# SW-5004DE

HDMI 4x1 Seamless Switcher with Quad-view support

User Manual

rev: 200713
Made in Taiwan

## INTRODUCTION

The **SW-5004DE HDMI 4x1 Seamless Switcher with Quad-view support** provides the most flexible and cost effective solution in the market to route high definition video source from one of the four HDMI sources to the remote display in real time. This solution can be utilized in digital signage, conference room presentation systems or other similar applications. In addition,

With 1080p output resolution, users can display the resulted mixed video with improved presentation quality. In the meantime, the unit can be controlled thru the IR remote control, front panel button or software control to provide the most flexible control way to fit into any applications.

## FEATURES

- 4x HDMI inputs and 1x HDMI output
- Input resolution support from 640x480 to 1920x1200, interlaced or progressive
- Output resolution supports up to 1920x1080
- Supports seamless switching
- Supports HDCP 1.4
- Firmware upgradable for support of new features and technology enhancements
- Supports IR remote control
- The output display is forced to ⊞ layout
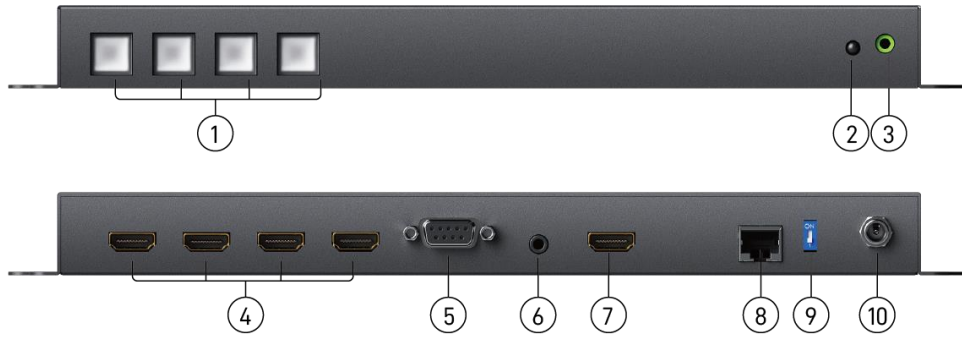- This switcher can control by RS-232, push button and IR remote control

## PACKAGE CONTENTS

- 1x SW-5004DE
- 1x DC 12V 5A
- 1x Installation software CD
- 1x User Manual
- 1x IR Remote control (15 keys)
- 1x IR Receiving cable

## SPECIFICATIONS

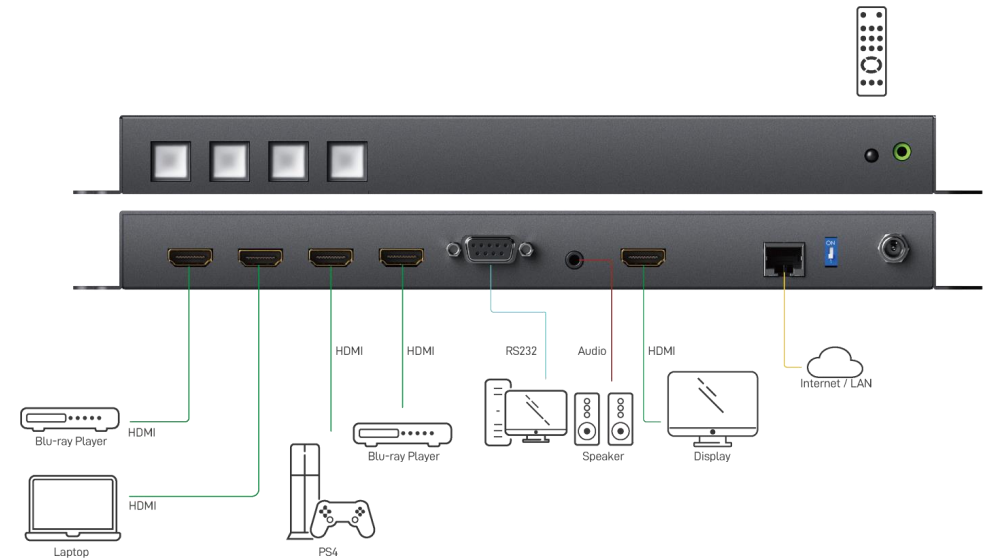| Model Name | | SW-5004DE |
|---|---|---|
| **Technical** | | |
| Role of usage | | Seamless Switcher |
| HDCP compliance | | HDCP 1.4 |
| Video bandwidth | | 6.75Gbps |
| Input Video Support | | Up to 1920x1200@60 |
| Output Video Support | | 720p60, 1080i60, 1080p60 |
| Audio support | | Bypass |
| Control | | Software / Front Panel / IR Remote Control |
| Input TMDS signal | | 1.2 Volts [peak to peak] |
| ESD protection | | Human body model — ±15kV [air-gap discharge] & ±8kV [contact discharge] |
| Input | | 4x HDMI + 1x RS-232 + 1x Ethernet |
| Output | | 1x HDMI + 1x 3.5mm(Stereo) |
| HDMI connector | | Type A [19-pin female] |
| RJ-45 connector | | WE/SS 8P8C with 2 LED indicator |
| RS-232 connector | | DE-9 [9-pin D-sub female] |
| **Mechanical** | | |
| Housing | | Metal enclosure |
| Dimensions [L x W x H] | Model | 312 x 143 x 27mm [1' x 5.6" x 1"] |
| | Package | 376 x 240 x 112mm [1'2" x 9.4" x 4.4"] |
| | Carton | 590 x 510 x 405mm [1'9" x 1'7" x 1'3"] |
| Weight | Model | 808g [4.6oz] |
| | Package | 1385g [3lbs] |
| Power supply | | 12V 5A DC |
| Power consumption | | 10 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] |

## PANEL DESCRIPTIONS



1. **Input Selection Button:** Input 1~4 source selection (from the left to the right is input 1, input 2, input 3, and input 4). If you press the input 1 button about 5 seconds, the output layout will change to Quad-view mode ( ⊞ ).

2. **IR SENSOR:** IR sensor for receiving the IR commands from IR remote

3. **IR Receiver:** 3.5mm socket for plugging in the extension cable of IR receiver

4. **Input 1-4:** HDMI inputs (from the left to the right is input 4, input 3, input 2, input 1)

5. **RS-232:** RS-232 control port

6. **Stereo Audio Out:** Connect to analog stereo audio speaker

7. **Output:** HDMI output

8. **Ethernet:** Ethernet control port

9. **Factory Reset:** Switch the pin to do factory default reset
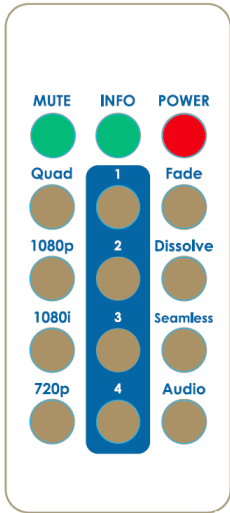
10. **+12V DC:** 12V DC power jack

> ⚠ For Quad-view mode, Upper left is Input 1; Rright upper is Input 2; Lower left is Input 3; Right lower is Input 4.

## CONNECTION DIAGRAM

## OPERATION APPROACH

**Method A: IR Remote Control**

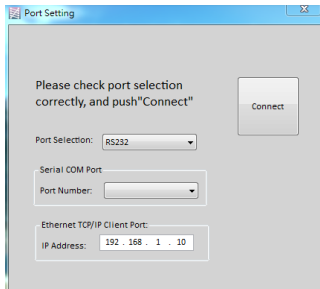| Button | Function |
|---|---|
| POWER | Power on/off the device |
| INFO | Display input/output/audio information of device |
| MUTE | Turn off output's video and audio |
| Fade | Fade switching effect |
| Dissolve | Dissolve switching effect |
| Seamless | Seamless switching effect |
| Audio | Select audio channel |
| Quad | Change the output layout to ⊞ |
| 1080p | Select 1080p@60 output resolution |
| 1080i | Select 1080i@60 output resolution |
| 720p | Select 720p@60 output resolution |
| Input 1 | Select HDMI input 1 to be the input source |
| Input 2 | Select HDMI input 2 to be the input source |
| Input 3 | Select HDMI input 3 to be the input source |
| Input 4 | Select HDMI input 4 to be the input source |

**Method B: Software Control through RS-232 port**

**1. System Requirement**

(1) OS information : MS Win XP/7/8/10
(2) Baud rates: 115200
(3) Software size: 7MB
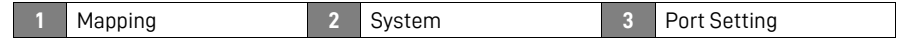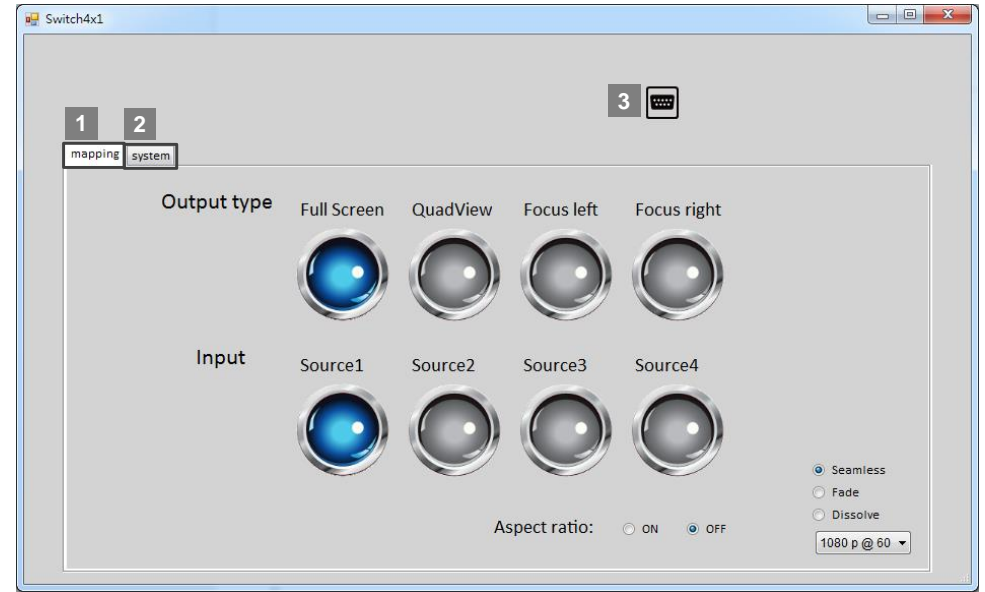(4) Minimum RAM requirement: 256MB

**2. Control interface**

When clicking on the software control program, the following dialog will pop-up (under Microsoft Windows 7, please run as administrator).

➢ RS-232 serial Mode: Use RS-232 to connect the port on device and computer. Select correct COM port and click the Connect button.

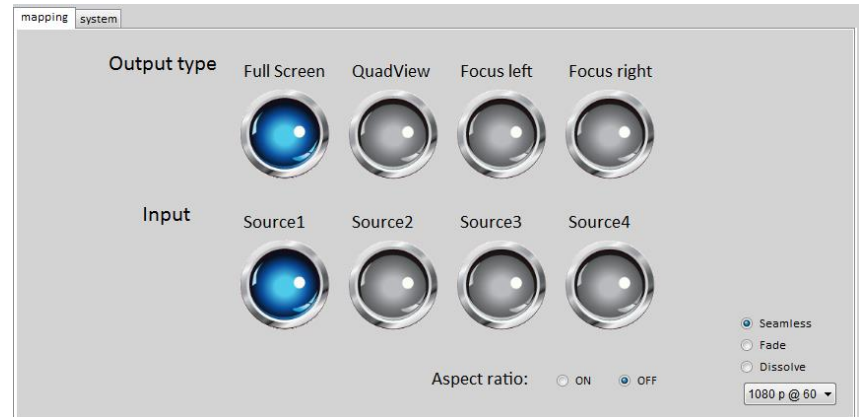➢ Ethernet Mode: Enter the IP address of the device and click the Connect button.

After the software control setting is accomplished, it will enter directly to the control interface.
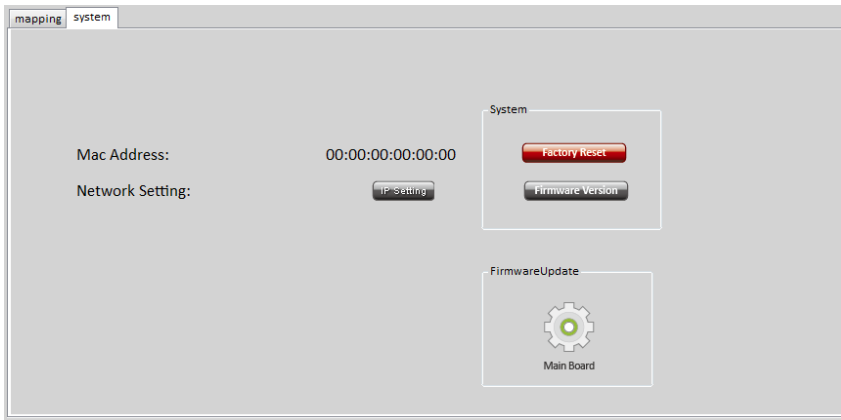
| 1 | Mapping | 2 | System | 3 | Port Setting |
|---|---|---|---|---|---|

**(1) Mapping**

You can assign arbitrary video source and output type here. We provides three switching effects for user select and you also can set the output resolution. When clicking output type (quad-view, focus left, focus right) button, it will change the window sequence. Aspect ratio function can decide aspect ratio of output (ON: original proportion, OFF: 16:9).
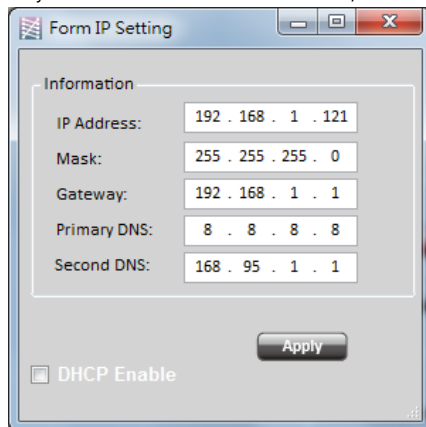
(2) System



➢ MAC Address
  Display the device's MAC address information

➢ Network Setting
  User can use the Ethernet to control the switcher. Firstly, user should click on the "IP Setting" button to setup network set. Next, users can setup the Ethernet for the unit as below example shows. After the step of IP setting, please click the "Apply" button.
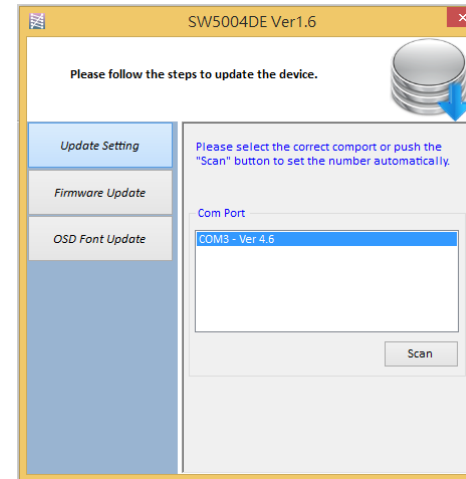
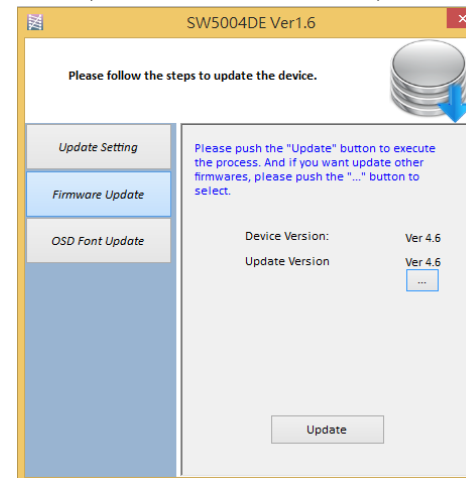  *If you click the DHCP Enable button, it will automatically get the IP address.



➢ Factory Reset
  • Click Factory Reset button to do factory default reset.
  • The process of default reset will take about 25 seconds.
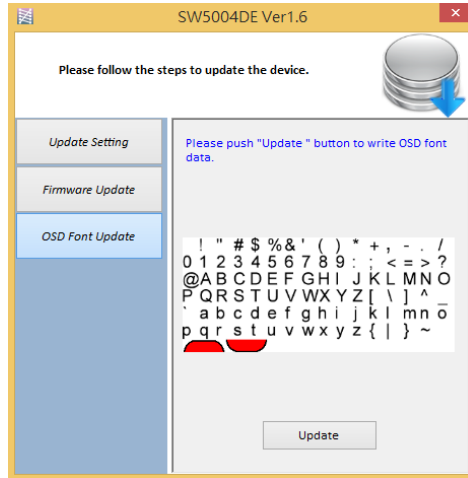
➢ Firmware Version
  Get the firmware version information.

➢ Firmware Update
  Firmware update device
  • Please select the correct COM port or click "Scan" button to connect device.



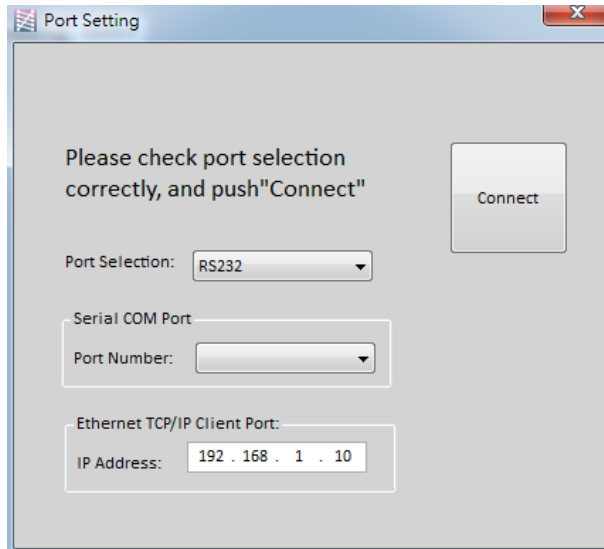  • Click "update" button to do firmware update.

- If you want to change OSD font, please click "OSD Font Update" and "update" button to change it.



(3) Port Setting

The function can reconnect this device. You can click  button to update the control connection. A "Port Setting" window will pop up for you to select the approach to connect this device.



## WARRANTY

The SELLER warrants the **SW-5004DE HDMI 4x1 Seamless Switcher with Quad-view support** 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 surge. 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 SW-5004DE features and specifications is subject to change without further notice.**