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



## Operation Manual

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**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
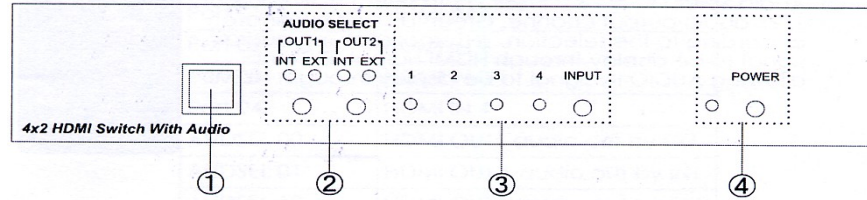
**System Requirements**

Input source equipments, output displayers 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
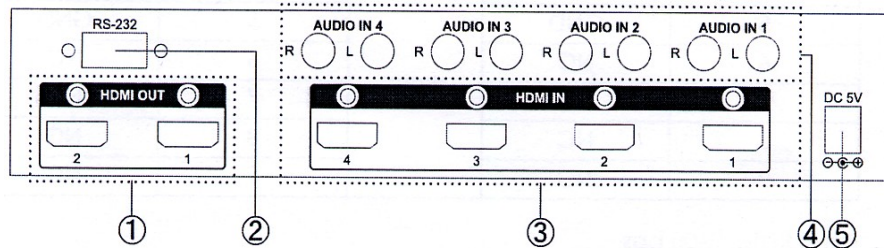
**Front Panel**



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.
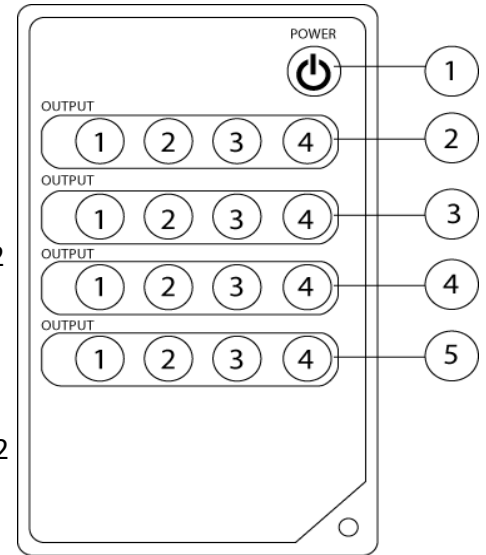
**Rear Panel**



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 |

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| 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**