

Meicheng[®]

HDMI 4x4 Matrix

Operation Manual



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1. Introduction

CHMX-44 is a high performance HDMI Matrix with remote control. It offers you maximum convenience in HDMI signal distribution when you have multiple HDMI sources and displays to connect together. Each of the four HDMI sources can be directed to any one of the four outputs, so four displays can show 4 identical or 4 different sources at the same time. CHMX-44 provides a maximum of 16 possible connection scenarios between sources and displays. When HDMI signal progresses through CHMX-44, it is re-timed, level compensated, phase error corrected, and data jitter eliminated, so the output is a regenerated brand new HDMI signal that can run for another 25 meters and can be cascaded.

2. Features

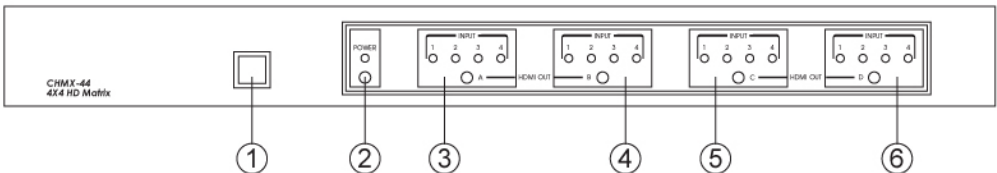
1. HDMI 1.2, HDCP 1.1 and DVI 1.0 compliant.
2. HDMI input is compensated, clock / phase adjusted, and jitter eliminated so the output is a well tuned standard HDMI signal.
3. Input source LED indicators on each output select.
4. Ideal for home theater integration, conference room and retail stores.
5. Compatible with all HDMI sources and displays.
6. Supports high resolution input/output:
PC: VGA, SVGA, XGA, SXGA and UXGA (1600X1200) &
HDTV: 480i, 576i, 480p, 576p, 1080i, and 1080p
7. RS-232 control.
8. IR remote control.

3. Package Contents

1. CHMX-44 HDMI Matrix
2. 5VDC Power Supply Adaptor
3. Operation Manual

4. Operation Controls and Functions

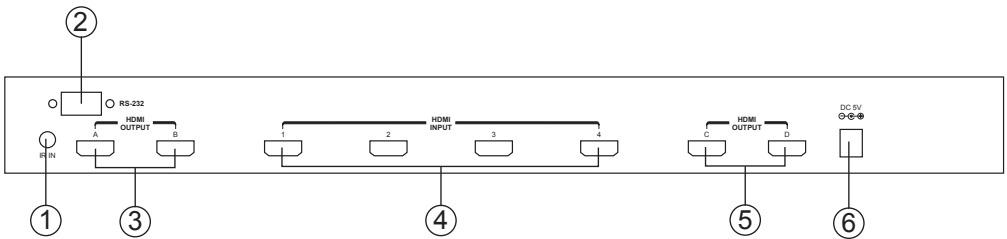
4.1 Front Panel



1. Remote control sensor.
2. Power Switch & LED Indicator:
The LED will illuminate when the power is turned on.

3. Input Select/Indicators (A):
Press the "HDMI OUT A" button repeatedly to switch to your desired source, and the LED will illuminate to indicate which input source is being selected, and routed to HDMI A display.
4. Input Select/Indicators (B):
Press the "HDMI OUT B" button repeatedly to switch to your desired source, and the LED will illuminate to indicate which input source is being selected, and routed to HDMI B display.
5. Input Select/Indicators (C):
Press the "HDMI OUT C" button repeatedly to switch to your desired source, and the LED will illuminate to indicate which input source is being selected, and routed to HDMI C display.
6. Input Select/Indicators (D):
Press the "HDMI OUT D" button repeatedly to switch to your desired source, and the LED will illuminate to indicate which input source is being selected, and routed to HDMI D display.

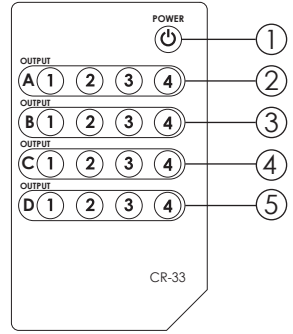
4.2 Rear Panel



1. IR IN Socket:
Plug the IR extender sensor (optional) into the socket for IR extension control.
2. RS-232 Communication Port:
Connect to the COM port of your PC for the distant control over RS-232 channel.
3. HDMI outputs:
Connect each of these output ports to the HDMI input of an HDMI display.
4. HDMI inputs:
Connect to the HDMI output of your source equipment such as DVD player or set-top-box.
5. HDMI outputs:
Connect each of these output ports to the HDMI input of an HDMI display.
6. Power:
Plug the 5VDC power supply into the unit and connect the adaptor to AC wall outlet.

4.3 Remote Control

1. Power:
Press the button to turn on/off the unit.
2. Input Select for HDMI OUT A:
Press 1, 2, 3 or 4 to select the desired input source for HDMI OUT A.
3. Input Select for HDMI OUT B:
Press 1, 2, 3 or 4 to select the desired input source for HDMI OUT B.
4. Input Select for HDMI OUT C:
Press 1, 2, 3 or 4 to select the desired input source for HDMI OUT C.
5. Input Select for HDMI OUT D:
Press 1, 2, 3 or 4 to select the desired input source for HDMI OUT D.



4.4 RS-232 Protocol

4.4.1 Pin Definition

CHMX-44			Remote Control Console	
PIN	Definition		PIN	Definition
1	NC		1	NC
2	Tx	→	2	Rx
3	Rx		3	Tx
4	NC		4	NC
5	GND	←	5	GND
6	NC		6	NC
7	NC		7	NC
8	NC		8	NC
9	NC		9	NC

*RS-232 transmission format:

Baud Rate: 9600 bps

Data bit: 8 Bits

Parity: None

Stop Bit: 1 bit

4.4.2 Commands

COMMAND	ACTION
P0	Power Off (standby)
P1	Power On *
ST	System Status *
VR	Firmware Version
A1	Output A select Input1
A2	Output A select Input2
A3	Output A select Input3
A4	Output A select Input4
B1	Output B select Input1
B2	Output B select Input2
B3	Output B select Input3
B4	Output B select Input4
C1	Output C select Input1
C2	Output C select Input2
C3	Output C select Input3
C4	Output C select Input4
D1	Output D select Input1
D2	Output D select Input2
D3	Output D select Input3
D4	Output D select Input4

5. Specifications

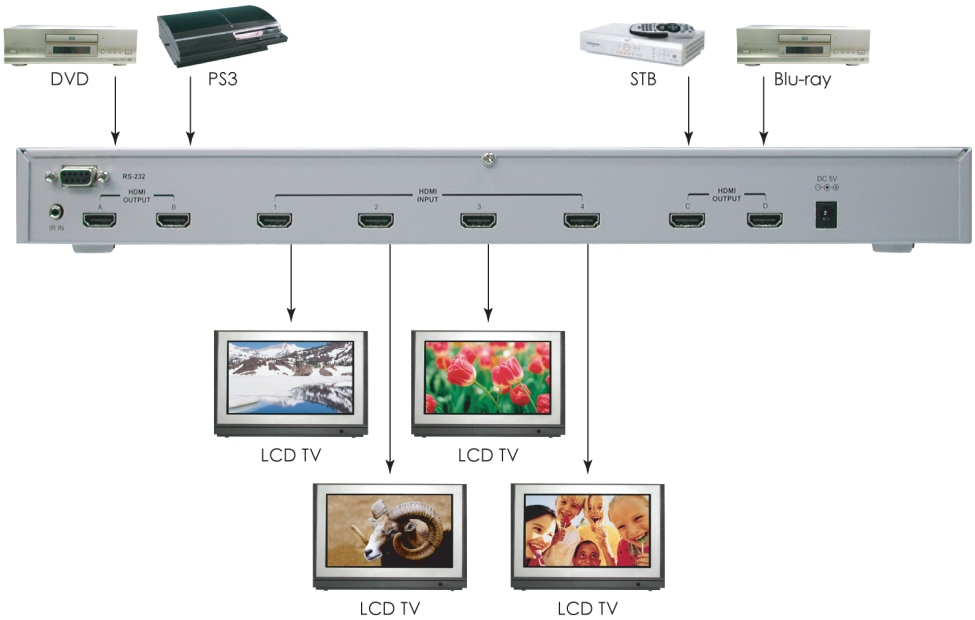
5.1 General Specification

- * Frequency bandwidth: 1.65Gbps (single link)
- * Input/Output: 4-in to 4-out HDMI female ports
- * 5V DC power supply
- * Dimensions: 438 (W) x 175 (D) x 49 (H)mm
- * Weight: 3.1Kgs

5.2 Support Resolution

INPUT	
PC	VGA, SVGA, XGA, SXGA, UXGA
TV	480i, 480p, 576i, 576p, 720p, 1080i, 1080p
OUTPUT	
PC	VGA, SVGA, XGA, SXGA, UXGA
TV	480i, 480p, 576i, 576p, 720p, 1080i, 1080p

6. Connection and Installation



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