EL-C41C

v1.3 HDMI 4-Way Switcher with CEC Control

OPERATION MANUAL

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1. Introduction

The EL-C41C switcher allows the user to input four HDMI sources and switch between these sources to provide a single HDMI output to a display. This switcher can be controlled via the supplied remote control or by using the input switching button on the front of the device. The EL-C41C also features a CEC command function allowing the device to Auto-Switch on source power up.

2. Features

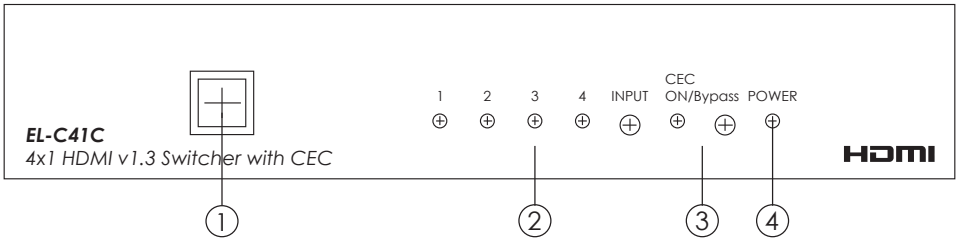
- v1.3 HDMI, HDCP 1.1 and DVI 1.0 compliant
- HDMI 4-Way Switcher with CEC Control
- Resolutions Supported: PC - VGA, SVGA, XGA, SXGA, UXGA. HDTV - 480i, 576i, 480p, 576p, 720p, 1080i, 1080p and 1080p24fps
- High Definition Audio supported - Dolby TrueHD, Dolby Digital Plus and DTS-HD Master Audio plus LPCM
- Auto signal enhancement feature can improve signal quality after long distance transmission
- RS-232 & IR Remote Control
- CEC Auto switch control function
- Supports ‘Deep Colour’ (10 & 12 bit)
- Supports xvYCC
- Supports 3D signals

3. Package Contents

- 4 by 1 HDMI v1.3 switcher
- Remote control (CR-63)
- 5V DC Power supply adaptor
- Operation manual

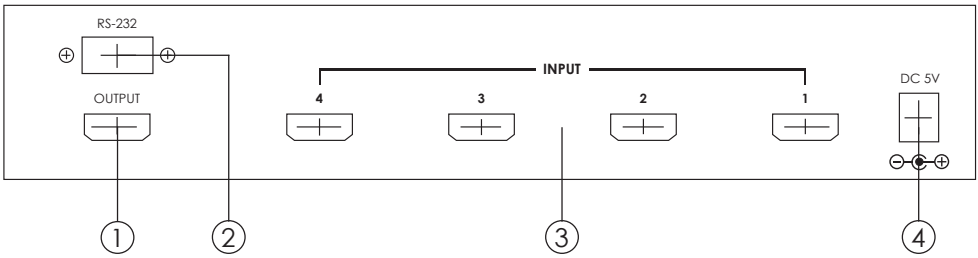
4. Operation Controls and Functions

4.1 Front Panel



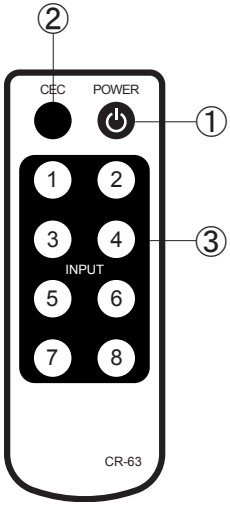
1. Remote control sensor.
2. Input select indicators: Press the “INPUT” button repeatedly to switch to your desired input source. The LED that illuminates indicate the corresponding input source is selected.
3. CEC button and Indicator: Press button to switch between CEC On and Bypass mode. When the LED is on, CEC is ON. CEC commands from the source will affect the unit and the connected display. When this is off, the unit is in Bypass mode. CEC is passed through the switch to the display, the unit does not respond itself. Note: Both input source and output display must support CEC for the switcher to properly perform CEC
4. Note: Both input source and output display must support CEC function for the switcher to properly perform CEC.
5. POWER indicator: When power is connected to the device, the device automatically turns on and the power LED will turn red. Note: To turn ON or switch the device to standby mode, please press the “POWER” button on the remote control unit.

4.2 Rear Panel



1. HDMI OUT: This is the slot where you connect the HDMI output of the switcher to the HDMI input of your display using a HDMI cable.
2. RS-232 input: For PC remote system control, connect a D-sub 9 pin cable from this RS232 slot to your computer.
3. HDMI IN 1~4: These slots connect to the HDMI/DVI output ports of your source equipments. ie, set- up-box, DVD or Blue Ray.
4. DC 5V: Connect the 5V DC power adaptor into this slot and plug the adaptor to an AC wall outlet.

4.3 Remote Control



1. Power: Press the button to turn on the unit-or set the device to standby mode.

2. CEC: Press the button to turn on /Bypass the CEC function. When the LED illuminate it means CEC is ON and both input source and output display must support CEC function in order to perform CEC rightly. Press again to switch CEC to Bypass mode and the LED will not illuminate.

3. Input selector: Press from 1~4 to select the desired input sources. No. 5~8 is not functioning for this model.

5. RS232 Pinouts

EL-C41C		Remote Control Console	
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: 19200 bps
- Data Bit: 8 bits
- Parity: None
- Stop Bit: 1 bit
- Flow Control: None

6. Command Sets

COMMAND CODE	Comment
PORT 1 ↵	PORT 1 ON
PORT 2 ↵	PORT 2 ON
PORT 3 ↵	PORT 3 ON
PORT 4 ↵	PORT 4 ON
POWER 1 ↵	POWER ON
POWER 0 ↵	POWER OFF
CEC 1 ↵	CEC ON
CEC 0 ↵	CEC OFF
ST ↵	REPORT STATE

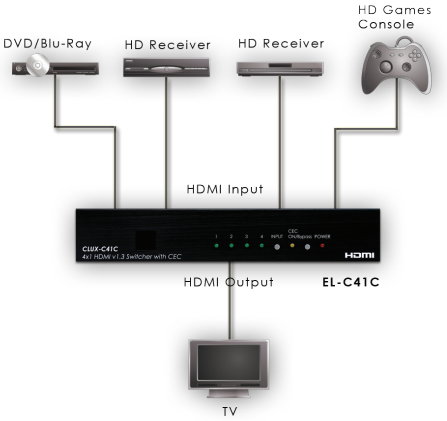
Note:

1. The command is a combination of characters and digits.
2. This combination command code has to be separated by ASCII character SPACE.
3. If the command is legal the unit will reply “OK” message .
4. If the command is illegal, the unit will prompt you with a “NG” message.
5. If you have any problems with the codes, please use the historical codes below.

Historical Codes

COMMAND CODE	Comment
I1	PORT 1 ON
I2	PORT 2 ON
I3	PORT 3 ON
I4	PORT 4 ON
P1	POWER ON
P0	POWER OFF
C1	CEC ON
C0	CEC OFF
S	REPORT STATE

7. Connection Diagram



8. Specifications

Frequency Bandwidth	2.25Gbps(single link)
Input Ports	4 x HDMI female ports (Type A connector) 1 x RS232
Output Ports	1 x HDMI female port (single link)
Color Space	YCbCr 4:2:2 16/20/24 bits
Deep Color	RGB / YCbCr 4:4:4 24/30/36 bits
ESD Protection	Human body model: ± 10kV (air-gap discharge) ± 6kV (contact discharge)
Input TMDS signal	1.2 Volts (peak-to-peak)
Input DDC signal	5 Volts (peak-to-peak, TTL)
Power Supply	5V/1A
Weight(g)	760
Dimensions(mm)	240(W) x 104(D) x 44(H)
Chassis Material	Metal
Silkscreen Color	Black
Operating Temperature	0°C~40°C / 32°F ~ 104°F
Storage Temperature	-20°C~60°C / -4°F ~ 140°F
Relative Humidity	20%~90% RH (non-condensing)
Power Consumption	3.3 W

Notes:

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