



EL-42S

4-Way HDMI Switcher with 2 Identical Outputs

OPERATION MANUAL

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Version 1.1

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SAFETY PRECAUTIONS

Please read all instructions before attempting to unpack, install or operate this equipment and before connecting the power supply.

Please keep the following in mind as you unpack and install this equipment:

- Always follow basic safety precautions to reduce the risk of fire, electrical shock and injury to persons.
- To prevent fire or shock hazard, do not expose the unit to rain, moisture or install this product near water.
- Never spill liquid of any kind on or into this product.
- Never push an object of any kind into this product through any openings or empty slots in the unit, as you may damage parts inside the unit.
- Do not attach the power supply cabling to building surfaces.
- Use only the supplied power supply unit (PSU). Do not use the PSU if it is damaged.
- Do not allow anything to rest on the power cabling or allow any weight to be placed upon it or any person walk on it.
- To protect the unit from overheating, do not block any vents or openings in the unit housing that provide ventilation and allow for sufficient space for air to circulate around the unit.

REVISION HISTORY

| VERSION NO. | DATE | SUMMARY OF CHANGE |
|-------------|------------|-------------------------|
| v2.00 | 10/07/2019 | Updated format/diagrams |
| | | |

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1. INTRODUCTION

The EL-42S switcher allows the user to input four HDMI sources and switch between these sources to display HD content on 2 displays. This switcher can be controlled via the supplied remote control, RS-232, or by using the input switching button on the front of the device.

2. APPLICATIONS

- /// Home Cinema/Entertainment
- /// Lecture Room/Hall Presentation
- /// Show Room/Demo Room
- /// Public Commercial Display
- /// Information Board

3. PACKAGE CONTENTS

- /// 4-Way HDMI Switcher with 2 Identical Outputs
- /// 1×IR CR-32 Remote Control
- /// 5 V/2.6 A DC Power Adaptor
- /// Operation Manual

4. SYSTEM REQUIREMENTS

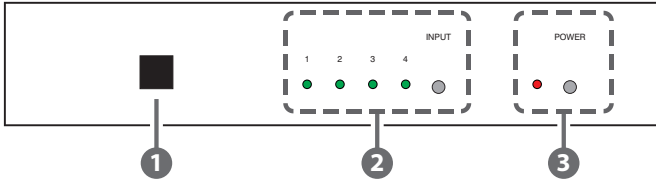
Input source equipment such as Blu-ray/DVD/PS3 player or Set-Top-Box and output HDMI TV/Display with connection cable)

5. FEATURES

- /// v1.3 HDMI, HDCP 1.1 and DVI 1.0 compliant
- /// HDMI 4 Way Switcher with 2 Identical Outputs
- /// Resolutions Supported: PC - VGA, SVGA, XGA, SXGA, UXGA & WUXGA (1920x1200). HDTV - 480i, 576i, 480p, 576p, 720p, 1080i, 1080p and 1080p24fps
- /// High Definition Audio supported - Dolby TrueHD, Dolby Digital Plus and DTS-HD Master Audio plus LPCM
- /// Auto signal enhancement feature can improve signal quality after long distance transmission
- /// RS232 & IR Remote Control
- /// Supports 'Deep Colour' (10 & 12 bit)
- /// Dual HDMI outputs for simultaneous connection to two HD Displays
- /// Supports 3D signals
- /// Supports xvYCC

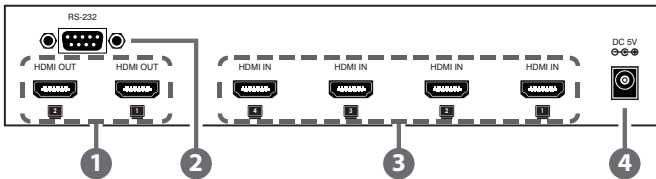
6. OPERATION CONTROLS AND FUNCTIONS

6.1 Front Panel



- ❶ **IR Window:** This IR Receiver receives the remote control signal from the included remote control
- ❷ **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
- ❸ **POWER Switch/Indicator:** Press the "POWER" button to turn on/off the power, the power LED illuminate in red colour means the power is turned on, when the LED not illuminate power is turned off.

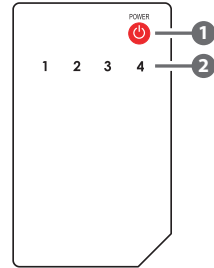
6.2 Rear Panel



- ❶ **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.
- ❷ **RS232:** 9-pin D-Sub connector for connecting to your PC or other control console for remote control.
- ❸ **HDMI Inputs 1 to 4:** Connect each of the input ports to the HDMI or DVI output of your source equipment such as DVD player or set-top-box.
- ❹ **Power:** Plug the 5V DC power supply into this unit and connect the adaptor to AC wall outlet.

6.3 Remote Control

- 1 Power:** Press the button to turn on/off the unit.
- 2 Direct input selector:** Press 1, 2, 3 or 4 to select the desired input source.



6.4 RS-232 Remote Control Protocol

| Splitter | | | Remote Controller | |
|----------|------------|---|-------------------|------------|
| Pin | Definition | | Pin | Definition |
| 1 | NC | | 1 | NC |
| 2 | TxD | | 2 | RxD |
| 3 | RxD | → | 3 | TxD |
| 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

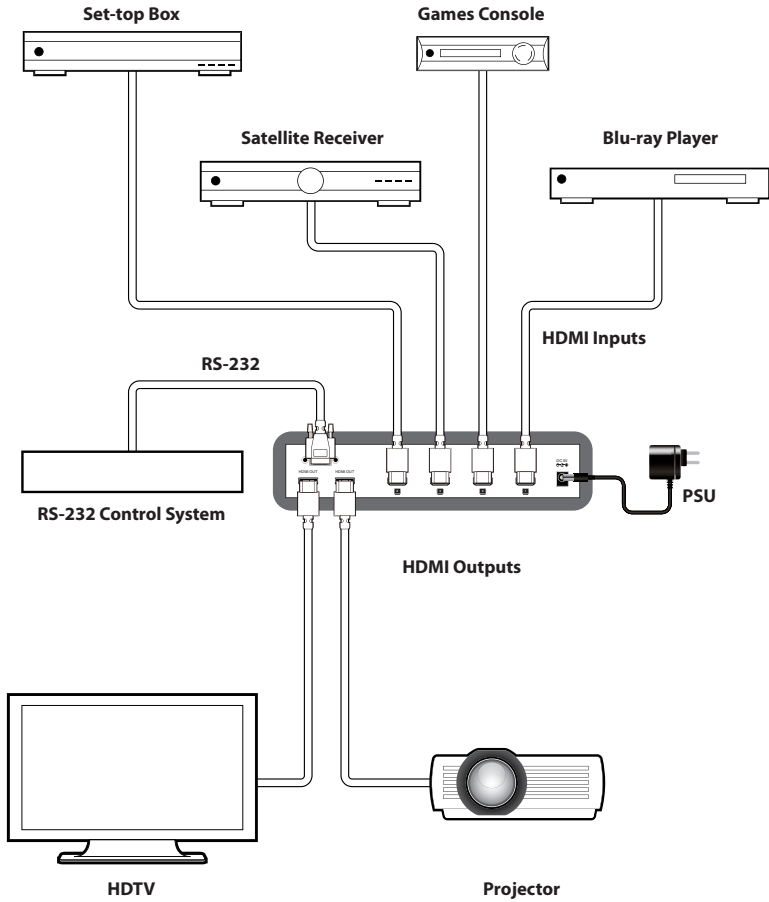
Parity: None

Stop Bit: 1 bit

6.5 RS-232 Commands

| RS-232 command | Operation |
|-----------------|------------------|
| POWER 00 | Select power OFF |
| POWER 01 | Select power ON |
| PORT 01 | Select port 1 |
| PORT 02 | Select port 2 |
| PORT 03 | Select port 3 |
| PORT 04 | Select port 4 |

7. CONNECTION DIAGRAM



8. TECHNICAL SPECIFICATIONS

| | |
|------------------------------|--|
| Frequency Bandwidth | 2.25Gbps (single link) |
| Input Port | 4x HDMI female ports |
| Output Port | 2 x HDMI female ports |
| Power Supply | 5VDC/2.6A (US/EU standards, CE/FCC/UL certified) |
| Remote Control | Discrete IR remote |
| Dimensions (mm) | 240(W) x 104(D) x 44(H) |
| Weight(g) | 800 |
| Chassis Material | Metal |
| Silkscreen Colour | Black |
| Operating Temperature | Operating from 0°C ~ 40°C |



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