

# DVDO



**DVDO-Switcher-41**  
4 x 1 4K@60 444 HDMI Switcher

## User Manual

Version: V1.0.0



# Important Safety Instructions



1. Do not expose this apparatus to rain, moisture, dripping or splashing and that no objects filled with liquids, such as vases, shall be placed on the apparatus.



6. Clean this apparatus only with dry cloth.



2. Do not install or place this unit in a bookcase, built-in cabinet or in another confined space. Ensure the unit is well ventilated.



7. Unplug this apparatus during lightning storms or when unused for long periods of time.



3. To prevent risk of electric shock or fire hazard due to overheating, do not obstruct the unit's ventilation openings with newspapers, tablecloths, curtains, and similar items.



8. Protect the power cord from being walked on or pinched particularly at plugs.



4. Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.



9. Only use attachments / accessories specified by the manufacturer.



5. Do not place sources of naked flames, such as lighted candles, on the unit.



10. Refer all servicing to qualified service personnel.

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# Introduction

## Overview

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

DVDO-Switcher-41 Switcher features HDMI 2.0 and HDCP 2.2 compatibility and supports resolutions up to 4K@60Hz 4:4:4 8bit, enabling four Ultra HD sources to be switched to one Ultra HD display. It also allows control through top panel button, IR remote and automatic switch.

## Features

- Cost effective 4 to 1 HDMI switcher
- HDMI 2.0 with 4K@60 4:4:4 8-bit and HDCP 2.2 compliant
- Supports automatic and manual switching
- HDMI input and output cable length up to 49ft/15m + 49ft/15m for 1080P, and up to 10ft/3m + 16ft/5m for 4K@60Hz 4:4:4
- Supports top panel button, IR remote and automatic switch control options
- Compact size and easy-to-install

## Package Contents

Before you start the installation of the product, please check the package contents as below:

- DVDO-Switcher-41 x 1
- DC 5V 1A Power Supply (with US, UK, EU, AU Pins) x 1
- IR Remote x 1
- IR Extension Cable x 1
- User Manual x 1

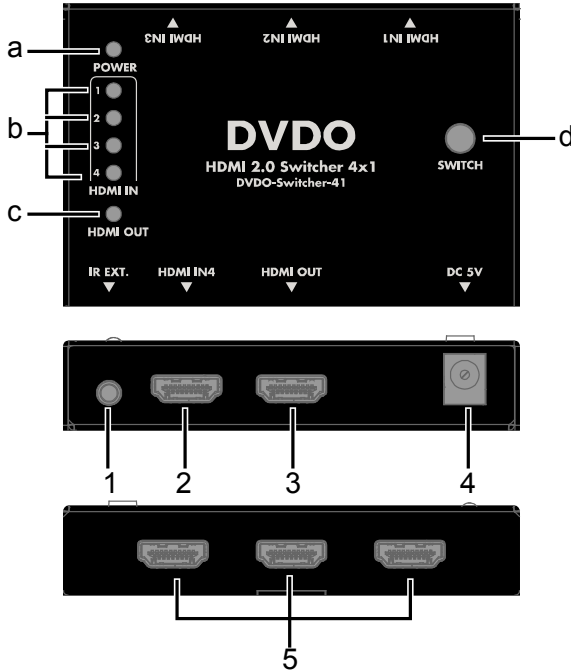
# Specifications

Video	
Input/Output Signal Type	HDMI 2.0 with 4K@60Hz 4:4:4 8bit, HDCP 2.2
Input/Output Resolution Supported	Up to 4096x2160@60Hz, include 4K@60Hz/4K@30Hz/1080P/1080i/720P
Deep color	4K: 8/10/12 bit 1080P: up to 16 bit
Maximum Data Rate	18 Gbps
Maximum Pixel Clock	600MHz
Control Method	IR Remote, Front Panel Button, Automatic Switching
Audio	
Audio Format Supported	Fully supports audio formats in HDMI 2.0 specification, including PCM 7.1, Dolby TrueHD, Dolby Atmos, DTS-HD Master Audio, DTS:X
General	
Operating Temperature	0°C to 45°C (32°F to 113°F)
Storage Temperature	-20°C to 70°C (-4°F to 158°F)
Humidity	10% to 90%, non-condensing
ESD Protection	Human-body Model: ±8kV (Air-gap discharge)/ ±4kV (Contact discharge)
Power Supply	DC 5V 1A
Power Consumption (Maximum)	1.735W
Device Dimension (W x H x D)	100mm x 19.5mm x 66.2mm/3.93" x 0.77" x 2.61"
Product Weight	0.49lb/0.22kg

## Transmission Distance

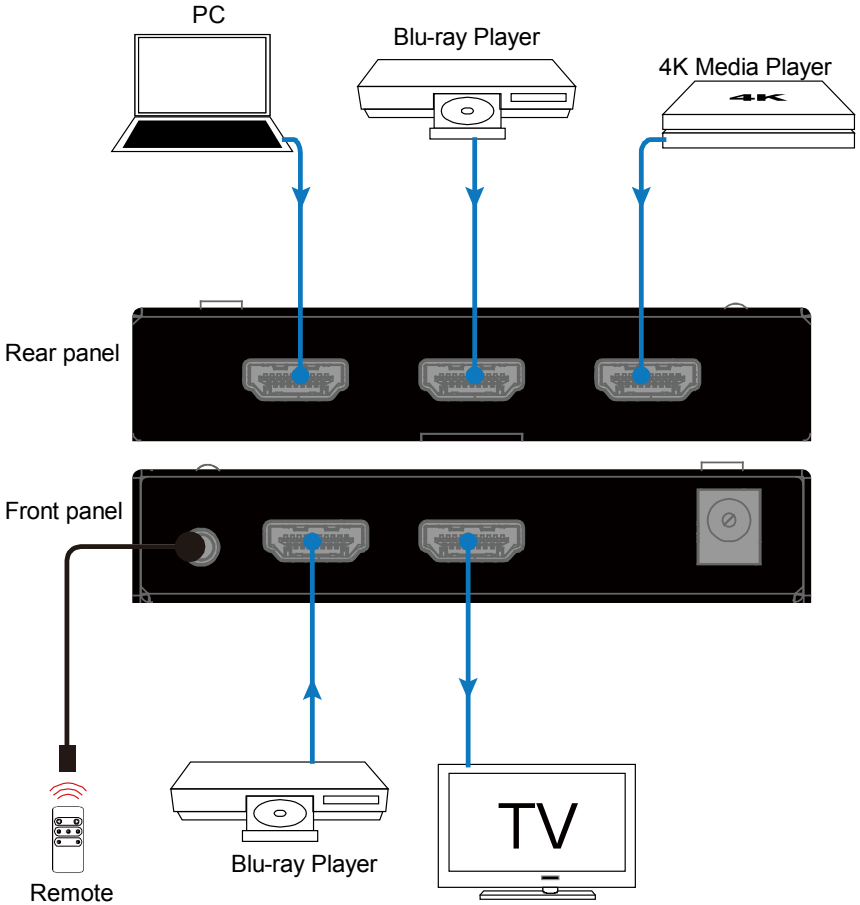
Cable Type	Range	Supported Video
HDMI	Input/Output: 15m/50ft	1080P@60Hz
	Input/Output: 10m/33ft	4K@60Hz 4:2:0
	Input: 3m/10ft	4K@60Hz 4:4:4
	Output: 5m/16ft	

# Panel Description



No.	Name	Description
a	POWER LED	<b>On/Off:</b> The device is powered on/off.
b	HDMI IN LED (1-4)	<b>On:</b> The HDMI source is selected. <b>Off:</b> The HDMI source is not selected.
c	HDMI OUT LED	<b>On:</b> An HDMI display is connected to the switcher. <b>Off:</b> No HDMI display is connected to the switcher.
d	SWITCH button	Press to cycle through sources.
1	IR EXT.	IR extension port. Connect to the IR extension cable provided.
2 & 5	HDMI IN (1-4)	Connect to HDMI source.
3	HDMI OUT	Connect to an HDMI display.
4	DC 5V	Connect to the power supply provided for DC 5V power input.

# Installation and Wiring



## Control of the Switcher

You can choose to control the switcher at your convenience through top panel button, IR remote or automatic switch function.

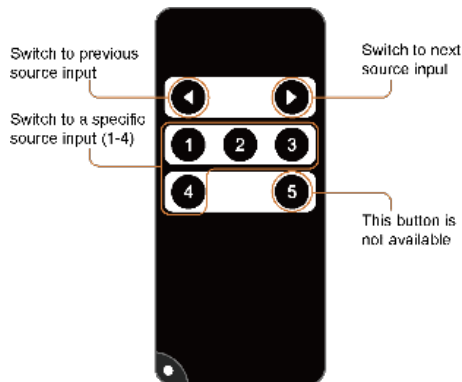
### Top Panel Button Control



Press the SWITCH button to cycle through multiple sources

### IR Remote Control

Switcher can be controlled by the IR remote provided. Point the remote directly at the IR extension cable connected to the "IR Ext." port and switch to the desired input source.





Button	IR Codes	Description
▶	0x02 0x0a	Switch to next active source input (Cycle 1→4).
◀	0x02 0x08	Switch to previous active source input (Cycle 4→1).
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:** Since the encoding format for IR codes above is NEC (38KHz), please ensure any third-party device used to IR control the switcher supports NEC (38KHz).

## Automatic Switch Control

The switcher supports automatic switching and allows you to control it without staying near it or using the IR remote.

When the switcher is powered on, automatic switching will function as follows:

1. When HDMI sources are inserted, the switcher will switch to the latest connected source for output display.
2. When the HDMI source selected is removed, the switcher will switch to the active source with top priority for output display (Priority: input 1 > input 2 > input 3 > input 4).

**Note:** Automatic Switching function can only detect 5V of the input source device. If the selected HDMI source in standby mode provides a continuous 5V power output, the Automatic Switching function will not work, i.e. the switcher will not switch the input to other active sources. In this case, please turn off the standby source device selected or remove it from the switcher.

# Troubleshooting

## 1. No Power

- Ensure the power is on.
- Ensure you use the power adapter provided in the package.

## 2. No Picture or Video Flash

- Ensure all devices are on, and all cables are qualified and connected properly. Ensure all the cables' length are within the maximum distance (refer to **Specification** table).
- Ensure all the LED indicators are normal.
- When connecting source to display directly, ensure them can work properly.
- Ensure the selected HDMI source is working normally instead of in standby status.
- Ensure the input resolution is supported by the device.

## 3. Auto Switching Disabled

To enable auto switching, ensure the HDMI source input can supply DC 5V power.

# Warranty Terms and Conditions

For the following cases we shall charge for the service(s) claimed for the products if the product is still remediable and the warranty card becomes unenforceable or inapplicable.

1. The original serial number (specified by us) labeled on the product has been removed, erased, replaced, defaced or is illegible.
2. The warranty has expired.
3. The defects are caused by the fact that the product is repaired, dismantled or altered by anyone that is not from an authorized service partner. The defects are caused by the fact that the product is used or handled improperly, roughly or not as instructed in the applicable User Guide.
4. The defects are caused by any force majeure including but not limited to accidents, fire, earthquake, lightning, tsunami and war.
5. The service, configuration and gifts promised by salesman only but not covered by normal contract.
6. We preserve the right for interpretation of these cases above and to make changes to them at any time without notice.

# DVDO

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