4K HDR Switch with IR - 4x1
B-260-SWTCH-4X1

BINARY

INSTALLATION GUIDE

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PRODUCT OVERVIEW

Thank you for purchasing a Binary product. For proper installation and optimum performance, please read the instructions in this manual.

The B-260-SWTCH-4x1 Switch features HDMI 2.0 and HDCP 2.2 compatibility and supports resolutions up to 4K @ 60Hz 4:4:4 8 bit, enabling four Ultra HD sources to be switched to one Ultra HD or non-Ultra HD display. The switch is controllable by a front panel button, IR remote**, and/or RS-232.

FEATURES

- 4-to-1 HDMI switch
- HDMI 2.0 with 4K @ 60 4:4:4 8 bit and HDCP 2.2 compliant
- Supports manual switching
- Supports various control options
- Compact size and easy to install

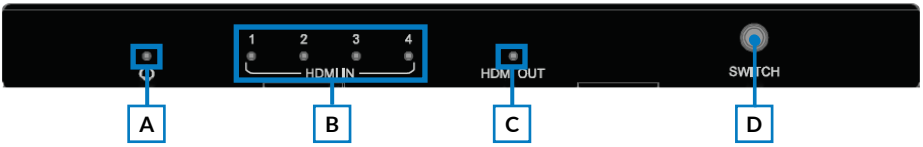
PACKAGE CONTENTS

- 1 x B-260-SWTCH-4x1 switch
- 1 x 12V DC Power adapter
- 1 x Switch IR Remote (requires IR receiver, sold separately)
- 1 x Phoenix Male connector (3.5 mm, 3 Pins)
- 2 x Mounting ears (withs crews)
- 2 x Drywall screws
- 4 x Rubber feet
- 1 x Installation guide

**IR control requires connection to an external control system via an IR extension cable or an external IR receiver, which are sold separately.

DEVICE LAYOUT

Front



A. Power LED

On: Power on

Off: Power off

B. HDMI IN 1-4 LED

On: The HDMI IN source is selected and active.

Off: The HDMI source is not selected or active.

C. HDMI OUT LED

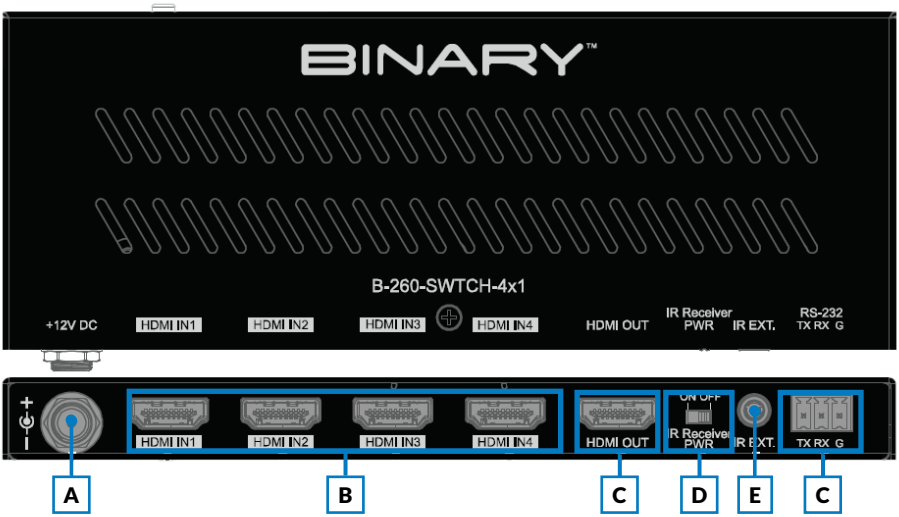
On: An HDMI display is connected to the switch.

Off: No HDMI display is not connected to the switch.

D. SWITCH button

Press to cycle through the active sources. Inactive sources will not be selectable.

Back



A. +12V DC

Connect the provided 12V DC power supply's cord and tighten it in place.

B. HDMI IN (1-4)

Connect to the output of HDMI source(s) to the input(s) you require.

C. HDMI OUT

Connect to the input of an HDMI display or other similar device.

D. IR Receiver PWR

- ON position: IR receiver port supplies 12V power.
  The unit can be controlled through an IR receiver (sold separately) in the ON position.
- OFF position: IR receiver port does not supply 12V power.
  The unit can be controlled with a standard mono cable from a control system in the OFF position.

E. IR EXT.

IR extension port. Connect an IR extension cable, control cable, or external IR receiver (not included) .

When connecting to an unpowered IR receiver or a control device, ensure that the IR receiver power switch is in the OFF position.

When connecting to a powered IR receiver, ensure that the IR Receiver Power Switch is in the ON position.

F. RS-232

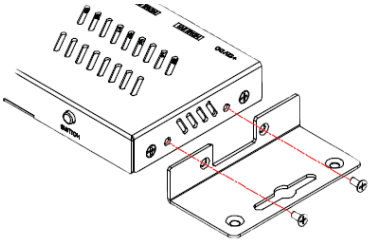
Connect to an RS-232 control device.

INSTALLATION

The B-260-SWTCH-4x1 can be placed on a solid and stable surface, installed in an equipment rack, or mounted to a wall or distribution box.

When installed on a rack shelf, wall, or distribution box, we strongly recommend that the included mounting ears be used to secure the device.

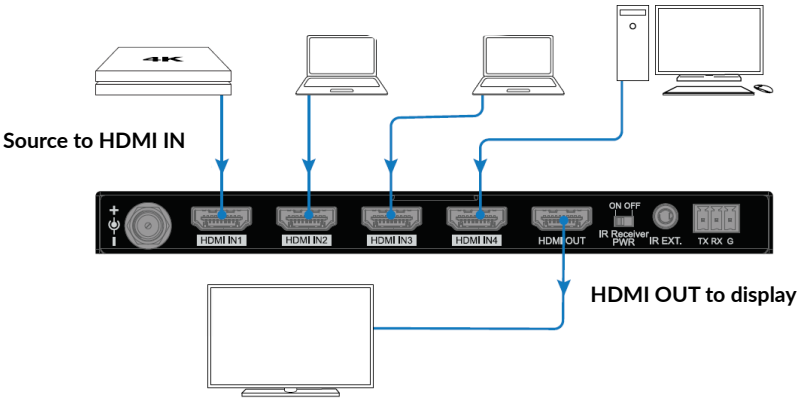
When installing on a solid surface, the use of the mounting ears is optional.



CONNECTIONS

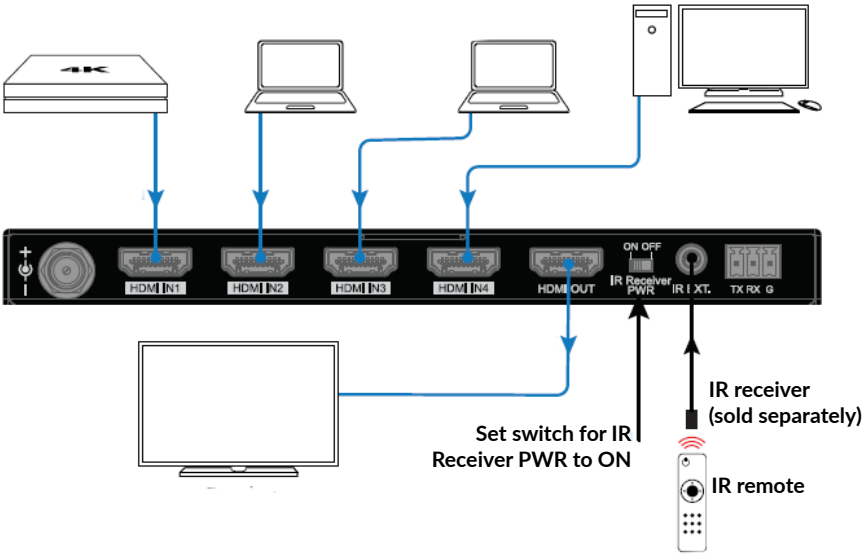
Caution: Disconnect the power from all devices in the system before making connections. Failure to do so may damage a device.

1. Connect the HDMI sources (such as PC, Blu-ray player, Apple TV, 4K media player) to **HDMI IN** 1-4. Ensure you are using a high-quality HDMI cable capable of supplying the desired maximum resolution.
2. Connect the HDMI display device (such as a TV, projector) to **HDMI OUT**. Ensure you are using a high-quality HDMI cable capable of supplying the desired maximum resolution.
3. Connect any additional control options. Refer to the IR Controller Connections or RS-232 Control Connections diagram for more details.
4. Connect the provided 12V DC power adapter.
5. Power on all connected devices.



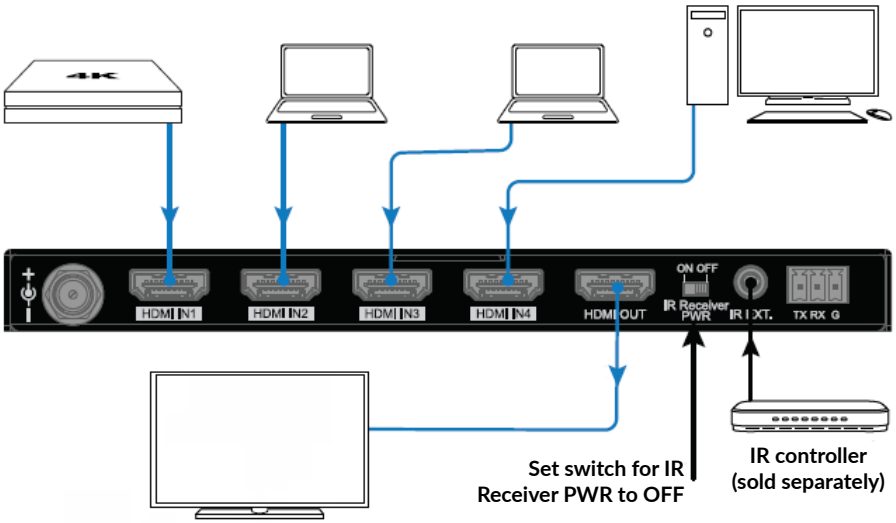
IR Receiver Connections

To control the switch with an IR receiver, set **IR Receiver PWR** to **ON** and connect an IR receiver (sold separately) to the **IR EXT** port.



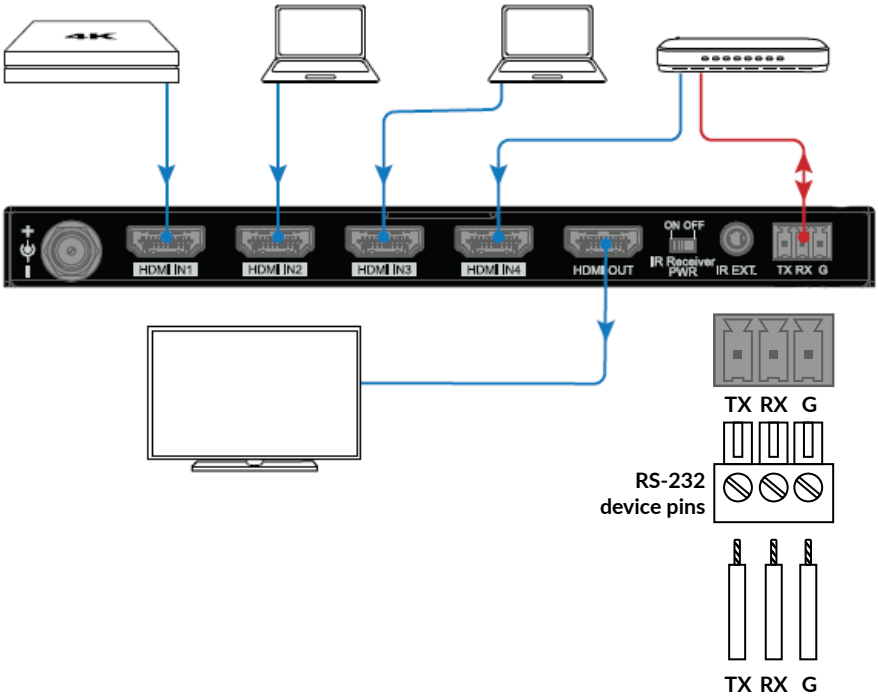
IR Controller Connections

To control the switch with an IR controller, set **IR Receiver PWR** to **OFF** and connect the IR controller (sold separately) to the **IR EXT** port.



RS-232 Control Connections

To control the switch using RS-232, follow the below wiring diagram.



SELECTING A SWITCH INPUT

Front Panel

1. Press the **SWITCH** button, on the front panel, to cycle through inputs.

IR Control

The switch can be controlled via IR using the provided IR remote or using IR via a control system. In order to use the included IR remote, an IR receiver must be purchased separately.

Buttons	IR Codes	Description
▶	0x02 0x0a	Switch to the next active source input (Cycle 1-4).
◀	0x02 0x08	Switch to the previous active source input (Cycle 1-4).
1	0x02 0x04	Switch to source input 1.
2	0x02 0x05	Switch to source input 2.
3	0x02 0x06	Switch to source input 3.
4	0x02 0x0c	Switch to source input 4.
5	N/A	Not available.

Note: The encoding format for the above IR codes is NEC (38 KHz). Any third-party device used for IR control of the switch must support NEC (38 KHz).

RS-232 Control

Configuration for control system serial ports can vary. Refer to the documentation for the system in use for proper connection and configuration. Below are the parameters for RS-232 control.

Important: Devices must be connected to the inputs and outputs of the switch for RS-232 commands to execute.

Parameters	Value
Baud Rate	9600 bps
Data Bits	8 bits
Parity	None
Stop Bits	1 bit
Flow Control	None

The command structure for RS-232 is outlined below.

Function	Command	Parameter	Description	Return
Switch input	SET SWITCH	IN1<CR>	Switch to source input 1.	SWITCH<CR>
		IN2<CR>	Switch to source input 2.	
		IN3<CR>	Switch to source input 3.	
		IN4<CR>	Switch to source input 4.	
		NEXT<CR>	Switch to the next input (Cycle 1-4).	
		PREV<CR>	Switch to the previous input (Cycle 1-4).	

Example: **SET SWITCH IN1<CR>** switches to input 1.
You can use **<CR>** or **<LF>** to end a command. All commands must end with a carriage return or a line feed.

SPECIFICATIONS

Technical	
Connector Type	x4 HDMI In x1 HDMI Out x1 IR EXT x1 RS-232 (Phoenix-type connector) x1 DVC 12V In
Input/Output Signal Type	HDMI with 4K @ 60 Hz YUV 4:4:4, HDCP 2.2
Input/Output Supported Resolution	Up to 4096x2160 @ 60Hz, including 4K @ 60 Hz / 4K @ 30 Hz/1080P/1080i/720p
Supported Audio Formats	PCM 2.0/5.1/7.1, Dolby TrueHD, Dolby Atmos, DTSHD Master Audio, and DTS:X
Maximum Data Rate	18 Gbps
Supported Control Methods	IR, RS-232, CEC, DIP switches

General	
Operating Temperature	0 °C to 40 °C (32 °F to 104 °F)
Storage Temperature	-20 °C to 60 °C (-4 °F to 140 °F)
Humidity	10% to 90%, non-condensing
ESD Protection	Human-body model: ±15kV (air-gap discharge))
Power Supply	-12V DC, 2A
Power Consumption (Max)	-3.19W
Dimensions (W x H x D)	175 mm (6.89") x 16 mm (0.63") x 66.2 mm (2.61") (without mounting ears)
Weight	0.25 kg (0.55 lb)

LIMITED WARRANTY

Find details of the product's Limited Warranty and other safety, patent, and legal resources at **snapone.com/legal** or request a paper copy from Customer Service at **866.424.4489**.

SUPPORT

For chat and telephone, visit **tech.control4.com/s/contactsupport**
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