PTN

USER MANUAL

SHD8

PTN HDMI Splitter 1x8

Version: SHD82013V1.1

NOTICE: Please read this user manual carefully before using this product.

Update History

Version	Date	Update Content
1.0	2010.09.01	First version.
1.1	2013.05.27	Modified the system diagram.

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1. Introduction

1.1. Introduction to SHD8

SHD8 is equipped with high-quality 1 input, 8 outputs distribution chip, perfect matching with outside devices and anti-static function enable the advantages over others in distributing HDMI signal.

It is a HDMI 1 x 8 splitter with HDMI 1.4a connectors, HDCP compliant, HDTV compatible, up to 1920*1200@60Hz, 1080p, 2k.

It has a good application in various occasions, such as multi-media meeting room, television education, room controlling, monitoring center, government agency, exhibition hall and other fields.

1.2. Package Contents

- ➢ 1 x SHD8
- ➢ 2 x Mounting Ears (Separated from SHD8)
- ➢ 4 x Screws
- ➢ 1 x Power Adapter (DC 5V)
- ➢ 1 x User Manual

Notes：Please confirm if the product and the accessories are all included, if not, please contact with the dealers.

2. Features

- Bandwidth: 10.2Gbit/s.
- HDCP Compliant.
- HDMI 1.4a, support 3D.
- Supports Extended Display Identification Data (EDID) and Display Data Channel (DDC).
- HDTV compatible with High Definition Transmission resolution up to 1920*1200@60Hz (max), support 1080P.
- Antistatic case design to providing good performance protection.
- Built-in gain compensation and synchronous signal proofread technology.

3. Specification

Video Input		Video Output	
Input	1 HDMI	Output	8 HDMI
Input Connector	HDMI 1.4a	Output Connector	HDMI 1.4a
Input Level	T.M.D.S. 2.9V/3.3V	Output Level	T.M.D.S. 2.9V/3.3V
Input Impedance	50Ω	Output Impedance	50Ω
Video General			
Gain	0 dB	Bandwidth	6.75 Gbit/s
Video Signal	HDMI (or DVI-D)	Maximum Pixel Clock	165MHz
Resolution Range	Up to 1920 x 1200 or 1080P@60Hz	Switching Speed	200ns (Max.)
Consumer Electronics Control (CEC)	Supports CEC wired infrared data pass-through using the HDMI 1.4a standard		
EDID and DDC Management	Supports Extended Display Identification Data (EDID) and Display Data Channel (DDC) data using DVI and HDMI standards, EDID and DDC signals are actively bufferred.		
HDCP Management	Compliant with High-bandwidth Digital Content Protection (HDCP) using DVI and HDMI 1.4a standards.		
General			
Power Supply	DC 5V adapter	Power Consumption	10W
Temperature	-20 ~ +70℃	Humidity	10% ~ 90%
Case Dimension	W310x H30 x D100 mm	Product Weight	0.7Kg

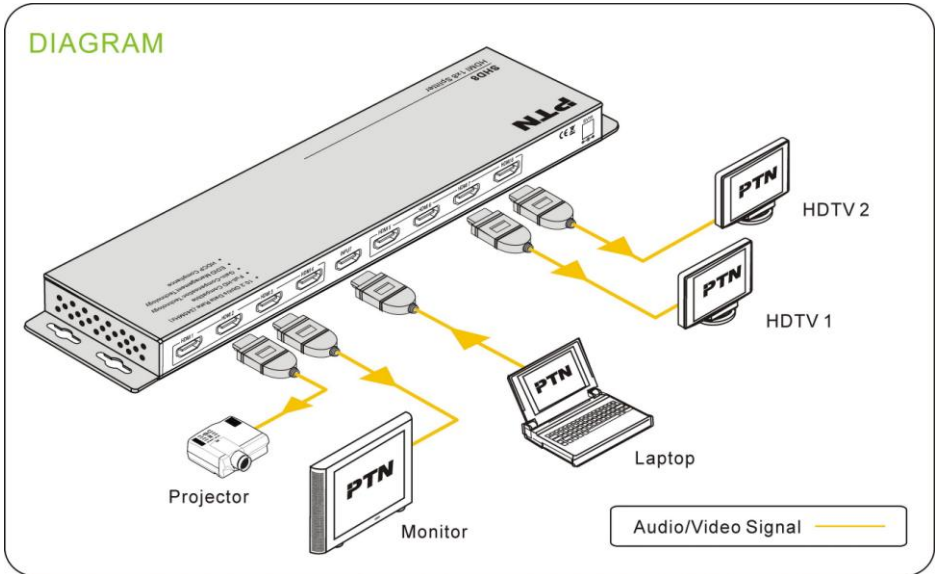# 4. Interfaces Introduction

The interfaces of SHD8 are showed in the following pictures.

It has 1 HDMI input port and 8 HDMI output ports.

Output port, No.1~4   Inout port   Output port,No.5~8   DC5V power port

5. System Diagram

6. Troubleshooting & Maintenance

1) When there is no output images:

   ● Check if there is any signal at the input.

   ● Check if there is any signal at the output.

   We can check these by using an oscilloscope or a multimeter. If there is no signal input/output, maybe the input/output cables broken or the connectors loosen, please change for another cable.

   ● Check if the output port number is the same with the controlled one.

   ● If not the problem mentioned above, probably there is something broken inside the unit, please send it to the dealer for repairing.

2) If the **POWER** indicator doesn't work or no respond to any operation, please make sure the power cord connection is good.

3) If the output image or sound is interfered, please make sure the system is grounded well.

4) If the static becomes stronger when connecting the HDMI cables, it probably due to the incorrect grounding, please correct it otherwise it would damage the splitter.

7. Safety Operation Guide

In order to guarantee the reliable operation of the equipments and safety of the staff, please abide by the following proceeding in installation, using and maintenance:

1) The system must be earthed properly. Please do not use two blades plugs and ensure the alternating power supply ranged from 100v to 240v and from 50Hz to 60Hz.

2) Do not put the splitter in a place of too hot or too cold.

3) As the power generating heat when running, the working environment should be maintained fine ventilation, in case of damage caused by overheat.

4) Cut off the general power switch in humid weather or left unused for long time.

5) Before following operation, ensure that the alternating current wire is pull out of the power supply:

   - Take off or reship any components of the equipment.
   - Take off or rejoin any pin or other link of the equipment.

6) As to non-professional or without permission, please DO NOT try to open the casing of the equipment, DO NOT repair it on your own, in case of accident or increasing the damage of the equipment.

7) DO NOT splash any chemistry substance or liquid in the equipment or around.

8. After-sales Service

1) We offer products for all three-year warranty, which starts from the first day you buy this product (The purchase invoice shall prevail).

2) If it needs to be repaired while it is beyond the warranty or does not work normally during the warranty, please send it to our professionals for repairing.

3) If there appear some problems when running SHD8, please check and deal with the problems reference to this user manual. Any transport costs are borne by the users during the warranty.

4) You can email to our after-sales department or make a call, please tell us the following information about your cases.

- Product version and name.
- Detailed failure situations.
- The formation of the cases.

5) Any problem is same with one of the following cases listed, we will not offer warranty service but offer for charge.

- Beyond the warranty.
- Damage due to incorrectly usage, keeping or repairing.
- Damage due to device assembly operations by the maintenance company non-assigned.
- No certificate or invoice as the proof of warranty.
- The product model showed on the warranty card does not match with the model of the product for repairing or had been altered.
- Damage caused by force majeure.

6) This document is just a user manual released with the product, not a quality guarantee. Any corrections or new function introductions added, we will update this document without further notice.

Remarks: For any questions or problems, please try to get help from your local distributor, or email PTN at: support@PTN-electronics.com.