VIDEO SWITCH

2-Port 8K DisplayPort 1.4 Video Switch with Serial, IR and Push Button Control

Model: VSW-DP14-8K21

PRODUCT OVERVIEW

VSW-DP14-8K21 8K DisplayPort 1.4 Video Switch is a 2-port DisplayPort 1.4 switch with IR and RS-232 serial control, allowing users to select one of two DisplayPort sources and route it to a single display device (monitor or projector). Input selection can be performed via the front panel push buttons, IR remote control (up to 5 meters), or serial commands.

The unit supports DisplayPort 1.4 (HBR3) with a maximum bandwidth of 32.4 Gbps and complies with HDR10, HDCP 2.2 / 1.4, and DisplayPort Multi-Stream Transport (MST) pass-through. No software or driver installation is required; operation is plug-and-play after power connection.

The switch supports video resolutions up to 7680 × 4320 @ 60Hz (4:4:4) with DSC, 5120 × 1440 @ 120Hz (4:4:4), 3840 × 2160 @ 144Hz (4:4:4), and 3840 × 2160 @ 120Hz (4:4:4). EDID pass-through ensures compatibility with 16:9, 21:9, and 32:9 aspect ratio displays.

The VSW-DP14-8K21 is suitable for high-resolution AV systems, gaming setups, professional content creation, and CAD/CAM workstation environments.

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KEY FEATURES

- Allows users to select 1 DisplayPort video input from 2 DisplayPort sources
- Supports DisplayPort 1.4 with resolutions up to:
  - 7680 × 4320 @ 60Hz (4:4:4)
  - 5120 × 1440 @ 120Hz (4:4:4)
  - 3840 × 2160 @ 144Hz (4:4:4)
- Supports variable refresh rate (VRR) technologies and high refresh rates
- Supports HDR10 for enhanced dynamic range and improved lighting and shadow detail
- Provides 3 control methods:
  - Front panel push button
  - IR remote control
  - Serial control
- LED indicators show the status of video inputs
- HDCP 2.2 / 1.4 compliant
- DisplayPort Multi-Stream Transport (MST) compliant (pass-through)
- Suitable for gaming, media, medical, education, control center, and military applications

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PRODUCT SPECIFICATIONS

Features	VSW-DP14-8K21
Video Resolution (Max.)	7680 x 4320 @ 60Hz (4:4:4) (DSC) 7680 x 4320 @ 60Hz (4:2:0) 7680 x 4320 @ 30Hz (4:4:4) 5120 x 2880 @ 60Hz (4:4:4) 5120 x 1440 @ 120Hz (4:4:4) 3840 x 2160 @ 144Hz (4:4:4) (DSC) 3840 x 2160 @ 120Hz (4:4:4) 2560 x 1440 @ 144Hz (4:4:4) 2560 x 1440 @ 120Hz (4:4:4) 2048 x 2048 @ 60 Hz (4:4:4) (2K x 2K)
Video Input	DisplayPort 1.4 x 2
Video Output	DisplayPort 1.4 x 1
Audio Input	3.5 mm Audio Jack x 2
Audio Output	3.5 mm Audio Jack x 1
IR Control	IR Sensor x 1 (Front)
Serial Control	2.5mm Jack x 1 (RS-232)
Push Button Control	Port 1 x 1 Port 2 x 1
LED Indicators	Power (Status) x 1 Video Input x 2
Bandwidth (Max.)	32.4 Gbps (HBR3)
Dynamic HDR	Yes
Variable Refresh Rate (VRR)	Yes (Sync)
HDCP Compliance	HDCP 2.2 and HDCP 1.4
Multi-Stream Transport (MST)	Yes (Passthrough)
Power Supply	DC 9 ~ 12V
Operating Environment	0 ~ 40°C, Humidity < 80%
Storage Temperature	-20 ~ 60°C
Enclosure	Metal
Dimension H x W x D (mm)	34 x 220 x 100
Weight (g)	700

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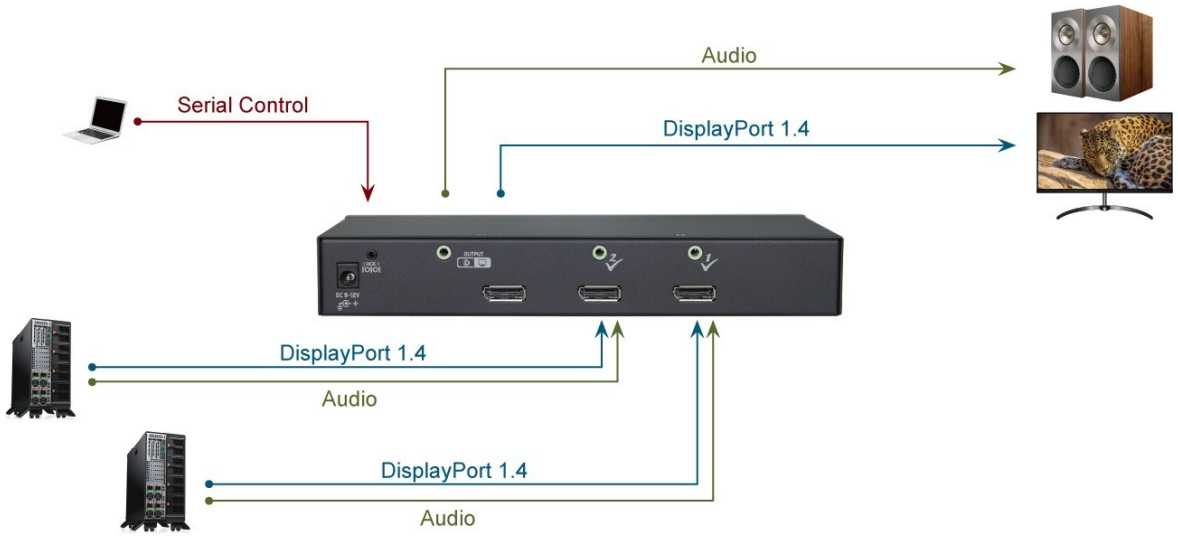
CONNECTION DIAGRAM



Front and Rear Panel View

VIDEO SWITCH

PACKAGE CONTENTS

- 1 × 2-Port DisplayPort Video Switch
- 1 × IR Remote Controller
- 1 × DC Power Adapter
- 1 × User Manual
- 1 × Foot Pad Set

WARRANTY

- Standard 1-Year Limited Warranty, unless otherwise specified by Sales.
- Optional Advance Replacement Warranty is available upon request

ORDERING INFORMATION

Part Number	Descriptions
VSW-DP14-8K21	2-Port 8K DisplayPort 1.4 Video Switch with Serial, IR and Push Button Control

CONTACT INFORMATION

For more information, please visit our website or contact our customer service team:

- **Website:** www.dsgio.com
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