

HDMI v1.3 4in:2out
Switcher with Audio - **ID# 826**



Operation Manual

Introduction

The popularity of HDMI products over the years is now widely seen in today's commercial and residential environments. People usually have more than one HDMI device and sources in a single place. Our HDMI V1.3 Switcher with audio provides an excellent solution when connecting all the devices and sources together into one. For convenience, it also provides you a variety of choices on where to play with remote controller. The device supports an independent R/L input, allowing user to select his desired audio output (either from R/L or HDMI input) with a HDMI input connection. Further, HDMI V1.3 Switcher supports HDMI 1.3, HDCP 1.1 and DVI 1.0, and can transfer Deep Color video and bit stream digital audio with maximum performance

Applications

- Multi-sources to display on two LCD TV at the same time
- Showroom display
- Educational presentation
- Two LCD TV can independent selected stereo or multi-channel output

System Requirements

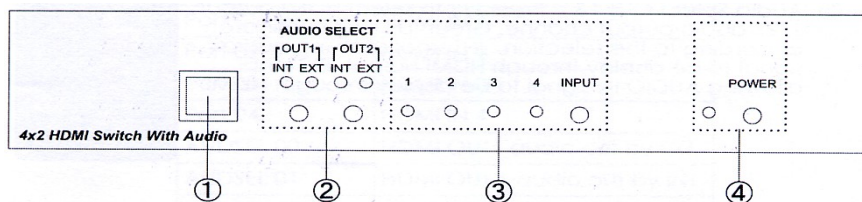
Input source equipments, output displays with HDMI cables.

Features

- HDMI 1.3, HDCP 1.1 and DVI 1.0 compliant
- Supports digital video formats in Deep Color Mode at up to 36 bits (12bits/ color) and new lossless compressed (Dolby TrueHD, Dolby Digital Plus and DTS-HD Master Audio) digital audio
- The HDMI input is compensated, clock / phase adjusted, and jitter eliminated so the output is a brand new standard HDMI signal
- Supports input source LED indicators on each output select
- Compatible with all HDMI sources and displays
- Supports a wide range of PC and HDTV resolutions from VGA to UXGA and 480i to 1080p
- Supports RS-232 control
- Supports IR remote control and IR extender
- Dolby Digital, DTS digital audio transmission (32-192 kHz Fs sample rate)
- Supports LPCM7.1 channels output from each independent HDMI ports
- HDMI cable distance test @ 1080p/8bits resolution: Input/Output source can run up to 15/10 meters. @ 1080p/12bits: Input/Output source can run up to 10/15 meters
- Extra 4 pairs of R/L audio inputs for HDMI output display can mix with input R/L audio source simultaneously

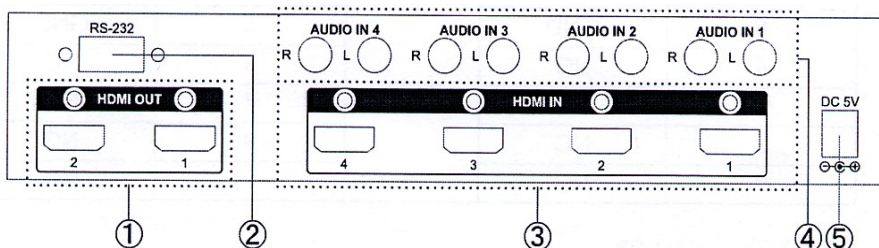
Operating Functions and Controls

Front Panel



1. Remote Control Sensor
2. Audio Select: Allow user to select the desired audio output (either from R/L or HDMI input) with a HDMI input connection.
3. HDMI input Select/Indicator: Press the "Input" button sequentially to switch to your desired input (HDMI 1 to HDMI 4), the LED will illuminate to indicate which input source is selected.
4. POWER Switch/Indicator: Press the " POWER" button to turn on/off the power, the power LED illuminate in RED color means the power is turned on, when the LED not illuminate power is turned off.

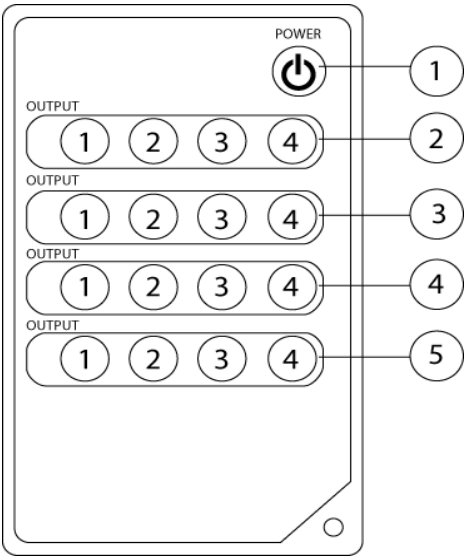
Rear Panel



1. HDMI Outputs 1 and 2: Connect each of the output ports to the HDMI display. When more than one output connected, the HDMI outputs play identical video signal simultaneously.
2. RS-232: 9-pin D-Sub connector for connecting to your PC or other control console for remote control.
3. HDMI inputs 1 to 4: Connect each of the input ports to the HDMI or DVI output of your source equipments such as DVD player or set-top-box.
4. Audio R/L inputs 1 to 4: Connect each of the input R/L input ports to the R/L output of your source equipments such as DVD player or set-top-box.
5. Power: Plug the 5V DC power supply into this unit and connect the adaptor to AC wall outlet.

Remote Controls
and Functions

- 1. Power:** Press the button to turn on/ff the unit.
 - 2. Input Select for HDMI OUT A:** Press 1 or 2 to select the desired input source for HDMI OUT A.
 - 3. Input Select for HDMI OUT B:** Press lor 2 to select the desired input source for HDMI OUT B.
 - 4. Input Select for HDMI OUT C:** Press 1 or 2 to select the desired input source for HDMI OUT C.
 - 5. Input Select for HDMI OUT D:** Press tor 2 to select the desired input source for HDMI OUT D.
- *Notes: Selection 3&4 are not functioning for this model.



RS-232 Protocols
Pin Assignment

The connection between Switcher and remote controller with RS-232 modem cable.

Switcher			Remote Controller	
PIN	Definition		PIN	Definition
1	NC	----->	1	NC
2	TxD		2	Rx
3	RxD		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

Baud Rate: 9600 bps
Data bit: 8 Bits
Parity: None
Stop Bit: 1 bit

Commands

Power 00	Power off
Power 01	Power on
Port 01	HDMI IN 1
Port 02	HDMI IN 2
Port 03	HDMI IN 3
Port 04	HDMI IN 4

AUDSEL 00	HDMI OUT1 audio out by EXT
AUDSEL 01	HDMI OUT 1 audio out by INT
AUDSEL 10	HDMI OUT 2 audio out by EXT
AUDSEL 11	HDMI OUT 2 audio out by INT

Connection and Installation

