

2x4 DVI Matrix

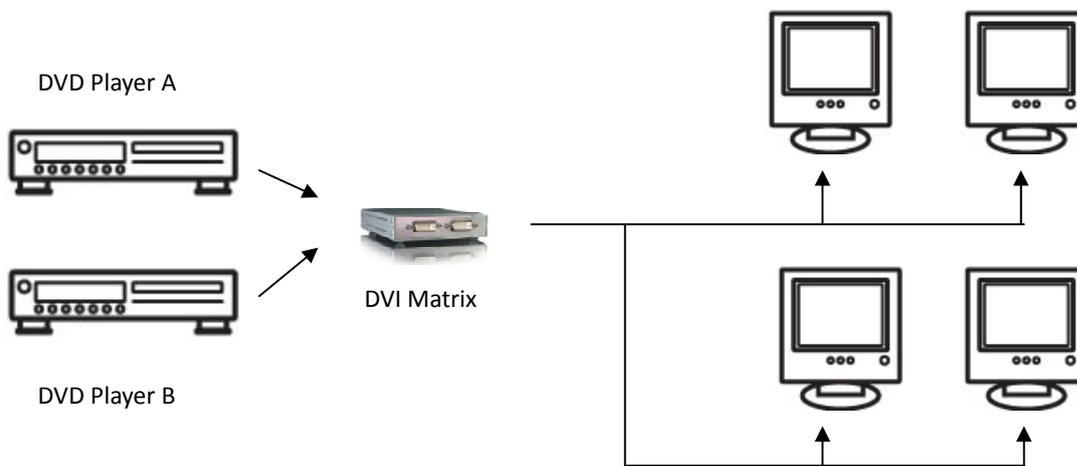
AS-2124

User Manual



Introduction

The AS-2124 allows you to switch between two DVI sources and four DVI displays independently with compact pattern generator functionality. Any input can be switched into any output through a remote control. To simplify the switching process, AS-2124 comes with an IR remote control. If you don't have an IR remote control nearby, AS-2124 can also be configured by two DIP switches (one rotary switch and one DIP switch). Furthermore, the AS-2124 is designed to regenerate every signal carried to itself so that every signal sent out from the AS-2124 is as crystal clear as the original.



Features

- Pixel Rate up to 165MHz.
- Maintains highest resolution digital video with no loss of quality
- Configured by IR remote control with OSD display.
- Embedded Pattern Generator.
- Supports EDID learning. The AS-2124 can get the EDID information for the output device and pass it to the input equipment.
- DIP switch configuration. Without IR remote control, the switcher can also be configured by the DIP switch and the rotary switch.
- Can be cascaded more than two tiers. The signal carried to the AS-2124 will be decoded and encoded.
- Compact size.

Package Contents

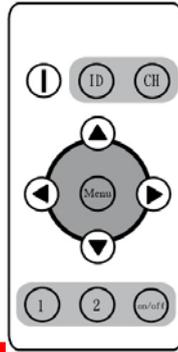
1. 1x AS-2124
2. 1x IR remote control
3. 3x DVI Y-cable
4. 1x User Manual
5. 1x 5V DC power adapter

Technical Specifications

- Video Amplifier Bandwidth: 1.65 Gbps
- Input Video Signal: 1.2 volts p-p
- Input DDC Signal: 5 volts p-p (TTL)
- Single Link Range: 1080p/1920 x 1200
- DVI Connector: DVI-I 29 pin female (digital only)
- Power Supply: 5 VDC
- Power Consumption: 10 watts (max)
- Dimensions: 130mm/5.1"x 110mm/4.3"x 25mm/1"(Lx Wx H)
- Weight: 340g/12oz

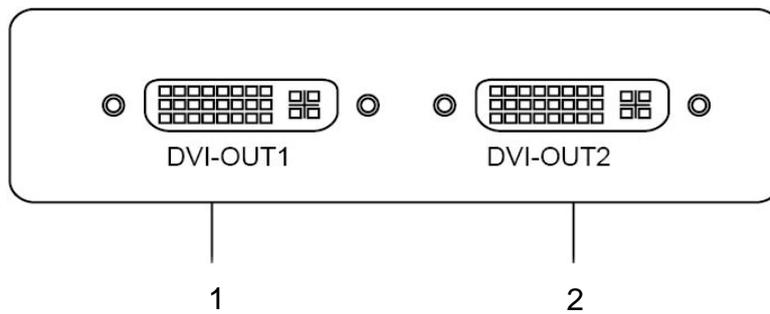
Remote Control

- Figure below shows the remote control of the AS-2124. Only four arrow buttons and the menu button works. The remaining buttons are reserved and no use for this product.
- Press “Menu” to launch OSD menu and use arrow buttons to move around the items in the OSD menu. Right arrow button allows you to confirm your selection. Press “Menu” again to exit the OSD menu.



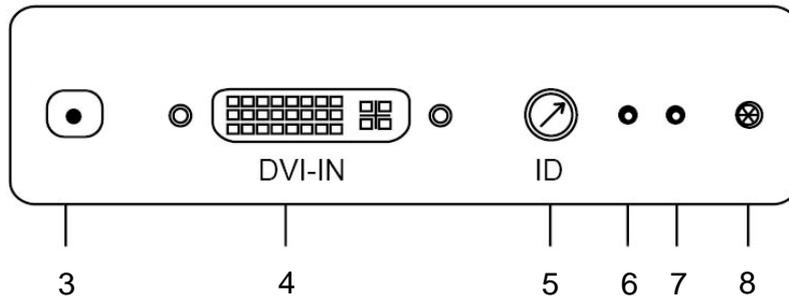
Panel Descriptions

Front View



1. Please plug in one DVI Y-cable here and connect 1st and 2nd DVI monitor.
2. Please plug in one DVI Y-cable here and connect 3rd and 4th DVI monitor.

Rear Panel



3. 5V DC power jack
4. Plug in one DVI Y-cable here and connect 1st and 2nd DVI sources.
5. Rotary switch. For detailed setup, please see the next section.
6. LED indicator (EDID)
7. Power indicator
8. IR receiver

DIP Switch

When the remote control is not available, the switcher can also be configured by DIP switch shown as the following:

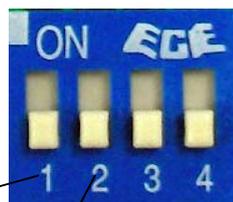


Fig.1

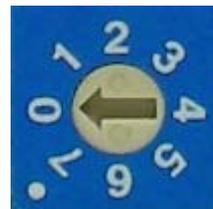


Fig.2

*Please always set DIP Switch 1 at **ON**.

*When you need to configure the device by DIP Switch, Set DIP Switch 2 at **ON**. Set DIP Switch at **OFF** only when you need to control the device by remote control.

Dip Switch	3 On	3 Off
4 On	Output 4	Output 3
4 Off	Output 2	Output 1

Table 1

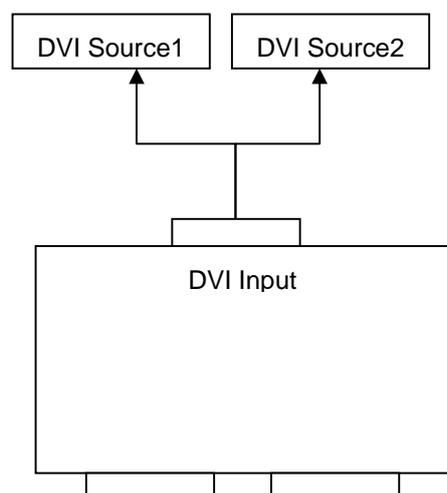
Rotary ξ	DVI Output1	DVI Output2
0		Source 1
1		Source 2
2		Pattern 1
3		Pattern 2
4		Reserved, no use
5		Pattern 4
6		Pattern 5
7		Reserved, no use

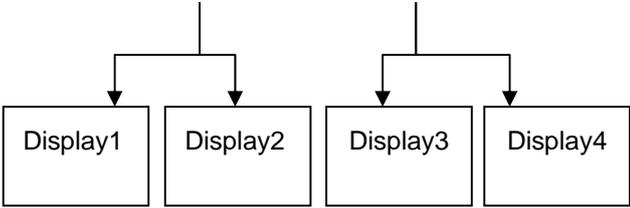
Table 2

Fig.1 shows a DIP switch from which you can select a specific output. Fig.2 shows a rotary switch that allows you to select an input source or a test pattern. The two switches should be configured at the same time. For example, if you want to set 1st display to show source 1, please follow the steps. Firstly, see table 1 and set DIP switch at 3 off and 4 off position (output 1). Secondly, turn rotary switch to 0 (source 1).

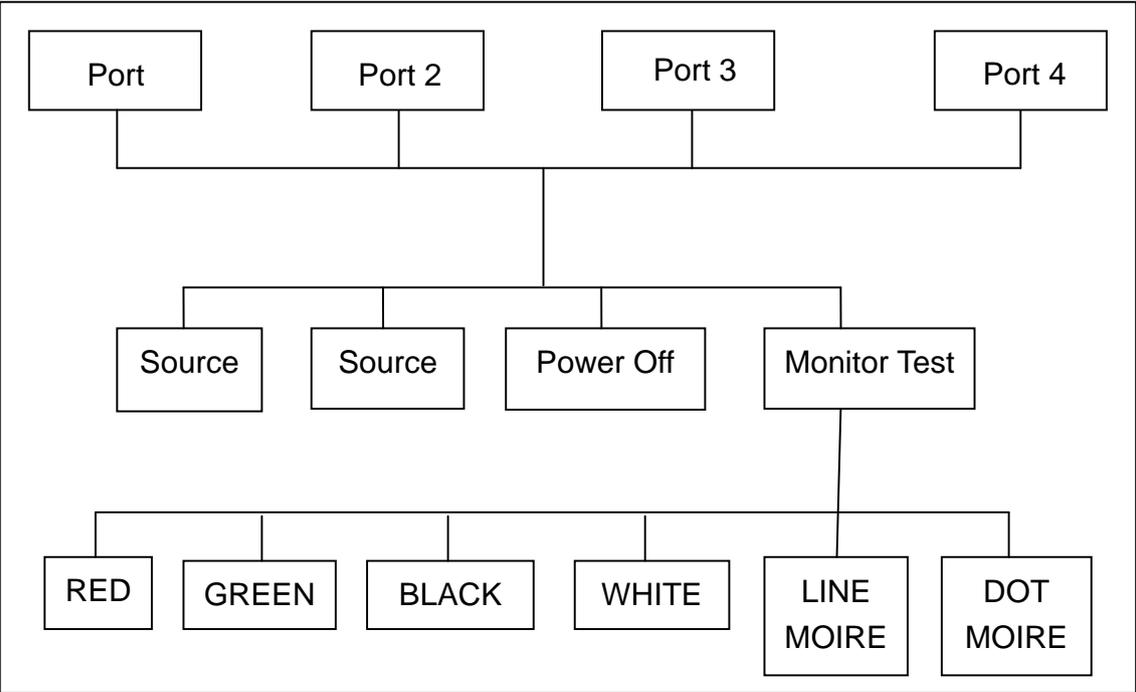
Hardware Installation

1. Plug in a DVI Y-cable to DVI Input.
2. Plug in a DVI Y-cable to DVI Output1 and a Y-cable to DVI Output 2.
3. Connect source 1 and source 2 to the Y-cable that plugged in DVI Input.
4. Connect display 1 and display 2 to the Y-cable that plugged in DVI Output 1.
5. Connect display 3 and display 4 to the Y-cable that plugged in DVI Output 2.

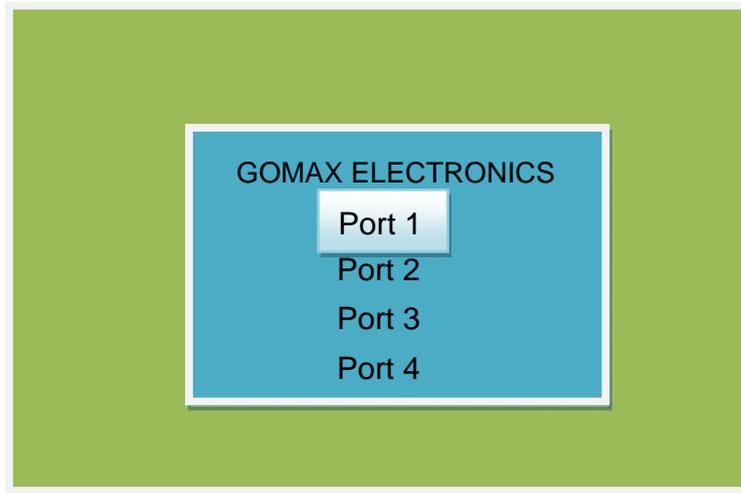




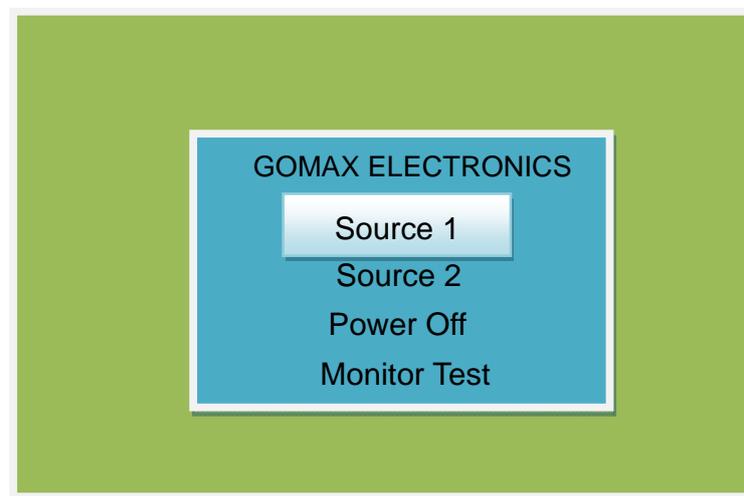
All I/O configurations can be readily set up by the remote control through an OSD menu. Below shows the OSD menu tree:



Press "Menu" on the remote control and then the OSD menu pops up as below,

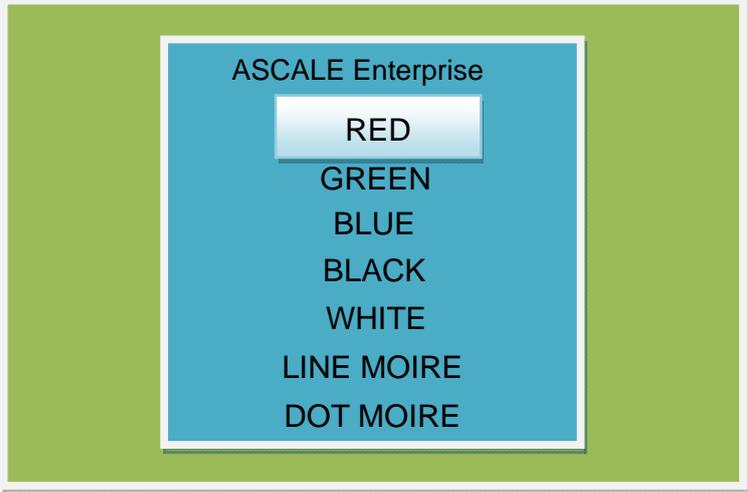


In this page, you can select any output port you want to configure. After you press the up/down arrow button on the remote control to select a specific port, the menu will automatically be changed to the next page shown as below:



In this page, you can select the video source you want to send to the port selected. The input DVI connector can connect to 2 different video sources and shown as Source 1 and Source 2. If you want to save power, you can turn off the chip by selecting "Power Off." Then, the port will turn to the idle mode. The "Monitor Test" function triggers the embedded pattern generator. It can help to check dead/lazy pixel and some LCD status.

When the Monitor Test item is selected, it will turn to the next OSD table shown as the following:



In the pattern menu, each item stands for a pattern. For example, the first five patterns show a single color to help check dead pixels.

Limited Warranty

Ascale warrants the AS-2124 2x4 DVI Matrix to be free from defects in the material and workmanship for 1 year from the date of purchase from Ascale or an authorized dealer. Should this product fail to be in good working order within 1 year warranty period, Ascale, at its option, repair or replace the unit, provided that the unit has not been subjected to accident, disaster, abuse or any unauthorized modifications including static discharge and power surges.

Unit that fails under conditions other than those covered will be repaired at the current price of parts and labor in effect at the time of repair. Such repairs are warranted for 90 days from the day of reshipment to the buyer. If the unit is delivered by mail, customers agree to insure the unit or assume the risk of loss or damage in transit. Under no circumstances will a unit be accepted without a return authorization number.

The warranty is in lieu of all other warranties expressed or implied, including without limitations, any other implied warranty or fitness or merchantability for any particular purpose, all of which are expressly disclaimed.

Proof of sale may be required in order to claim warranty. Customers outside Taiwan are responsible for shipping charges to and from Ascale. Cables are limited to a 30 day warranty and cable must be free from any markings, scratches, and neatly coiled.

The content of this manual has been carefully checked and is believed to be accurate. However, Ascale assumes no responsibility for any inaccuracies that may be contained in this manual. Ascale will NOT be liable for direct, indirect, incidental, special, or consequential damages resulting from any defect or omission in this manual, even if advised of the possibility of such damages. Also, the technical information contained herein regarding the ASCALE-2124 features and specifications is subject to change without further notice.