Cable Matters

4x2 HDMI Matrix
with 4K Resolution Support

Model 103077

♦ Distributes any combination of four
HDMI sources to two displays

User Manual

CE FC ✔RoHS

www.cablematters.com

Table of Contents

1. Introduction

1.1 Introduction

Thank you for your purchase from Cable Matters® Inc., the 'Reliable Connectivity' company. This User Manual provides an overview of the features and installation of your new

4x2 Matrix Switch with 4K Resolution Support

Please read these instructions carefully before connecting, operating, or configuring this product. Please keep this manual for future reference.

Contact **support@cablematters.com** for questions or product support.

1.2 Copyright and Trademarks

Specifications are subject to change without notice. Cable Matters is a registered trademark or trademark of Cable Matters Inc. All rights reserved. All other trademarks are the property of their respective owners.

1.3 FCC Compliance 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.

2. PRODUCT OVERVIEW

2.1 Package Contents

Please check that the following items are contained in the package:

　　　1 x 4x2 Matrix Switch
　　　1 x AC Power Adapter
　　　1 x IR Remote with battery
　　　2 x 4K rated HDMI Cables
　　　1 x User Manual (available as a PDF from Cable Matters)

NOTE: Two HMDI cables are included. Additional cables are sold separately.

2.2 Product Description

The Cable Matters® 4x2 Matrix Switch is the perfect solution for connecting multiple A/V devices to displays with limited HDMI ports. Connect up to four devices to two separate displays. Control each device independently with the handheld remote.
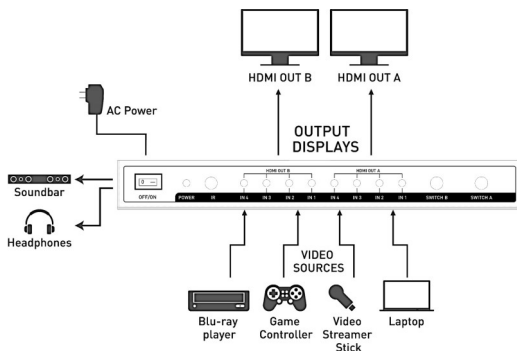
2.3 Product Features
- Connect up to 4 input sources with HDMI output
- Switch sources between 2 output displays with HDMI input
- Provides compatibility between 4K and 1080p sources and displays
- Ideal solution for displays with limited HMDI ports
- Simultaneous switching between inputs with a handheld remote
- Video resolution support up to 4096 x 2160 @ 30Hz
- Dolby Digital, DTS, Dolby TrueHD, DTS HD-Master Audio support
- Audio support for 2.1 and 5.1 surround sound
- Audio output with 3.5mm stereo and Toslink ports
- Rugged metal housing construction reduces EMI/RFI noise
- Includes 2-Pack of 4K rated HDMI cables

3. CONNECTION AND OPERATION

3.1 Installation Checklist

Please review these steps before installing the HDMI Matrix Switch

- Power-off the source and display equipment before connecting
- Matrix must be located within 3.6 feet of an electrical outlet
- Recommended max total cable distance (in/out) is 30 feet
- 4K displays require 4K rated HDMI cables in the shortest length needed
- Use high quality solid copper HDMI cables for the best performance
- Certain cable set-top boxes may block replication of the signal
- Test the Matrix and cabling before installing in a permanent location
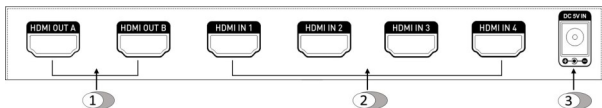
3.2 Front Panel Connections
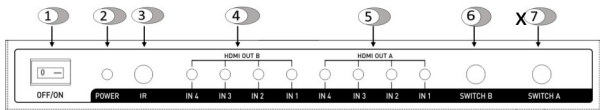
1. OFF/ON: Power saving switch can turn off unit when not in use
2. POWER LED: Blue LED lights when Matrix is turned on
3. IR Reader: Remote must have line of sight to this reader
4. HDMI OUT B: Green LED lights to show selected source on Display B
5. HDMI OUT A: Green LED lights to show selected source on Display A
6. SWITCH B: Manual button switches source to Display B
7. SWITCH A: Manual button switches source to Display A

IMPORTANT NOTES:
- Default audio / video mode is 4K with 2.1 audio
- Connect a source to a display with 1080p or lower resolution by pressing Switch A for 3 seconds
- Press Switch B for 3 seconds to select 4K with 5.1 audio mode

3.3 Rear Panel Connections

1)   HDMI OUT: HDMI Connection to Display A or Display B

2)   HDMI IN: HDMI Connection to inputs 1, 2, 3, 4

3)   DC 5V IN: Connect the AC power adapter to this port

3.4 Audio Panel Connections
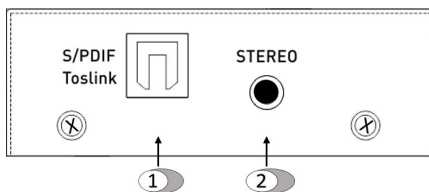
1)   Toslink optical audio output port

2)   3.5mm stereo audio output port

NOTE: Audio output from the 3.5mm stereo aux jack and Toslink ports
mirrors the output to Display B only

3.5 IR Remote Functions

OUT A: Switch between IN1 to IN4 sources to Display A

OUT B: Switch between IN1 to IN4 sources to Display B

NOTES:
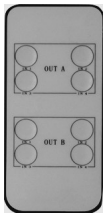Remove the battery tab cover before using
Remote must have line of sight with the IR reader window

3.6 Connection Instructions

1. Connect the AC power adapter to the unit and an electrical outlet
2. Power off all the source equipment and output displays
3. Connect the HDMI cables to the input sources and output displays
4. Power on the video sources and output displays
5. Depress the ON switch on the Matrix to establish the connections
   Note: Press the B switch for 3 seconds to select 4K with 5.1 audio
   Note: Press the A switch for 3 seconds to connect a 4K source to a
             display with 1080 or lower resolution
6. Select the appropriate HDMI INPUT on the menu of each display
7. Select the appropriate AUDIO INPUT on the menu of each display
8. Switch inputs to the displays with the Switch A or Switch B buttons
   on the Matrix or with the handheld remote
9. Press Switch A or Switch B for 3 seconds to change EDID settings

EDID Modes	Setting
4K Video/2.1 Audio	Default
1080p Video/2.1 Audio	Press Switch A for 3 seconds
4K Video/5.1 Audio	Press Switch B for 3 seconds

3.7 Video and Audio Settings with a Mac Computer

VIDEO SETTINGS

1) Open *Apple* Menu
2) Select **System Preferences**
3) Click on *Displays*
4) Click *Arrangement* tab
5) Choose **Duplicate** or *Extend*
6) Select *Display* tab to adjust the resolution
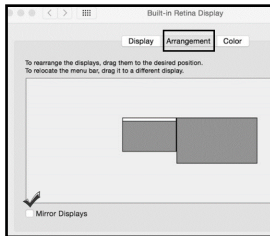
NOTE: Refer to the user manual of your monitor, TV, or projector to change the resolution and sound input settings and to verify that audio is supported.
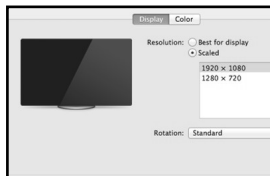
SOUND SETTINGS

1) Open *Apple* Menu
2) Select **System Preferences**
3) Click on *Sound*
4) Select Output tab
5) Adjust volume at connected display

3.8 Video and Audio Settings with a Windows Computer

VIDEO SETTINGS

1) Right-click on desktop and select **Screen Resolution**
2) Select **Duplicate** or *Extend*
3) Click on *Advanced settings* to change the refresh rate

NOTE: Refer to the user manual of your monitor, TV, or projector to change the resolution and sound input settings and to verify that audio is supported.
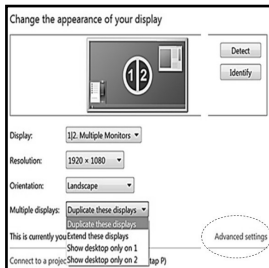
SOUND SETTINGS

1) Select *Control Panel > Sound*
2) Select *Playback* tab
3) Adjust volume at the connected display

3.9 Troubleshooting Notes

- Verify that the Matrix and all connected equipment have power. The red LED indicator should be lit.

- Verify that all cables are connected to the correct input and output ports.

- Verify that the correct video input source and output display is selected. Check the green LED indicators on the front panel of the Matrix.

- No signal is displayed if the source is 4K and the display is 1080p or lower. Press Switch A for 3 seconds on the Matrix to configure this connection.

- All connected equipment must support HDCP.

- Directly connect the video source to a display to test for compatibility.

- Check the audio output settings from the source device or computer.

- Test each HDMI cable by connecting it with other equipment.

- High resolution 4K displays may require a heavy gauge AWG 22-24 or RedMere HDMI cable for distances over 10 feet.

- Place the Matrix Switch away from fluorescent lighting or equipment that generates electrical noise.

- A 'Not Supported' error message may indicated that the connected equipment does not support HDCP (or more than 2 outputs) for content protected video.

- Check that the IR Reader on the front panel is not blocked.

- Reboot the video source and output displays after making changes.

Contact **support@cablematters.com** with any questions.

www.cablematters.com

4. TECHNICAL SPECIFICATIONS   Model 103077

Matrix Connections

HDMI Input...4 x HDMI 19 pin female

HDMI Output ....2 x HDMI 19 pin female

Audio Output..1 x 3.5mm stereo mini jack

....1 x S/PDIF (Toslink)

Power ....1 x 5V DC power input

Video Resolution Support

4K Max...4096 x 2160 @ 30Hz

....1920x1080 @ 60Hz

Supported HDMI AV formats .... 4K/2.1 Ch, 4K/5.1 Ch, 1080p/2.1 Ch

Frequency Bandwidth..3.2.Gbps

Matrix Dimensions

(L x W x H) / Weight ....7.8 x 2.7 x 0.9 Inches / 10.7 Ounces

Remote Specifications

(L x W x H) / Weight ....1.5 x 3.5 x 0.3 Inches / 0.5 Ounces

Battery..……………CR2025 lithium

Environmental

Operating Temperature ....32°F to 104°F

Storage Temperature ....-4°F to 140°F

AC Power Supply....................................US Standard 5V 3A, 3.8 Feet

Regulatory Approvals

Matrix Switch ....FCC, C E, RoHS

Warranty ....Limited One Year

User Manual...English Version (12-18-15)

NOTE: Specifications are subject to change without notice.

5. Warranty and Support

5.1 Customer Support and Contact Information
Cable Matters offers lifetime technical support as an integral part of our commitment to provide industry leading solutions.

Email us with any questions at **support@cablematters.com.**

5.2 Warranty Information
This product is backed by a limited one-year warranty. The warranty covers parts and labor costs only. Cable Matters does not warrant its products from defects or damages arising from misuse, abuse, or normal wear.

5.3 Limitation of Liability
In no event shall Cable Matters Inc. (including their officers, directors, employees or agents) be liable for any damages (whether direct or indirect, special, punitive, incidental, consequential, or otherwise), loss of profits, loss of business, or any pecuniary loss, arising out of, or related to the use of this product exceeding the actual price paid for the product (as allowed by state law.

View our compatible HDMI products at www.cablematters.com

3-Pack 4K Rated HDMI Cables
SKU 300019

RedMere 10 Foot HDMI Cable
SKU 300018-10

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