SP-1009D

1x9 Dual Link DVI Distribution Amplifier

User Manual

Made in Taiwan

Safety and Notice

The **SP-1009D 1x9 Dual Link DVI Distribution Amplifier** has been tested for conformance to safety regulations and requirements, and has been certified for international use. However, like all electronic equipments, the SP-1009D should be used with care. Please read and follow the safety instructions to protect yourself from possible injury and to minimize the risk of damage to the unit.

- Follow all instructions and warnings marked on this unit.

- Do not attempt to service this unit yourself, except where explained in this manual.

- Provide proper ventilation and air circulation and do not use near water.

- Keep objects that might damage the device and assure that the placement of this unit is on a stable surface.

- Use only the power adapter and power cords and connection cables designed for this unit.

- Do not use liquid or aerosol cleaners to clean this unit. Always unplug the power to the device before cleaning.

The **SP-1009D 1x9 Dual Link DVI Distribution Amplifier** provides the most cost effective and advanced dual link DVI splitter solution on the market, by which the super high definition graphics can be transmitted to 9 different locations without losing quality. SP-1009D is also good to be used as a typical single link 9 port DVI splitter. SP-1009D is suitable for high quality PC broadcasting, digital signage and education applications!

Features

- DVI 1.1 compliant
- Wide Frequency Range: up to 300MHz
- EDID learning using DIP switch
- RS-232 firmware update for expanding compatibility
- RS-232 EDID update
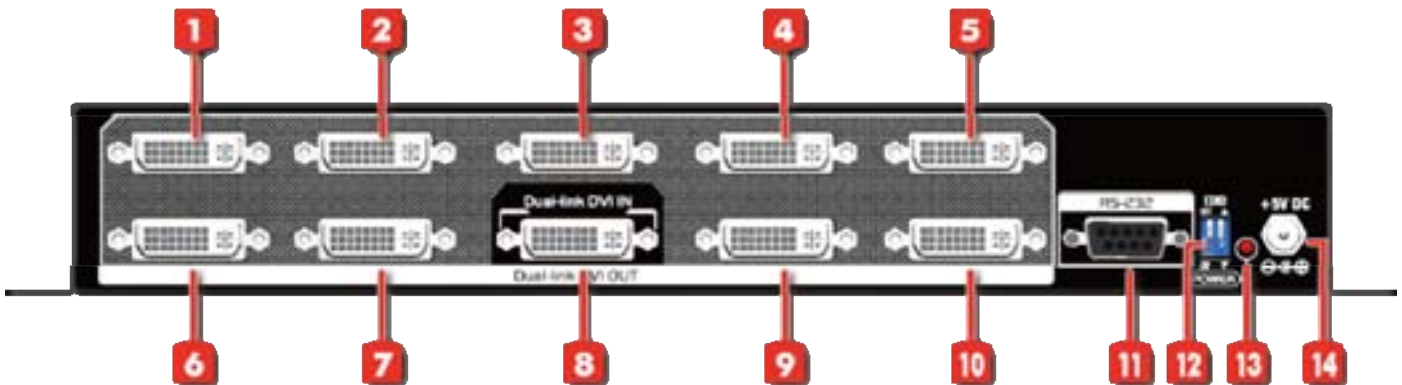- Wall-mount housing design for easy installation

> 1. *SP-1009D does not support HDCP.*
> 2. *In order to correctly display dual link DVI, users must pay attention to the content of EDID! There exist some dual link enable graphics cards which may not be able to send dual link DVI signals due to inappropriate EDID.*

Specifications & Package Contents

Model Name		SP-1009D
Technical		
Role of usage		1x9 dual link DVI distribution amplifier (Splitter)
DVI compliance		DVI 1.1
HDCP compliance		No
Video bandwidth		300 MHz
Audio support		NO
ESD protection		[1] Human body model — ±19kV [air-gap discharge] & ±12kV [contact discharge] [2] Core chipset — ±2kV
PCB stack-up		4-layer board [impedance control — differential 100Ω; single 50Ω]
Firmware update		Feasible via USB-port
CEC Channel		N/A
Input TMDS signal		1.2 Volts [peak-to-peak]
Input DDC signal		5 Volts [peak-to-peak, TTL]
Input		1x DVI
Output		9x DVI
DVI connector		DVI-I [29-pin female digital only]
RS232 connector		Mini Din 9
Mechanical		**SP-1009D**
Housing		Metal enclosure
Dimensions (L x W x H)	Model	291 x 97.5 x 42.8mm [8″ x 3.6″ x 1.1″]
	Package	496 x 198 x93mm [1'7" x 7.7" x 3.6"]
	Carton	510 x 380 x 252mm [1'8" x 1'3" x 1']
Weight	Model	986g [2.17 lbs]
	Package	1676g [3.69 lbs]
Fixedness		Wall-mounting case with screws
Power supply		5V 4A DC
Power consumption		15 Watts [max]
Operation temperature		0~40°C [32~104°F]
Storage temperature		-20~60°C [-4~140°F]
Relative humidity		20~90% RH [no condensation]
Package Contents		1x SP-1009D 1x DC 5V 4A in-line with C7 power cord 1x User Manual

Rear Panel

1. **Dual link DVI OUT**: distributed DVI output 1
2. **Dual link DVI OUT**: distributed DVI output 2
3. **Dual link DVI OUT**: distributed DVI output 3
4. **Dual link DVI OUT**: distributed DVI output 4
5. **Dual link DVI OUT**: distributed DVI output 5
6. **Dual link DVI OUT**: distributed DVI output 6
7. **Dual link DVI OUT**: distributed DVI output 7
8. **Dual link DVI IN**: DVI input source
9. **Dual link DVI OUT**: distributed DVI output 9
10. **Dual link DVI OUT**: distributed DVI output 10
11. **RS232 IN**: for firmware update and control use
12. **DIP Switch**: For EDID learning
13. **Power Signal LED**
14. **+5V DC**: connect to 5V 4A interlocking power supply unit

DIP Switch

Pin OFF (⬆):   Pin ON (⬇):

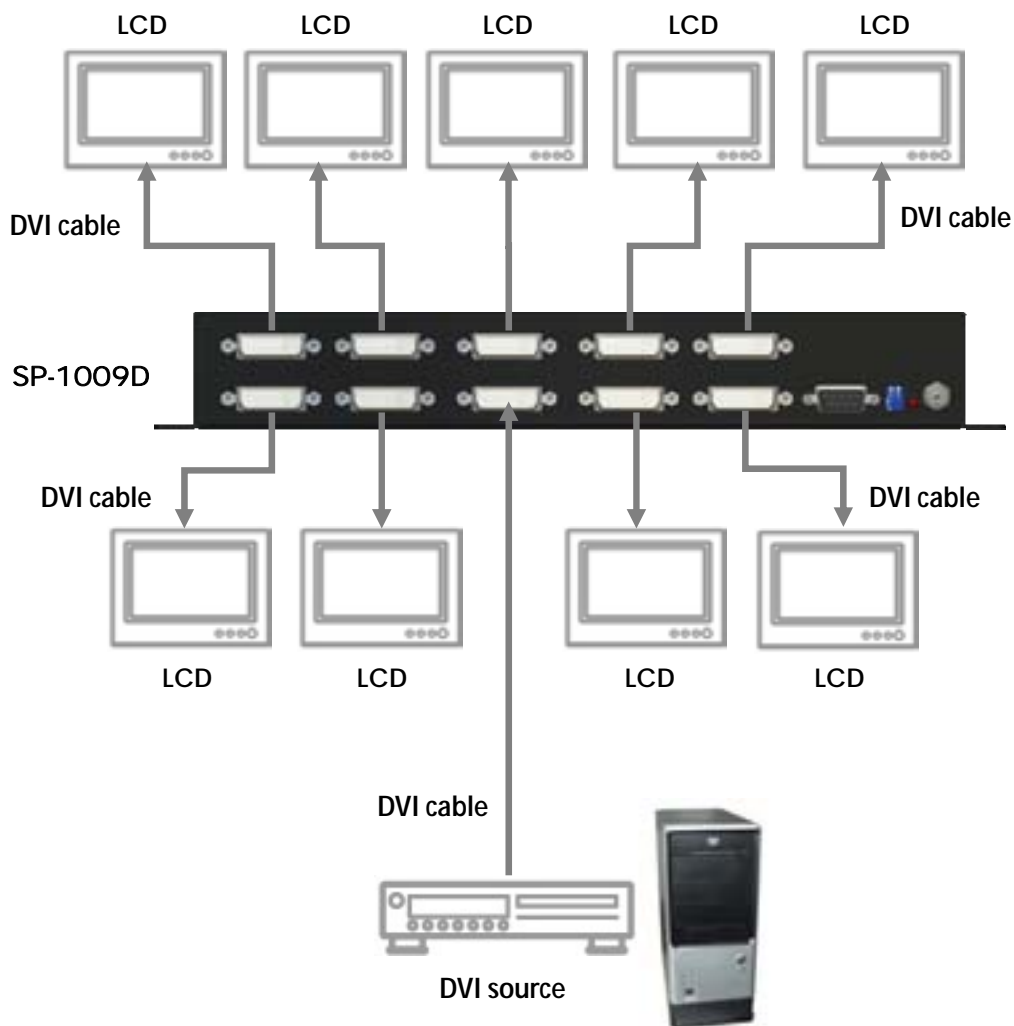| Pin #1	Pin #2	EDID feature
OFF (⬆)	OFF (⬆)	Default - Dual Link Mode
OFF (⬆)	ON (⬇)	Default - Single Link Mode
ON (⬇)	ON (⬇)	EDID Learning Mode
ON (⬇)	OFF (⬆)	Reserved Mode

ℹ️ *Only DVI output 9 can be used to learn EDID.*

1. Connect the output display to DVI output9
2. Adjust the DIP switch to EDID Learning Mode [ON,ON] (⬇,⬇)
3. Plug out and then plug in the power adapter
4. The power indication LED will start flicking
5. After the EDID Learning is done, LED will stop flicking

Broadcasts DVI signal to 9 DVI displays!

1. Switch off all devices, including monitors.

2. Connect to the receivers.

3. Connect a DVI source to the DVI In.

4. Plug in 5V DC power supply unit.

5. Power on the DVI monitors.

6. Power on the DVI source.

Limited Warranty

The SELLER warrants the **SP-1009D 1x9 Dual Link DVI Distribution Amplifier** to be free from defects in the material and workmanship for 1 year from the date of purchase from the SELLER or an authorized dealer. Should this product fail to be in good working order within 1 year warranty period, The SELLER, 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. This warranty is offered by the SELLER for its BUYER with direct transaction only. This warranty is void if the warranty seal on the metal housing is broken.

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 the SELLER. Cables and power adapters are limited to a 30 day warranty and 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, The SELLER assumes no responsibility for any inaccuracies that may be contained in this manual. The SELLER 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 **SP-1009D** features and specifications is subject to change without further notice.