DC Power Supply
- (1) RMT-3IR Remote Control
- (1) User's Manual



#### FRONT







# DIP SWITCH LOCATION



# CONNECTING AND OPERATING THE 3X1 SWITCHER FOR HDMI 1.3

#### How to Connect the 3X1 Switcher For HDMI to your devices

- Connect the supplied cables from the HDMI sources into the 3X1 Switcher for HDMI's input ports.
- Connect the cable from your display (monitor or projector) into the HDMI output port of the 3X1 Switcher for HDMI.
- 3. Plug the 5VDC power supply into the 3X1 Switcher for HDMI.

# OPERATING THE 3X1 SWITCHER FOR HDMI 1.3

Switching between the inputs on the 3X1 Switcher HDMI 1.3 is done using the either the supplied RMT3-IR remote or the selector button located on the front panel.

#### 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. Pressing three on the remote will select the HDMI source that is connected to HDMI input three.

#### Selector Button

Pressing the selector button located on the front of the 3X1 Switcher for HDMI 1.3 will cycle through the three inputs.

- 1. Remove battery cover from the back of the RMT-3IR 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 RMT-3IR 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 RMT-3IR ships with two batteries. Only one battery is required for operation, the other battery is complimentary.



# How to Resolve IR Code Conflicts

In the event that IR commands from other remote controls conflict with the supplied RMT-3IR remote control, changing the remote channel will alleviate this issue. The RMT-3IR remote control and the 3X1 Switcher for HDMI 1.3 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-3IR is located underneath the battery cover. The 4 DIP SWITCH bank for the 3X1 Switcher for HDMI 1.3 is located on the underside of the unit beneath a black piece of metallic tape. DIP SWITCH 1 and 2 on the RMT-3IR correspond to \*DIP SWITCH 1 and 2 on the 3X1 Switcher for HDMI 1.3.

NOTE: \*DIP SWITCHES 3 and 4 are not used on the 3X1 Switcher for HDMI 1.3.



# Remote

Remote Channel 1: Default
Remote Channel 2: 1 2
Remote Channel 3: 1 2
Remote Channel 4: 1 2 1

Remote Channel 1: Default

Remote Channel 3:



Remote Channel 2:

3X1 Switcher For HDMI 1.3

Remote Channel 4:





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

# SPECIFICATIONS

Single Link Bandwidth:	225 MHz
Input Video Signal:	
Input DDC Signal:	
Single Link Range:	1080p/1920 x 1200
HDMI Connector:	Type A 19 pin female
Remote Control Port:	Mini-Stereo Jack
Power Supply:	
Power Consumption:	
Dimensions:	9.25"W x 1"H x 2.75"D
Shipping Weight:	

# 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.
- The warranty shall also be voided by any tampering with the date code, labels or other markings on the product.
- 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.
- 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-3X1



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Rev A