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DVI Matrix Switches

Ideal for digital signage!

Simplifies signal routing.

The AC1124A model routes a video and audio signal from 2 DVI sources (computers, media players, TV tuners, etc.) to 4 DVI displays (projectors, monitors, and so on) and speakers.

The AC1125A model routes a video and audio signal from 4 DVI sources to 2 DVI displays and speakers.

Control the switch via a wireless remote control within an 11-foot range.



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FEDERAL COMMUNICATIONS COMMISSION AND INDUSTRY CANADA RADIO FREQUENCY INTERFERENCE STATEMENTS

This equipment generates, uses, and can radiate radio-frequency energy, and if not installed and used properly, that is, in strict accordance with the manufacturer's instructions, may cause interference to radio communication. It has been tested and found to comply with the limits for a Class A computing device in accordance with the specifications in Subpart B of Part 15 of FCC rules, which are designed to provide reasonable protection against such interference when the equipment is operated in a commercial environment. Operation of this equipment in a residential area is likely to cause interference, in which case the user at his own expense will be required to take whatever measures may be necessary to correct the interference.

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

This digital apparatus does not exceed the Class A limits for radio noise emission from digital apparatus set out in the Radio Interference Regulation of Industry Canada.

Le présent appareil numérique n'émet pas de bruits radioélectriques dépassant les limites applicables aux appareils numériques de classe A prescrites dans le Règlement sur le brouillage radioélectrique publié par Industrie Canada.

Normas Oficiales Mexicanas (NOM) Electrical Safety Statement INSTRUCCIONES DE SEGURIDAD

1. Todas las instrucciones de seguridad y operación deberán ser leídas antes de que el aparato eléctrico sea operado.
2. Las instrucciones de seguridad y operación deberán ser guardadas para referencia futura.
3. Todas las advertencias en el aparato eléctrico y en sus instrucciones de operación deben ser respetadas.

DVI Matrix Switches

4. Todas las instrucciones de operación y uso deben ser seguidas.
5. El aparato eléctrico no deberá ser usado cerca del agua—por ejemplo, cerca de la tina de baño, lavabo, sótano mojado o cerca de una alberca, etc.
6. El aparato eléctrico debe ser usado únicamente con carritos o pedestales que sean recomendados por el fabricante.
7. El aparato eléctrico debe ser montado a la pared o al techo sólo como sea recomendado por el fabricante.
8. Servicio—El usuario no debe intentar dar servicio al equipo eléctrico más allá a lo descrito en las instrucciones de operación. Todo otro servicio deberá ser referido a personal de servicio calificado.
9. El aparato eléctrico debe ser situado de tal manera que su posición no interfiera su uso. La colocación del aparato eléctrico sobre una cama, sofá, alfombra o superficie similar puede bloquea la ventilación, no se debe colocar en libreros o gabinetes que impidan el flujo de aire por los orificios de ventilación.
10. El equipo eléctrico deber ser situado fuera del alcance de fuentes de calor como radiadores, registros de calor, estufas u otros aparatos (incluyendo amplificadores) que producen calor.
11. El aparato eléctrico deberá ser conectado a una fuente de poder sólo del tipo descrito en el instructivo de operación, o como se indique en el aparato.
12. Precaución debe ser tomada de tal manera que la tierra física y la polarización del equipo no sea eliminada.
13. Los cables de la fuente de poder deben ser guiados de tal manera que no sean pisados ni pellizcados por objetos colocados sobre o contra ellos, poniendo particular atención a los contactos y receptáculos donde salen del aparato.
14. El equipo eléctrico debe ser limpiado únicamente de acuerdo a las recomendaciones del fabricante.
15. En caso de existir, una antena externa deberá ser localizada lejos de las líneas de energía.

16. El cable de corriente deberá ser desconectado del cuando el equipo no sea usado por un largo periodo de tiempo.
17. Cuidado debe ser tomado de tal manera que objetos líquidos no sean derramados sobre la cubierta u orificios de ventilación.
18. Servicio por personal calificado deberá ser provisto cuando:
 - A: El cable de poder o el contacto ha sido dañado; u
 - B: Objetos han caído o líquido ha sido derramado dentro del aparato; o
 - C: El aparato ha sido expuesto a la lluvia; o
 - D: El aparato parece no operar normalmente o muestra un cambio en su desempeño; o
 - E: El aparato ha sido tirado o su cubierta ha sido dañada.

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DVI Matrix Switches

1. Specifications

Automatic Scan Interval: 8, 15, 30, 45 seconds

DVI Cable Length (Max): 16.4 ft. (5 m)

Operating Temperature: 41 to 104–176° F (5 to 40–176° C)

Resolution Supported (Maximum): 1600 x 1200 at 60 Hz

CE Approval: Yes

Connectors: AC1124A: Input: (2) DVI-I, (2) 3.5-mm stereo;

Output: (4) DVI-I, (4) 3.5-mm stereo;

AC1125A: Input (4) DVI-I, (4) 3.5-mm stereo;

Output: (2) DVI-I, (2) 3.5-mm stereo

NOTE: The analog pins of these DVI-I connectors are not passed through the switch. The DVI-I connectors are used solely to ensure cable compatibility.

Power: Input: 100–240 VAC, 50–60 Hz, autosensing;

Output: 12V DC, 1.5A;

Remote: Auxiliary power

Size: 1.6"H (1U) x 8.7"W x 3.8"D (4.1 x 22 x 9.7 cm)

Weight: 1.6 lb. (0.7 kg)

2. Overview

2.1 Introduction

The 2 x 4 Video Matrix Switch with Audio (AC1124A) routes the video signal and audio signal from 2 DVI sources (computers, media players, TV tuners, etc.) to 4 DVI displays (projectors, monitors, and so on) and 4 speakers. The 4 x 2 Video Matrix Switch with Audio (AC1125A) routes the video signal and audio signal from 4 DVI sources to 2 DVI displays (projectors, monitors, and so on) and 2 speakers.

Use the switch as part of a video/audio signal management system in presentation applications to simplify the process of handling signal routing. Control the switch via a wireless remote control unit within the range of 11 feet (5 meters).

The switch distributes signals from a range of input sources to various output devices, in essence creating a “matrix” pattern of interconnection possibilities. The switch can route a single computer video output and audio output to one or more monitors and speakers. Each image will be as crisp and clear as if directly connected to the original source. Plus, each video output and audio output is buffered from each input, ensuring signal integrity throughout the system.

Use this switch in applications where information from 2 or 4 DVI computers is being presented such as:

- Presentations
- Classrooms
- Exhibits
- Trade shows
- Business meetings
- Entertainment facilities
- Courtrooms
- Monitor tests
- Monitor burn-ins
- Command centers
- Control rooms

2.2 What's Included

Your package should include the following items. If anything is missing or damaged, contact Black Box Tech Support at 724-746-5500.

- 2 x 4 or 4 x 2 DVI Matrix Switch with Audio
- Power adapter
- AC cord
- This user's manual

DVI Matrix Switches

- Serial Control Cable (2.5-mm plug to DB9 female) (for AC1125A only)
- Remote controller
- IR Extension Kit (includes [1] mounting plate [magnetic or screw-mount], [1] pivoting sensor holder, [1] 6-foot remote placement cable, and [2] screws)
- Set of rubber foot pads

2.3 Features

- Routes 2 or 4 different DVI signals as well as the audio sources to 4 or 2 different DVI displays and speakers.
- Remote control from up to 11 feet (5 meters) away from the switch.
- Switches both video and audio simultaneously.
- Supports turning ON/OFF the video of each individual output port respectively.
- Supports turning ON/OFF the audio of each individual output port respectively.
- Multiple outputs do not cause distortion.
- Front buttons for easy switching.
- Press front buttons to activate Auto Scan.
- Selectable Scan Time interval.
- Buzzer sound confirms switching.
- Cascade Video Matrix Switches and control them via a single remote controller.
- Exclusively control up to 16 switches remotely by using one single remote controller; a unique code is assignable for each unit.
- Auto scan is available.
- Connect each input independently to any or all outputs.
- Each output provides one video signal and one audio signal.
- Supports video resolution of 1600 x 1200.
- No additional hardware or software is needed.
- System settings are automatically retained. Recover your previous settings after power blackouts.

2.4 Front Panel

Figures 2-1 and 2-2 show the front panel of the 2 x 4 DVI Matrix Switch (AC1124A) and the 4 x 2 DVI Matrix Switch (AC1125A). Table 2-1 describes both switches' components.

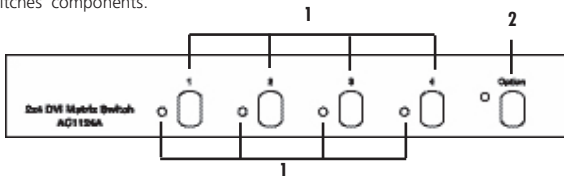


Figure 2-1. AC1124A front panel.

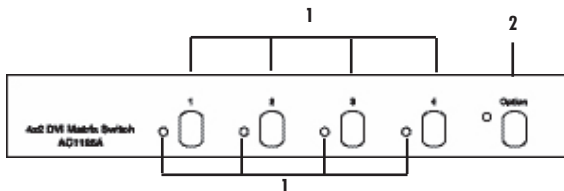


Figure 2-2. AC1125A front panel.

Table 2-1. Front panel components.

Number	Component	Description
1	Buttons and LEDs 1–4	Press the button to select a port. LED functions are described in Chapters 4–7.
2	Option button and LED	LED and option button functions are described in Chapters 4–7.

DVI Matrix Switches

2.5 Rear Panel

Figures 2-3 and 2-4 show the switch's rear panels. Tables 2-2 and 2-3 describe the components.

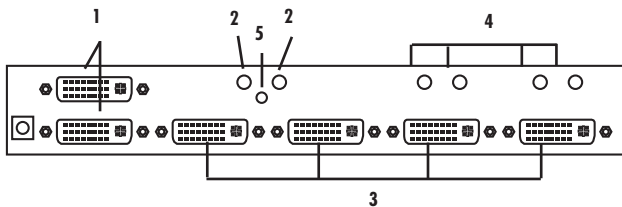


Figure 2-3. AC1124A rear panel.

Table 2-2. AC1124A rear panel components.

Number	Component	Description
1	Source 1 and Source 2 connectors	(2) DVI-I
2	Source 1 and Source 2 audio connectors	(2) 3.5-mm stereo
3	Monitors 1, 2, 3, and 4 connectors	(4) DVI-I
4	Monitors 1, 2, 3, and 4 audio connectors	(4) 3.5-mm stereo
5	Remote control sensor connector	2.5-mm jack

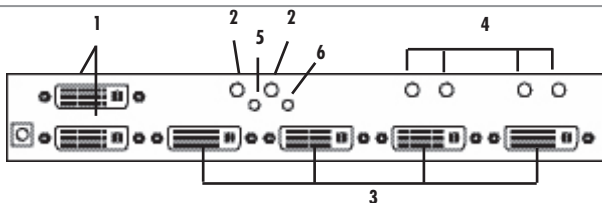


Figure 2-4. AC1125A rear panel.

Table 2-3. AC1125A rear panel components.

Number	Component	Description
1	Monitors 1 and 2 connectors	(2) DVI-I
2	Monitors 1 and 2 audio connectors	(2) 3.5-mm stereo
3	Source 1, 2, 3, and 4 connectors	(4) DVI-I
4	Source 1, 2, 3, and 4 audio connectors	(4) 3.5-mm stereo
5	Remote control sensor connector	2.5-mm jack
6	Auxiliary port	2.5-mm jack

DVI Matrix Switches

3. Installation (AC1124A)

Follow these steps to install the 2 x 4 DVI Matrix Switch (AC1124A).

3.1 Input Connection

1. Connect the source's DVI video port to the switch's source 1 video port. See Figure 3-1.

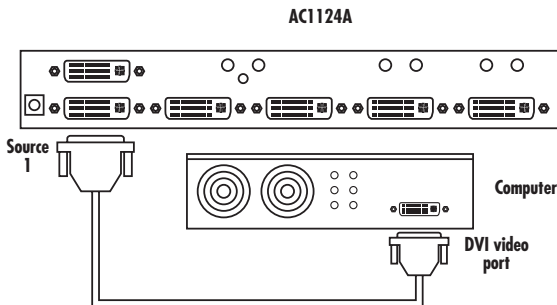


Figure 3-1. Attaching the source's DVI port to the switch's source 1 video port.

Chapter 3: Installation (AC1124A)

2. Connect the source's speaker port to the switch's source 1 audio port. See Figure 3-2.

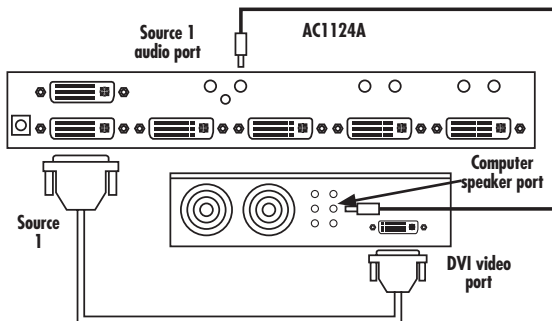


Figure 3-2. Linking the source's speaker port to the switch's source 1 audio port.

3. Repeat Steps 1 and 2 for source 2. See Figure 3-3.

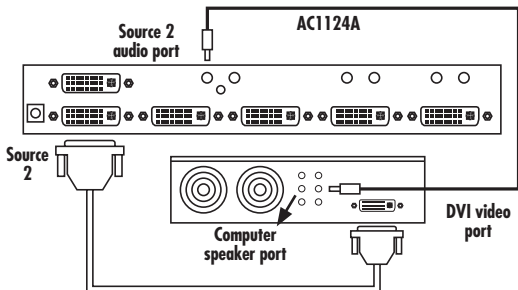


Figure 3-3. Connections for source 2.

DVI Matrix Switches

3.2 Output Connection

1. Connect your monitor 1 to the switch's video port 1. See Figure 3-4.

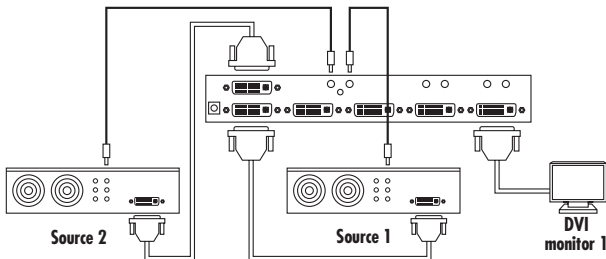


Figure 3-4. Attaching monitor 1 to switch's video port 1.

2. Connect a pair of speakers to the switch's audio port 1. See Figure 3-5.

NOTE: Speakers may be integrated with the monitor or separate.

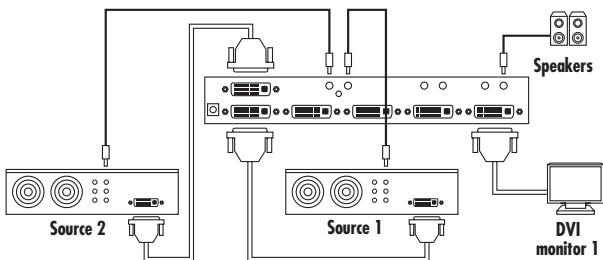


Figure 3-5. Connecting speakers to audio port 1.

3. Repeat Steps 1 and 2 for the switch's video port 2 and audio port 2. See Figure 3-6.

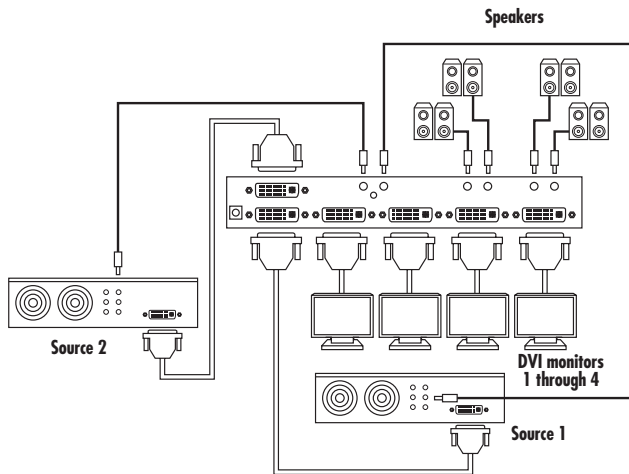


Figure 3-6. Linking video port 2 and audio port 2.

DVI Matrix Switches

4. Power on the switch. See Figure 3-7.

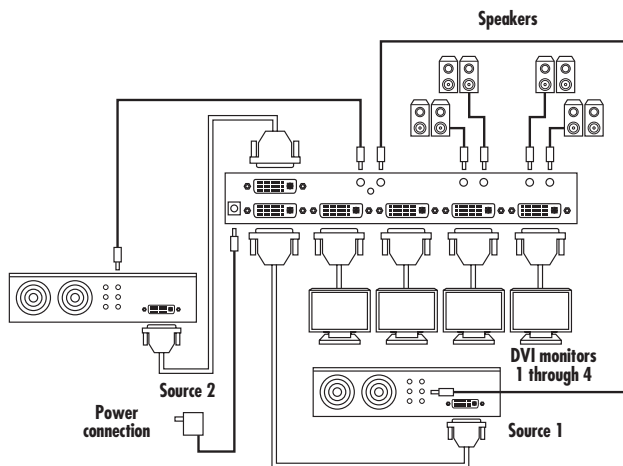


Figure 3-7. Powering on the switch.

4. Installation (AC1125A)

Follow these steps to install the 4 x 2 DVI Matrix Switch (AC1125A).

4.1 Input Connection

1. Connect the source's DVI video port to the switch's source 1 video port. See Figure 4-1.

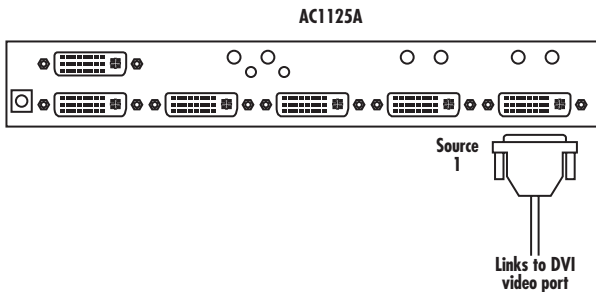


Figure 4-1. Attaching the source's DVI port to the switch's source 1 video port.

DVI Matrix Switches

2. Connect the source's speaker port to the switch's source 1 audio port. See Figure 4-2.

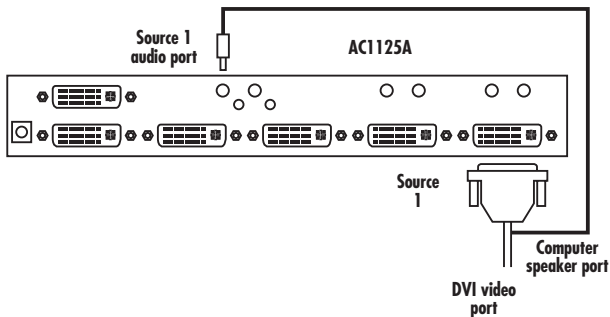


Figure 4-2. Linking the source's speaker port to the switch's source 1 audio port.

Chapter 4: Installation (AC1125A)

3. Repeat Steps 1 and 2 for source 2. See Figure 4-3.

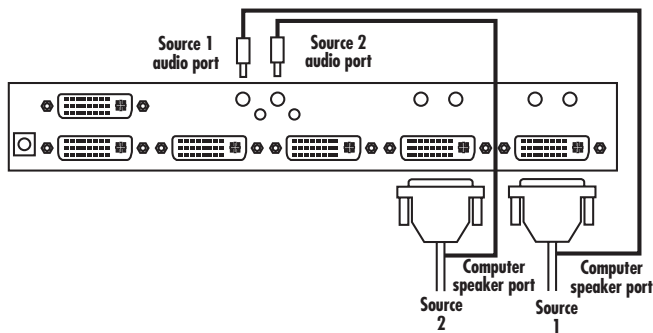


Figure 4-3. Connections for source 2.

DVI Matrix Switches

4.2 Output Connection

1. Connect your monitor 1 to the switch's video port 1. See Figure 4-4.
2. Connect a pair of speakers to the switch's audio port 1. See Figure 4-4.
NOTE: Speakers may be integrated with the monitor or separate.
3. Repeat Steps 1 and 2 for the switch's video port 2 and audio port 2. See Figure 4-4.

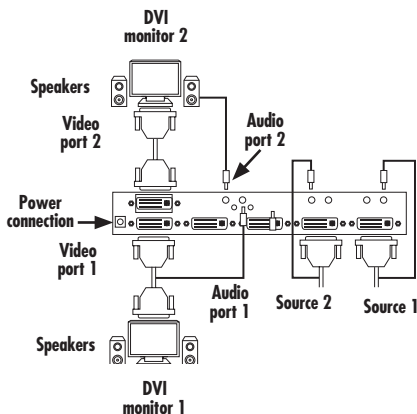


Figure 4-4. Connecting video and audio port 1 and port 2 output.

4. Power on the switch.

5. Basic Operation (AC1124A)

5.1 Front Panel

Once the unit is powered on, all four red LEDs will light. By default, the AC1124A switch routes source 1 to monitors 1 through 4. When all four LEDs are blinking, source 1 is empty or not detected. When all four LEDs are steady on, the switch detects the video signal from source 1.

Route Source 1 or Source 2 to Monitor 1 through Monitor 4

1. Press the desired port button, for example, "4." See Figure 5-1.

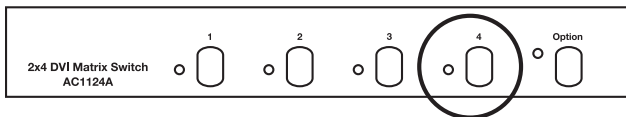


Figure 5-1. Port 4 button.

2. LEDs "1" and "2" blink. See Figure 5-2.

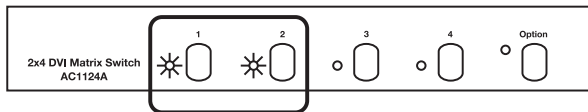


Figure 5-2. LEDs 1 and 2.

"1" represents Source 1.

"2" represents Source 2.

"Green" means the video signal is detected.

"Red" means NO video signal detected.

3. Press 1 or 2 within 3 seconds to select source 1 or source 2. After you select a source, the LED "4" will become either "red" or "orange."

"Red" means Source 1 is selected.

"Orange" means Source 2 is selected.

4. Repeat Steps 1 through 3 for routing other ports.

DVI Matrix Switches

5.2 Remote Control

You can control the switch remotely in two ways. When the external sensor is not connected to the switch, the internal sensor works with the remote controller. When the external sensor is connected to the switch, the internal sensor is disabled, and the remote control works with the external sensor.

Route Source 1 or Source 2 to Monitor 1 or Monitor 2

1. Connect the external sensor. See Figure 5-3.

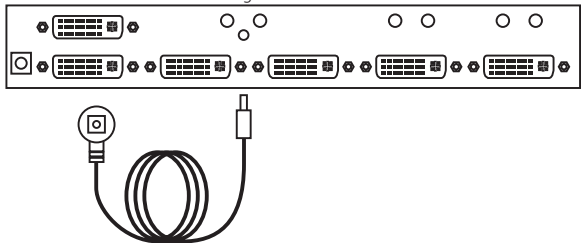


Figure 5-3. Connecting the external sensor.

NOTE: For the AC1125A, only buttons “1” through “4” are activated. Buttons “5” through “16” are reserved for future models.

2. Press the desired port, for example, “4.” See Figure 5-4.

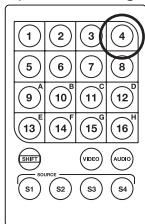


Figure 5-4. Monitor 4 button on remote control.

Chapter 5: Basic Operation (AC1124A)

3. Press "S1" or "S2" to route source 1 or 2 to monitor 4 (M4). See Figure 5-5.

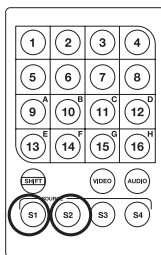


Figure 5-5. S1/S2/S3/S4 buttons on the remote control.

4. Repeat Steps 1 and 3 for routing other ports.

To turn the video or audio ON/OFF, simply press the "VIDEO" button or the "AUDIO" button.

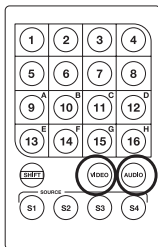


Figure 5-6. Video and audio buttons on the remote control.

DVI Matrix Switches

6. Basic Operation (AC1125A)

6.1 Front Panel

Once the unit is powered on, all four red LEDs will light. By default, the AC1125A routes source 1 to monitors 1 or 2. When all four LEDs are blinking, source 1 is empty or not detected. When all four LEDs are steady on, the switch detects the video signal from source 1.

Route Source 1 through Source 4 to Monitor 1 or Monitor 2

1. Press the desired port button, for example, "4." See Figure 5-1.

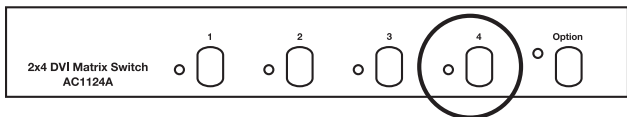


Figure 6-1. Port 4 button.

2. All four LEDs blink. See Figure 5-2.

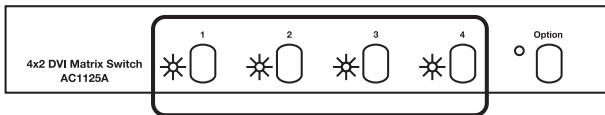


Figure 6-2. LEDs 1 through 4.

"1" represents Source 1.

"2" represents Source 2.

"3" represents Source 3.

"4" represents Source 4.

"Green" means the video signal is detected.

"Red" means NO video signal detected.

3. Press 1, 2, 3, or 4 within 3 seconds to select source 1 2, 3, or 4. After you select a source, the LED "2" will become either "red" or "orange."
"Red" means Source 1 is selected.
"Orange" means Source 2 is selected.
"Yellow" means Source 3 is selected.
"Green" means Source 4 is selected.
4. Repeat Steps 1 through 3 for routing other ports.

6.2 Remote Control

You can control the switch remotely in two ways. When the external sensor is not connected to the switch, the internal sensor works with the remote controller. When the external sensor is connected to the switch, the internal sensor is disabled, and the remote control works with the external sensor.

Route Source 1 through Source 4 to Monitor 1 or Monitor 2

1. Connect the external sensor. See Figure 6-3.

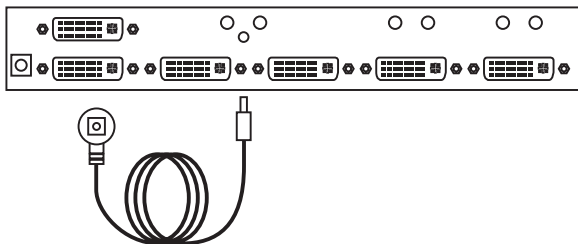


Figure 6-3. Connecting the external sensor.

NOTE: For the AC1125A, only buttons "1" through "2" are activated. Buttons "3" through "16" are reserved for future models.

DVI Matrix Switches

2. Press the desired port, for example, "2." See Figure 6-4.

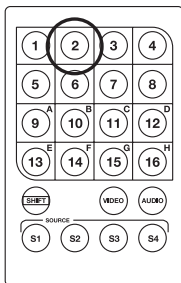


Figure 6-4. Monitor 2 button on remote control.

3. Press "S1/S2/S3/S4" to route source 1/2/3/4 to monitor 2 (M2). See Figure 6-5.

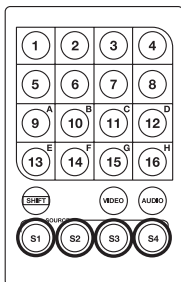


Figure 6-5. S1/S2/S3/S4 buttons on the remote control.

Chapter 6: Basic Operation (AC1125A)

4. Repeat Steps 1 and 3 for routing other ports.

To turn the video or audio ON/OFF, simply press the “VIDEO” button or the “AUDIO” button.

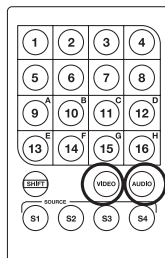


Figure 6-6. Video and audio buttons on the remote control.

DVI Matrix Switches

6.3 Serial Control

The DVI Matrix Switch's built-in serial interface allows users to control the switch through a PC, serial controller devices, or home theater system.

NOTE: Use a 2.5-mm plug to DB9 F connector cable (included).

Configure the controller's serial port as shown below:

Baud rate: 9600

Data bits: 8

Parity: None

Stop bits: 1

Flow control: None

```
DVI Video & Stereo Radio Signal Management System Home Page V1.0.1
-----
Monitor 1 <-- Source 1      Video: ON      Audio: ON      Auto Scan: ON
Monitor 2 <-- Source 1      Video: ON      Audio: ON      Auto Scan: OFF
Source 1: Video Signal Detected.
Source 2: No Video Signal Detected.
Source 3: No Video Signal Detected.
Source 4: No Video Signal Detected.
Auto Scan Time Interval: 8 seconds.      Remote Controlling ID: 1
-----

-----
0. Display System Status.
1. Configure Monitor 1.
2. Configure Monitor 2.
9. Set Auto Scan Time Interval
Choice: _
```

Figure 6-7. Configuration screen.

Chapter 6: Basic Operation (AC1125A)

To select a source device via serial interface, select the number that corresponds to the port it is connected to as shown in Figure 6-8.

```
-----
0. Display System Status
1. Configure Monitor 1.
2. Configure Monitor 2.
9. Set Auto Scan Time Interval.
Choice: 1
Auto Scan Stopped.
Monitor 1 <-- Source 1      Video: ON      Auto Scan: OFF
Monitor 1 Configuration.
0. Display System Status
1. Route Source 1 to Monitor 1.
2. Route Source 2 to Monitor 1.
3. Route Source 3 to Monitor 1.;
4. Route Source 4 to Monitor 1.
7. Set Video ON/OFF
8. Set Audio ON/OFF
9. Set Auto Scan ON/OFF
Choice:
```

Figure 6-8. Choosing a source device via the serial interface.

```
Source 4: No Video Signal Detected.  
Auto Scan Time Interval: 8 seconds. Remote Controlling ID: 1  
-----  
0. Display System Status.  
1. Configure Monitor 1.  
2. Configure Monitor 2.  
9. Set Auto Scan Time Interval.  
Choice: 2  
Monitor 2 Configuration.  
0. Display System Status.  
1. Route Source 1 to Monitor 2.  
2. Route Source 2 to Monitor 2.  
3. Route Source 3 to Monitor 2.  
4. Route Source 4 to Monitor 2.  
7. Set Video ON/OFF  
8. Set Audio ON/OFF  
9. Set Auto Scan ON/OFF  
Choice:
```

Figure 6-9. Source 4 screen.


```
Source 1: Video Signal Detected.
Source 2: No Video Signal Detected.
Source 3: No Video Signal Detected.
Source 4: No Video Signal Detected.
Auto Scan Time Interval: 8 seconds.      Remote Controlling ID: 1
-----
-----
-
0. Display System Status
1. Configure Monitor 1.
2. Configure Monitor 2.
9. Set Auto Scan Interval.
Choice: 9
Select Auto Scan Time interval
0. Display System Status
1. Represents 8 seconds.
2. Represents 15 seconds.
3. Represents 30 seconds.
4. Represents 45 seconds.
Choice: _
```

Figure 6-10. Press “9” to set the scan time interval.

DVI Matrix Switches

```
Choice: 1
Monitor 1 Configuration.
0. Display System Status.
1. Route Source 1 to Monitor 1.
2. Route Source 2 to Monitor 1.
3. Route Source 3 to Monitor 1.
4. Route Source 4 to Monitor 1.
7. Set Video ON/OFF
8. Set Audio ON/OFF
9. Set Auto Scan ON/OFF
Choice: 1
Monitor 1 <-- Source 1   Video: ON   Audio: ON   Auto Scan: OFF
-----
0. Display System Status.
1. Configure Monitor 1.
2. Configure Monitor 2.
9. Set Auto Scan Time Interval.
Choice:
```

Figure 6-11. Route source 1 to monitor 1.

```
1. Route Source 1 to Monitor 1.
2. Route Source 2 to Monitor 1..
3. Route Source 3 to Monitor 1.
4. Route Source 4 to Monitor 1.
7. Set Video ON/OFF
8. Set Audio ON/OFF
9. Set Auto Scan ON/OFF
Choice: 9
Monitor 1 <-- Source 1 Video: ON Audio: ON Auto Scan: ON
Source 1: Video Signal Detected.
Source 2: No Video Signal Detected.
Source 3: No Video Signal Detected.
Source 4: No Video Signal Detected.
Auto Scan Time Interval: 8 seconds
-----
-----
0. Display System Status.
1. Configure Monitor 1.
2. Configure Monitor 2.
9. Set Auto Scan Time Interval.
Choice: _
```

Figure 6-12. Turn on the auto scan function.

DVI Matrix Switches

When a user plugs or unplugs the Matrix Switch's DVI cable, the administrator can see it on the terminal window immediately.

```
Source Status Changed. Source 1 text.
-----
0. Display System Status.
1. Configure Monitor 1.
2. Configure Monitor 2.
9. Set Auto Scan Time Interval.
Choice:
Source Status Changed: Source 3 Detected.
-----
0. Display System Status.
1. Configure Monitor 1.
2. Configure Monitor 2.
9. Set Scan Time Interval.
Choice: _
```

Figure 6-13. DVI cable plugged or unplugged status changed screen.

Chapter 7: Advanced Operation (AC1124A or AC1125A)

7. Advanced Operation (AC1124A or AC1125A)

7.1 Front Panel

7.1.1 Turn the Video ON/OFF

1. Press the desired port button, for example, "2."

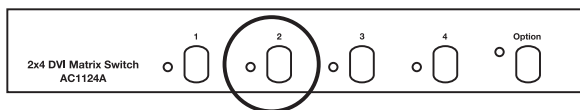


Figure 7-1. Port button 2.

2. Press AND hold "Option." LED 1 lights.
LED 1: Green light means the monitor's video output is turned on. Red light means it is turned off.

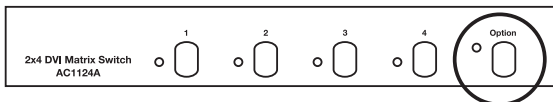


Figure 7-2. Option button.

3. Press button "1" to turn OFF monitor 2's video.

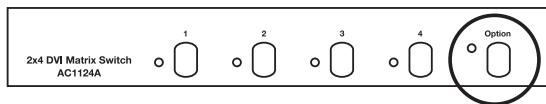


Figure 7-3. Button 1: power off monitor.

4. If necessary, repeat steps 1 through 3 to turn ON monitor 2's video.

DVI Matrix Switches

7.1.2 Turn the Audio ON/OFF

1. Press the desired port, for example, "2."

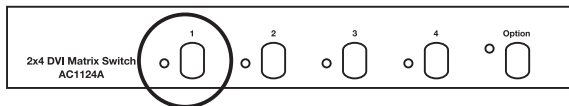


Figure 7-4. Button 1: power off audio.

2. Press and hold "Option." LED 2 lights.
LED 2: Green light means the monitor's audio output is turned on. Red light means it is turned off.

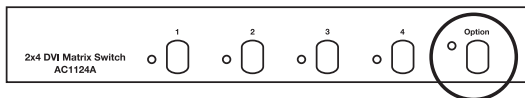


Figure 7-5. Option button.

3. Press "2" to turn OFF monitor 1's audio.

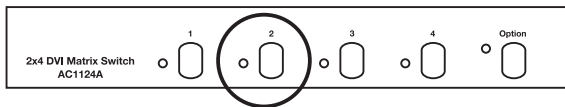


Figure 7-6. Button 2: power off monitor 1's audio.

4. If necessary, repeat steps 1 through 3 to turn another monitor's audio ON.

Chapter 7: Advanced Operation (AC1124A or AC1125A)

7.1.3 Turn the AutoScan ON/OFF

In this auto scan mode, the AC1124A switch automatically switches between source 1 to source 2 sequentially in a fixed interval for a particular monitor.

1. Press the desired port, for example, "4."

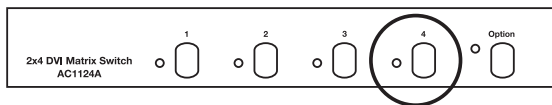


Figure 7-7. Port button 4.

2. Press AND hold "Option."

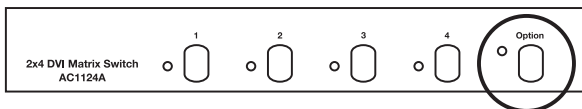


Figure 7-8. Option button.

3. Press "3" to turn ON the auto scan mode for monitor 4.

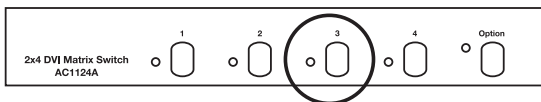


Figure 7-9. Button 3: turn on autoscan for monitor 4.

4. If necessary, repeat steps 1 through 3 to turn OFF the auto scan mode of monitor 4. During the auto scan, you can press "4" to turn OFF monitor 4's auto scan. If necessary, repeat steps 1 through 3 to turn ON the auto scan mode for another monitor.

DVI Matrix Switches

7.1.4 Set the Auto Scan Time Interval

1. Press buttons "3" and "4" at the same time.

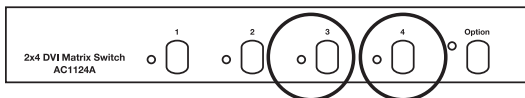


Figure 7-10. Buttons 3 and 4.

2. When "1", "2", "3", "4" LEDs start blinking, press one of them to set the auto scan time interval.

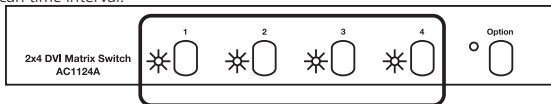


Figure 7-11. LEDs 1–4.

- "1" represents 8 seconds.
- "2" represents 15 seconds.
- "3" represents 30 seconds.
- "4" represents 45 seconds.

7.1.5 Restore Default Settings

AC1124A:

1. Power OFF the switch.
2. Press AND hold "Option."
3. Power ON the switch and press "1."
4. Release "Option."
5. Power OFF the switch again.
6. Power ON the unit to restore default settings.

AC1125A:

1. Power OFF the switch.
2. Press AND hold "Option."
3. Power ON the switch.
4. Press "1" to restore default settings.

7.2 Unit Stack

This function allows the user to use one remote controller to control up to 16 switch units.

7.2.1 Set the Remote Control ID on the System

1. Power OFF the switch.
2. Press and hold "1" and "2" at the same time.
3. Power ON the switch.
4. Release "1" and "2."
5. Select any one of the "1" through "16" remote control buttons on the remote control, for example, "4". This sets the current switch remote control ID to 4.
6. To control this switch, press "SHIFT"+"4" on the remote controller. The unit with remote control ID 4 will beep twice and the Power LED will blink continuously.
7. Repeat steps 1 to 5 if there is more than 1 switch unit cascaded.

NOTE: Each unit must be assigned a different remote control ID. More than one switch with the same ID will result in two switches receiving remote control commands simultaneously. The factory default remote control ID is 1.

7.2.2 Optimize the Video Signal Strength (for AC1124A Only)

Adjust the optimal video signal strength corresponding to the length or quality of DVI cable since each monitor can be routed to one of the two input sources. As a result, each monitor has two different video strength settings.

For example, if you want to change the video strength setting of source 2 for monitor 3, follow these steps:

1. Switch monitor 3 to source 2 (see Chapter 4 for details).
 2. Press the desired port, for example, "3."
 3. Press AND hold "Option."
 4. Press "4" to turn ON the video signal strength setting mode for monitor 3.
 5. Press "1" once or twice to adjust the selected port's input video strength. LED 1 lights "green" to indicate normal strength or lights "red" to indicate enhanced strength.
- or
- v Press "3" once or twice to adjust the selected port's output current. LED 3 lights "green" to indicate normal current or lights "red" light to indicate enhanced current.

or

DVI Matrix Switches

- v Press "4" one, two, three, or four times to adjust the selected port's output priority. LED 4 lights "green" for no priority, lights "yellow" for low priority, lights "orange" for medium priority, or lights "red" for high priority.
5. Once you set the port's priority, press the "Option" button to exit the setting

7.2.3 Copy the EDID to the Video Matrix Switch (for AC1125A Only)

In some cases, display problems may occur because of incorrect EDID communication between the monitor and the PC graphics card or insufficient EDID data programmed by display manufacturers. Follow the steps below to copy the monitor's EDID to the switch before operation.

1. Power OFF the AC1125A.
2. Press and hold buttons "3" and "4" simultaneously.
3. Power ON the AC1125A.
4. Release button "3" and "4" immediately after the switch is powered ON.
5. Press button "1" to copy the EDID from monitor 1 to the AC1125A.
6. If necessary, repeat Steps 1 through 5 to copy the EDID of monitor 2 to the AC1125A.

8. Rackmount Kit (optional) and Multi-Mode Remote Sensor Kits

Figure 8-1 shows how to attach optional mounting brackets to the Video Matrix Switch for the industrial standard 19-inch rack cabinet. The mounting brackets are available by special order only.

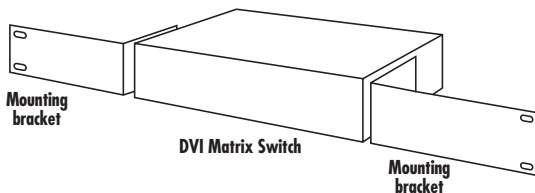


Figure 8-1. Rackmounting the switch.

Figure 8-2 shows the Remote Sensor Kit's components.

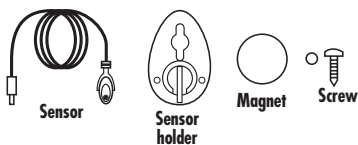


Figure 8-2. Multi-Mode Remote Sensor kit.

DVI Matrix Switches

Figures 8-3 through 8-5 show the switch in different modes.

1. Wallmount (use screws and the metal plate to fasten the multi-mode stand in its proper position).

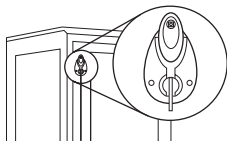


Figure 8-3. Wallmount sensor.

2. Pedestal (use a metal plate to fasten the multi-mode stand in its proper position).

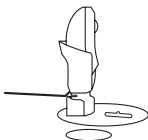


Figure 8-4. Pedestal sensor.

3. Attach (plug the external sensor into the switch).

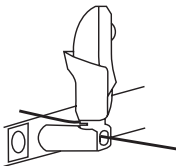


Figure 8-5. Attach sensor.