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4. Operation

LED Indicator

The Power LED turns green when the video switch is powered on. When a video port is selected, its corresponding Port LED turns yellow.

Push Button

Press the corresponding button to select a port.

Function button

The Function button adjust the optimal video strength corresponding to the length and quality of DVI cable.

To adjust the video signal strength, follow these steps:

1. Press the Function button three times.

2. Press Push button #1 one or two times to adjust the selected port's input video strength. One beep = Normal or two beeps = Enhance.

   or

   Press Push button #3 one or two times to adjust the selected port's output current. One beep = Normal or two beeps = Enhance.

   or

   Press Push button #4 one, two, or three times to adjust the selected port's output emphasis. One beep = no pre-emphasis, two beeps = low pre-emphasis, three beeps = medium pre-emphasis, or four beeps = high pre-emphasis.

3. Once the setting is finished, press the Function button one time to exit the setting.

5. IR Remote Control

The remote control operates within a 1.5-ft. (5-m) range of the DVI switch. To select a source device with a remote control, press the number button (1–4 or 1–8) to directly switch to the corresponding port.

NOTES:
1. Remove the battery protector on the remote control before operation.
2. On the remote control, only buttons 1–4 are activated. The rest of the buttons are reserved for other models.
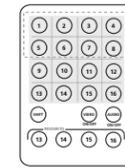

Figure 5-1. Remote control.

6. Serial Control

The DVI and audio switches' built in serial interface enables users to control the switch via a PC, serial controller devices, or home theater system. The controller's serial port should be configured as shown in Table 6-1.

Table 6-1. Serial parameters settings.

Parameter	Setting
Baud Rate	9600
Data Bits	8
Parity	None
Stop Bits	1
Flow Control	None

To select a source device via serial interface, select the number that corresponds to the port. For example, send "1" to switch to Port 1.

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NETWORK SERVICES

4 x 1 DVI and Audio Switch

Send up to four source inputs for screen output to one display.

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1. Specifications

Enclosure — Metal

Maximum Video Resolution — Full HD 1080p (1920 x 1080), WUXGA (1920 x 1200)

Number of DVI Inputs — (4)

Remote Control Support — Yes

Serial Control Support —Yes

User Controls — (1) Function button, (4) port selection buttons

Connectors — Input: (4) DVI (digital only), (4) audio jacks; Output: (1) DVI (digital only), (1) audio jack

Indicators — (5) LEDs: (1) dual-color for Power and Video, (4) LEDs for video input

Power — Consumption: 4.5 W

Size — 1.3"H x 8.7"W x 3.9"D (3.4 x 22 x 10 cm)

2. Overview

2.1 Features

- Select (1) DVI + Audio from (4) DVI + Audio sources.
- Control via front-panel push buttons, IR remote control, or serial control.
- Function button adjusts the optimal video signal strength corresponding to the length or quality of DVI cable.
- LED shows the active status of DVI + Audio sources.
- HDTV compatible.
- Protects content via HDCP.
- Supports up to Full HD 1080p/1920 x 1200 resolution.
- Compatible with most of the popular screen resolutions to XGA, SXGA, UXGA, WSXGA, Full HD, WUXGA system.

2.2 What's Included

4 x 1 DVI and Audio Switch (AVSW-DVI4X1):

- Video switch
- (1) DB9 F to ear jack cable, 3.8-ft. (1.2-m)
- Rear bracket
- Screw kit
- Foot pad
- IR remote controller
- Power supply and power cord
- This user manual

Optional:
- Audio cable

2.3 Hardware Description

Figure 2-1 shows the front and back panels of the AVSW-DVI4X1. Table 2-1 describes its components.
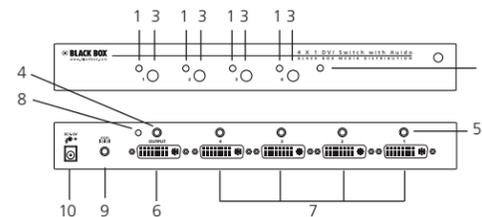

Figure 2-1. 4X1 DVI and Audio switch front and back panels.

Table 2-1. 4X1 DVI and Audio switch components.

Number in Fig. 2-1	Component	Description
1	(4) Input LED indicators	On Yellow when port 1–4 is selected. Off when port 1–4 is not selected.
2	(1) Power LED indicator	On Green when power to the unit is on. Off when power to the unit is off.
3	(4) Push buttons	Press buttons 1–4 to select a port.
4	(1) Audio port (Output)	Connects to a speaker.
5	(4) Audio ports (Input)	Connect to audio sources 1–4.
6	(1) Video port (Output)	Connects to a display.
7	(4) Video ports (Input)	Connect to video sources 1–4.
8	(1) Function button	Adjusts the video signal strength.
9	(1) Serial port	Connects to a computer for serial control.
10	Power supply	Applies power to the unit.

---

3. Installation

- Before installation, power off all devices that will be connected to this system.
- Make sure that all devices you will connect are properly grounded.
- Place cables away from fluorescent lights, air conditioners, and machines that are likely to generate electrical noise.

NOTE: If no screen displays, follow these steps:
1. Make sure the device cables are correctly and firmly attached.
2. Set your display device's input source as DVI.
3. Check the PC BIOS configuration for the video output settings.
4. Connect your computer to the display DIRECTLY to check if the video signal gets through.

Installation Steps

1. Use a video cable (DVI) to connect the display to the video output port on the back of the switch. Plug a set of audio jacks from the speaker to the switch's speaker port.

2. Use a video cable (DVI) to connect the source device to the video input port on the switch. Use an audio cable to connect the speaker port from the input side of the switch to the corresponding output port on the source device.

3. Plug the power supply into the switch and power on the switch.

4. Turn on the display (monitor, projector, or TV) and then power on the source device(s).