

SP-5002PU

*1x2 HDMI 4K2K Splitter with Built-in
& User Adjustable EDID Management*

User Manual



Safety and Notice

The **SP-5002PU 1x2 HDMI 4K2K Splitter with Built-in & User Adjustable EDID Management** has been tested for conformance to safety regulations and requirements, and has been certified for international use. However, like all electronic equipments, the **SP-5002PU** 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.



TABLE OF CONTENTS

INTRODUCTION	1
FEATURES	1
PACKAGE CONTENTS	1
SPECIFICATIONS	2
PANEL DESCRIPTIONS	3
HARDWARE INSTALLATION	4
CONNECTION DIAGRAM	4
NOTICE	5
WARRANTY	6



rev: 160127
Made in Taiwan

INTRODUCTION

The **SP-5002PU 1x2 HDMI 4K2K Splitter with Built-in & User Adjustable EDID Management** provides the most cost effective and advanced HDMI splitter solution on the market, by which the high definition video and high quality audio can be transmitted to 2 different locations without losing quality. **SP-5002PU** supports all 3D formats and the true 4K2K video!

With built-in RS-232 firmware update mechanism, the compatibility among countless HDMI sources and receivers can be further guaranteed. With the upmost 36 bit deep color video and high definition audio support, SP-5002PU is suitable for high quality HDMI broadcasting, digital signage and education applications!

FEATURES

- Supports HDMI Deep Color & 3D / DVI 1.0 compliant
- HDCP 1.3 compliant
- Wide frequency range: 25MHz~340MHz
- Video bandwidth: 10.2Gbps
- Resolution up to 4K2K @30
- Supports default EDID and has ability to learn the EDID of displays
- Supports xvYCC, x.v.Color & Deep Color
- Mini-USB firmware update for expanding compatibility
- Supports Dolby Digital, DTS-HD and Dolby TrueHD audio
- Easy installation

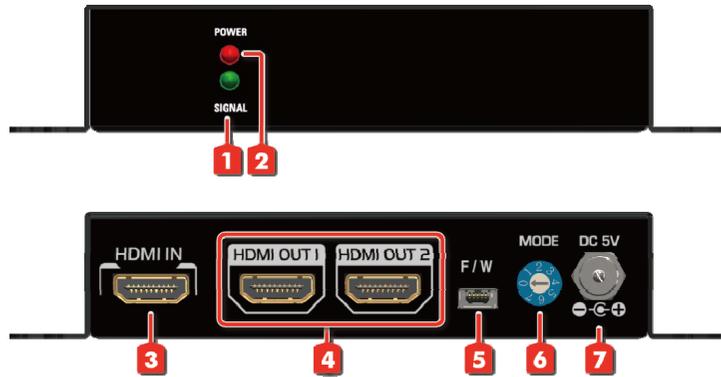
PACKAGE CONTENTS

- 1x SP-5002PU
- 1x DC 5V2A wall wart
- 1x User Manual

SPECIFICATIONS

Model Name	SP-5002PU	
Technical		
Role of usage	1x2 Distribution Amplifier (Splitter)	
HDMI compliance	HDMI Deep Color, full 3D & 4K2K	
DVI compliance	DVI 1.0	
HDCP compliance	HDCP 1.3	
Video bandwidth	Single-link 340MHz [10.2Gbps]	
Video support	Up to 4K2K @30	
Audio support	DTS-HD Master Audio, Dolby TrueHD Dolby Digital, DTS, DVD-Audio, LPCM, SACD, MPCM	
ESD protection	[1] Human body model — ±19kV [air-gap discharge] & ±12kV [contact discharge] [2] Core chipset — ±2kV	
Firmware update	Feasible via Mini-USB port	
ARC	N/A	
HDMI 1.4 Ethernet	N/A	
Input	1x HDMI [7.1ch audio & video]	
Output	2x HDMI [7.1ch audio & video]	
HDMI connector	Type A [19-pin female]	
Rotary control switch	EDID Mode selection	
Mechanical		
Housing	Metal enclosure	
Dimensions [L x W x H]	Model	113 x 62.5 x 25mm [4.4" x 2.5" x 1"]
	Package	198 x 137x 74mm [7.8" x 5.39" x 2.91"]
	Carton	420 x 400 x 300mm [16.53" x 15.75" x 11.81"]
Weight	Model	463g [16.3 oz]
	Package	946g [1.0 lbs]
Fixedness	Wall-mounting case	
Power supply	5V 2A 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. **Signal LED:** Signal LED indicator
2. **Power LED:** Lights on when device is ready
3. **HDMI IN:** Connect to a HDMI input source
4. **HDMI OUT1-2:** HDMI outputs to HDMI displays
[HDMI OUT1: EDID Learn Default]
5. **Mini-USB:** For technical support only [firmware update]
6. **MODE:** 0 - F/W update mode
 - 1 - EDID Full-HD(1080p@60) - 24bit 2D video & 7.1ch audio
 - 2 - EDID Full-HD(1080p@60) - 24bit 2D video & 2ch audio
 - 3 - EDID Ultra-HD(4K2K@30) - 24bit 2D video & 7.1ch audio
 - 4 - EDID Ultra-HD(4K2K@30) - 24bit 2D video & 2ch audio
 - 5 - EDID HD(1080p@30)(1080i@60)(720p@60) - 24bit 2D video & 2ch audio
 - 6 - Auto EDID analysis learning mode
 - 7 - EDID learning mode
[Please use HDMI OUT 1port for learning EDID from display]
7. **+5V DC:** Connect to the +5V DC 2A power supply unit



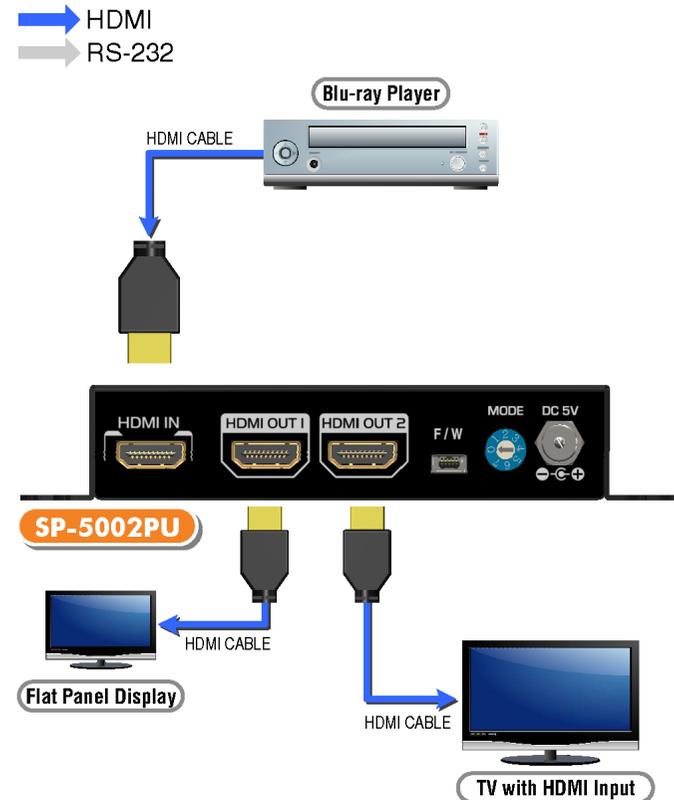
1. Automatic EDID learning will detect all the connected HDMI equipped monitors and analyze all the content of EDID. The EDID with minimal resolution support will be the reference EDID for incoming HDMI source players.

HARDWARE INSTALLATION

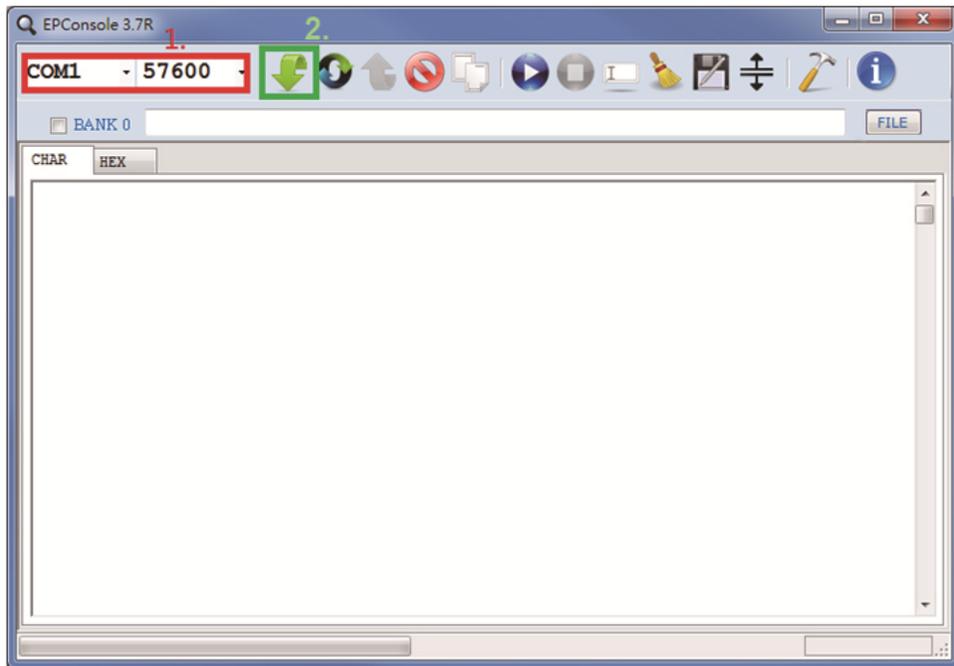
Broadcasts HDMI signal to 2 HDMI displays!

1. Switch off all devices, including monitors.
2. Connect to the displays.
3. Connect an HDMI source (such as a Blu-ray Disc player) to the HDMI In.
4. Plug in 5V DC power supply.
5. Power on the HDMI monitors.
6. Power on the HDMI source.

CONNECTION DIAGRAM



1. While connecting a new monitor to the splitter under mode6 (auto EDID) & mode7 (EDID learning), experiencing a short period of time without display might be expected. The splitter will do Automatic EDID learning which analyzes the newly connected monitor to see if the EDID for the HDMI input is necessary to update!
2. For firmware update through Mini-USB, users MUST turn the power off, set the dip switch to "ON", and then connect an Mini-USB cable between PC and device. Open the firmware update software, [1] set the correct com port and baud rate (57600 is recommended), [2] click the "File" button to direct to the firmware HEX or BIN file, power on the device and press "Program MCU" symbol to firmware update. Once update process is done, please power off the device and set the dip switch back to "1".



The SELLER warrants the **SP-5002PU 1x2 HDMI 4K2K Splitter with Built-in & User Adjustable EDID Management** 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 SP-5002PU features and specifications is subject to change without further notice.**