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4x4 HDMI® 1x4 MATRIX

SKU: 31001073

User's Manual

Thank you for purchasing HDMI® Matrix 4x4. For optimum performance and safety, please read these instructions carefully before connecting, operating or adjusting this product. Please keep this manual for future reference.

INTRODUCTION

This is a high performance HDMI Matrix with 4 HDMI inputs & 4 outputs. It allows any source (Blu-ray disc™ player, HD DVD player, satellite receiver, game console, etc.) to be shown on either or both of the four displays simultaneously. It supports 4K, 3D, 16-bits/channel Deep Color. With its 3Gbps bandwidth and the additional features of the latest HDMI standards you can be sure of great HDMI distribution.

FEATURES

1. Support display resolutions up to 4K@30Hz, 1080p@120Hz, & 3D-1080p@60Hz
2. 3D video support including frame packing for all 3D formats up to a 297MHz TMDS clock
3. Supports deep color up to 48-bit per pixel
4. Supports any audio data conforming to the HDMI specification, such as LPCM at up to 192kHz, compressed audio (IEC 61937), DSD, DST, DTS®, and HBR

5. Full color standard support, including sYCC601, Adobe RGB, Adobe YCC601, and xvYCC extended gamut color
6. Operates for TMDS clock frequencies up to 300MHz
7. Supports EDID control via EDID Selector

PACKAGE CONTENTS
1x HDMI Matrix
1x 5V 1A DC Power Supply adapter
1x Remote Controller
1x RS232 Serial Cable
User's Manual

WARNING
The connection of the main adapter to the HDMI Matrix switch must be done at first, afterwards you can connect the main adapter to the power outlet. Any other way of connecting of the main adapter to switch / power outlet can cause the damage of the device.

PRODUCT OVERVIEW

Front Panel
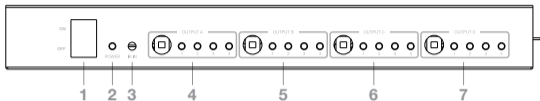
1. ON/OFF Button
2. Power - Illuminates when connected with power supply
3. IR - Receives remote control signal
4. Output A - Input sources can be selected
5. Output B - Input sources can be selected
6. Output C - Input sources can be selected
7. Output D - Input sources can be selected

Rear Panel
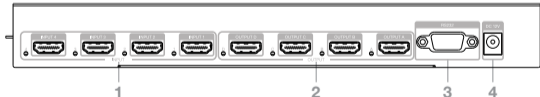
1. HDMI Input ports - Connect to HDMI devices
2. HDMI Output ports - Connect TV or monitor

3. RS232 port - Connect with supplied RS232 serial cable
4. DC 12V - Plug in included power adapter

Right Panel

1 ———| EDID Selector box o o|——— 1. EDID Selector

REMOTE CONTROL

OUTPUT A, B, C, D
· Press 1/2/3/4 buttons will quickly switch to desired input
  source.
· ◀ ▶ buttons will cycle through input sources connected
  to OUTPUT A.

EDID

Number	EDID Selector	Description
1	0000	Auto mode (default)
2	0001	1080I, Stereo Audio 2.0
3	0010	1080I, Dolby/DTS 5.1
4	0011	1080I, HD Audio 7.1
5	0100	1080P, Stereo Audio 2.0
6	0101	1080P, Dolby/DTS 5.1
7	0110	1080P, HD Audio 7.1
8	0111	3D, Stereo Audio 2.0
9	1000	3D, Dolby/DTS 5.1
10	1001	3D, HD Audio 7.1
11	1010	4K2K, Stereo Audio 2.0
12	1011	4K2K, Dolby/DTS 5.1
13	1100	4K2K, HD Audio 7.1
14	1101	1024x768 DVI
15	1110	1920x1080 DVI
16	1111	PC Software control mode

MATRIX CONTROLLER USER GUIDE

INSTALLATION

Matrix controller is a green software. Just copy MatrixController.exe to PC which is used to control the Matrix by RS232 COM port or TCP/IP to complete installation.

PREPARATION

1. Connect PC and Matrix with RS232 cable or TCP/IP
2. Turn the Matrix on
3. Double click MatirxController.exe icon

HOW TO CONTROL MATRIX
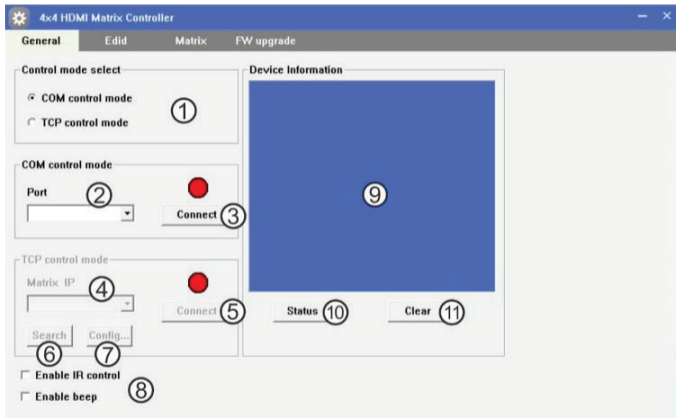
1. Select RS232 COM or TCP control mode
2. Select RS232 COM port
3. Click to connect or disconnect PC and Matrix

4. Select Matrix IP
5. Connet to Matrix IP
6. Search Matrix IP
7. Configure Matrix IP and MAC
8. Enable or disable IR /beep
9. Device information display area
10. Click to refresh device status: include device information displayed in "9" area and Input/Output Settings on "Matrix" page

TCP CONFIGURATION

After step "7", TCP configuration window will pop-up
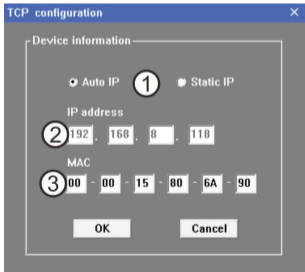
1. Select auto or static IP
2. Input Matrix IP
3. Input Matrix MAC

EDID CONTROL
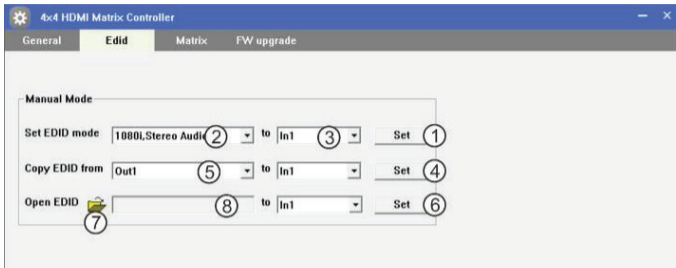
1. Set EDID mode to selected Input port or All Input ports, click "Set"
2. Select EDID
3. Select Input port
4. Copy EDID from Output port to selected Input port or All Input ports, click "Set"
5. Select Output port
6. Download EDID content to selected Input port or All Input ports, click "Download"
7. Open EDID binary file
8. Display EDID binary file path

MATRIX PAGE
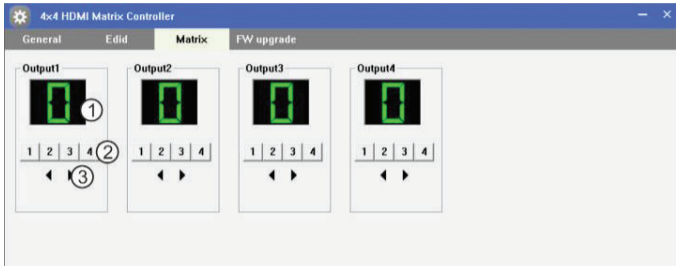
1. LED will display Input number for each Output
2. Click to select Input port for each Output port
3. Click to select previous or next Input port for each Output port

FIRMWARE UPGRADE PAGE

1. Click to open FW file
2. Display the FW file path
3. Displaying the progress of the software upgrade
4. Click to upgrade the Matrix software
5. Display the message of the software upgrade
6. Clear the message of the software upgrade

CONNECTION DIAGRAM

TV

Game Console

Media Player

DVR

DVD Player

Laptop

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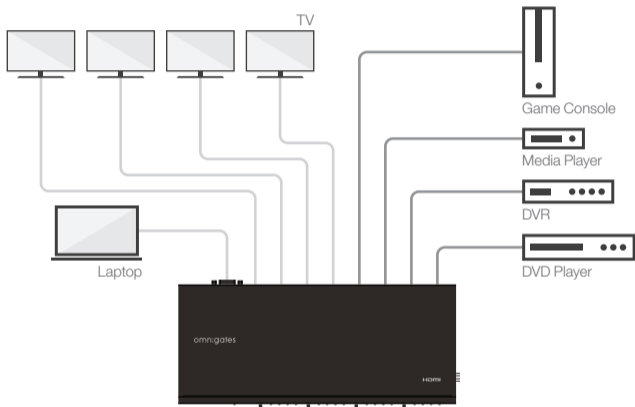
HDMI

SPECIFICATIONS

Frequency Bandwidth	: 10.2Gbps
Input	: 4 HDMI ports
Output	: 4 HDMI ports
ESD Protection	: ±8kV (Air-gap discharge) / ±4kV (Contact discharge)
Dimensions	: 4.5" x 10.6" x 1.8"
Weight	: 900g
Power Consumption	: 20W
Operation Temperature	: 32ºF ~ 104ºF (0ºC ~ 40ºC)
Storage Temperature	: -4ºF ~ 140ºF (-20ºC ~ 60ºC)
Relative Humidity	: 20 ~ 90% RH (Non-condensing)

REGULATORY COMPLIANCE