



# EL-42S

## v1.3 HDMI 4 Way Switcher with 2 Identical Outputs

### OPERATION MANUAL





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## 1. Introduction

The IR Extender and the Repeater set is perfect for controlling IR controlled source equipment over long distances. Up to five sources can be controlled using this extender set. Two sources can be controlled located locally to the repeater, whilst the remaining three sources can be controlled locally to the extender, which can be located up to 250m away via CAT5/6 cable. This system allows for the sources to be controlled by their own original remote controls, from extended distances. A 5-eye emitter accessory can be supplied for additional control of extra source equipment.

## 2. Features

- Supports five outputs (two from the repeater, three from the extender).
- Control source equipment from a distance of up to 250 metres away, via CAT5/6 cable.
- Transmits infrared signals only.
- Allows the use of existing remote controls.
- IR Receiver's frequency is at 20~60 kHz.

## 3. Package Contents

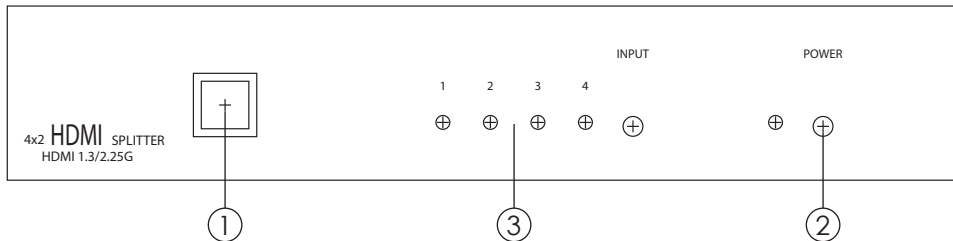
- Infrared Extender Box (CIR-03)
- Infrared Repeater Box (CIR-12)
- 1pc IR Eye Receiver cable (CIR-12)
- 5pcs IR Eye blaster cables (3pcs for CIR-03, 2pcs for CIR-12)
- 2pcs 5V DC power supply adaptors
- Operation Manual





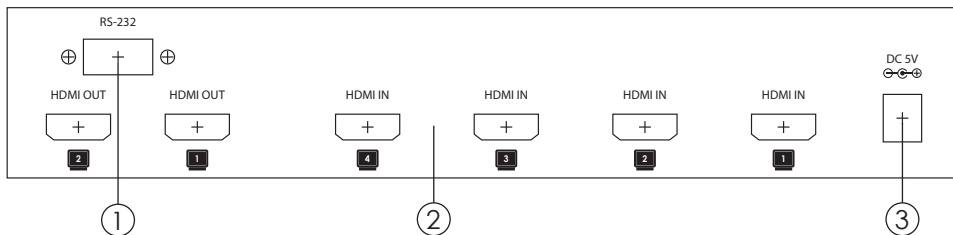
## 4. Operation Controls and Functions

### 4.1 Front Panel



1. Remote control sensor.
2. 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
3. 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.

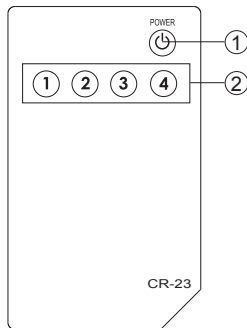
### 4.2 Rear Panel





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. RS232: 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 equipment such as DVD player or set-top-box.
4. Power: Plug the 5V DC power supply into this 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. Direct input selector: Press 1, 2, 3 or 4 to select the desired input source.





## 5. RS232 Pinouts

EL-42S		Remote Control Console	
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

- EL-42S transmission format:
- Baud Rate: 9600 bps
- Data bit: 8 Bits Parity: None
- Stop Bit: 1 bit

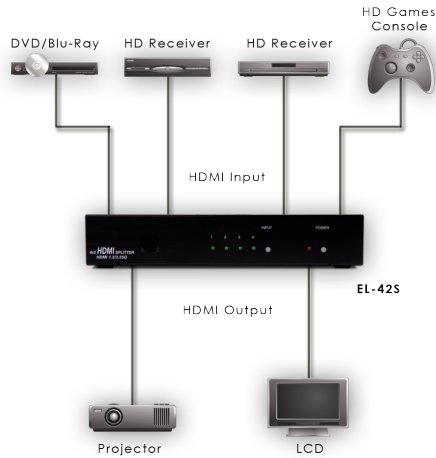
## 6. Commands Sets

COMMAND	ACTION
"1" + "1"	PORT 1 ON
"1" + "2"	PORT 2 ON
"1" + "3"	PORT 3 ON
"1" + "4"	PORT 4 ON
"S" + "1"	ENABLE SIGNAL ENHANCE
"S" + "0"	DISABLE SIGNAL ENHANCE
"P" + "1"	POWER ON
"P" + "0"	POWER OFF





## 7. Connection Diagram



## 7. Specifications

Frequency bandwidth	2.25Gbps (single link)
Input Ports	4 x HDMI female ports
HDCP Version	v1.1
Output Port	2 x HDMI female ports
Remote Control	Discrete IR remote
Power Supply	5V/2.6A DC (US/EU standards, CE/FCC/UL certified)
Dimensions (mm)	240 (W) x 104 (D) x 50(H)
Chassis Colour	Black
Chassis Material	Aluminium
Operating Temperature	Operating from 0°C ~ 48°C
Gross Weight (g)	820
Net. Weight (g)	600





# CYP III

Notes:





# CYP III



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