User Manual

4K 1x2 DisplayPort Splitter

Model PT-SP-DP12

Designed in Germany

PureTools

Preface

Read this user manual carefully before using this product. Pictures shown in this manual are for reference only. Different model layouts and specifications are subject to the physical product.

This manual is for operation instructions only, not for any maintenance usage.

In the constant effort to improve our product, we reserve the right to make changes in functions or parameters without prior notice or obligation.

Trademarks

Product model and logo are trademarks. Any other trademarks mentioned in this manual are acknowledged as the properties of the trademark owner. No part of this publication may be copied or reproduced without the prior written consent.

FCC Statement

This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. It has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a commercial installation.

Operation of this equipment in a residential area is likely to cause interference, in which case the user at their own expense will be required to take whatever measures may be necessary to correct the interference.

Any changes or modifications not expressly approved by the manufacture would void the user's authority to operate the equipment.

REACH | 1907/2006/EU

ROHS | 2011/65/EU

PureLink hereby declares that this product **PureTools PT-SP-DP12** complies with Directives 1907/2006/EU und 2011/65/EU.

EMC / LVD (Electro Magnetic Compatibility / Low Voltage Directive)

PureLink GmbH hereby declares that this product **PureTools PT-SP-DP12** complies with Directives 2014/30/EU and 2014/35/EU. The full text of the EU Declaration of Conformity is available at the following Internet address:

http://www.purelink.de/ce/4251364721469_CE.pdf

CE

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SAFETY PRECAUTIONS

To ensure the best from the product, please read all instructions carefully before using the device. Save this manual for further reference.

- Unpack the equipment carefully and save the original box and packing material for possible future shipment

- Follow basic safety precautions to reduce the risk of fire, electrical shock and injury to persons.

- Do not dismantle the housing or modify the module. It may result in electrical shock or burn.

- Using supplies or parts not meeting the products' specifications may cause damage, deterioration or malfunction.

- Refer all servicing to qualified service personnel.

- To prevent fire or shock hazard, do not expose the unit to rain, moisture or install this product near water.

- Do not put any heavy items on the extension cable in case of protrusion.

- Do not remove the housing of the device as opening or removing the housing may expose you to dangerous voltage or other hazards.

- Install the device in a place with sufficient ventilation to avoid damage caused by overheat.

- Keep the module away from liquids.

- Spillage into the housing may result in fire, electrical shock, or equipment damage. If an object or liquid falls or spills on to the housing, unplug the module immediately.

- Do not twist or pull by force ends of the optical cable. It can cause malfunction.

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

- Unplug the power cord when left unused for a long period of time.

- Information on disposal for scrapped devices: do not burn or mix with general household waste, please treat them as normal electrical wastes.

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Product Introduction

Thanks for choosing the 4K 1x2 DisplayPort Splitter, which can distribute one DP input to two outputs. The splitter supports DP video resolution up to 4K@60Hz 4:4:4 and multi-stream transport (MST) feature. Besides, SST mode is used for both connected displays show the same contents. It is ideal for PC/notebooks, docking stations, hub, 4K2K TVs, daisy chain monitors, digital signage.

Features

- Simultaneously displays one DisplayPort source to two displays.
- DisplayPort 1.2a, 21.6Gbps.
- HDCP 1.3 compliant.
- Supports resolutions up to 4K@60Hz, HBR2 link rate.
- Supports the multi-stream transport (MST) feature.
- SST mode is used for both connected displays show the same contents.
- Ideal for PC/notebooks, docking stations, hub, 4K2K TVs, daisy chain monitors, digital signage.

Packing List

- 1x 4K 1x2 DisplayPort Splitter
- 1x User Manual

- 1x Power Adapter (5V DC 1A)
- 2x Mounting Ears

Note: Please contact your distributor immediately if any damage or defect in the components is found.

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Panel Description

① **POWER LED:** The LED illuminates red when power is applied.

   DC 5V: DC barrel port to connect an AC power adapter.

② **INPUT:** DisplayPort input port to connect DP video source device.

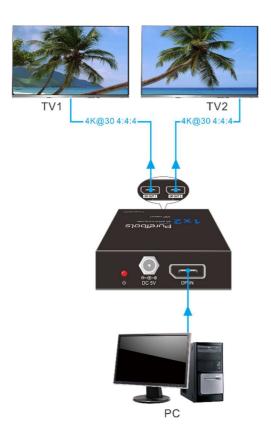③ **OUTPUTS:** Two DisplayPort output ports to connect DP video display devices.

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Technical Specification

Video Input	
Input	(1) DP IN
Input Connector	(1) DP port
DP Input Resolution	Up to 4K@60Hz 4:4:4
DP Standard	1.2a
HDCP Version	1.3
Video Output	
Output	(2) DP OUT
Output Connector	(2) DP port
DP Output Resolution	Up to 4K@60Hz 4:4:4
DP Standard	1.2a
HDCP Version	1.3
General	
MST Function	Support
SST Function	Support
Bandwidth	21.6 Gbps
Operation Temperature	-10℃ ~ +55℃
Storage Temperature	-25℃ ~ +70℃
Relative Humility	10%-90%
Power Supply	Input:100V~240V AC; Output: 5V DC 1A
Power Consumption	2W (Max)
Dimension (W*H*D)	71mm x 21mm x 61mm
Net Weight	115g

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System Connection

The following diagram illustrates the typical input and output connection of the splitter:
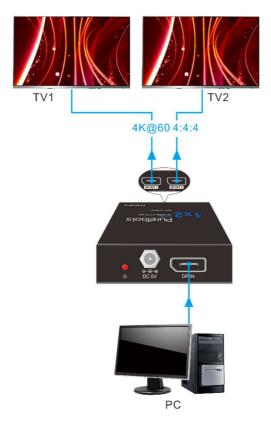
Under the MST mode

Note: Output resolution: 1.two output ports support 4K@30Hz (Max) simultaneously; 2.one output port supports 4K@60 Hz, another output port only supports 2K.

Under the MST mode, it does not support MAC Computer as input source device. When GPU as input source device, only one of output port supports audio.
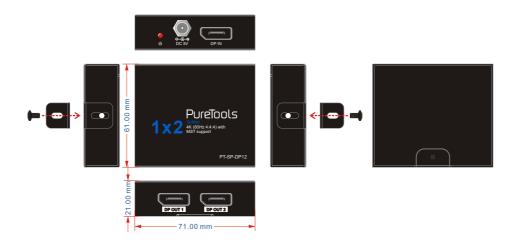
Under the SST mode

Note: Only under the SST mode, SPDIF (192K 7.1ch) audio can be used.

Under the SST mode, When GPU as input source device, only one of output port supports audio. When MAC Computer as input source device, both of output ports support audio.

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Panel Drawing

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After-Sales Service

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

1) **Product Limited Warranty:** The product will be free from defects in materials and workmanship for **two years** (The purchase invoice shall prevail).
   Proof of purchase in the form of a bill of sale or receipted invoice which is evidence that the unit is within the Warranty period must be presented to obtain warranty service.

2) **What the warranty does not cover (servicing available for a fee):**
   - Warranty expiration.
   - Factory applied serial number has been altered or removed from the product.
   - Damage, deterioration or malfunction caused by:
     - Normal wear and tear.
     - Use of supplies or parts not meeting our specifications.
     - No certificate or invoice as the proof of warranty.
     - The product model shown on the warranty card does not match with the model of the product for repairing or had been altered.
     - Damage caused by force majeure.
     - Servicing not authorized by distributor.
     - Any other causes which does not relate to a product defect.
   - Delivery, installation or labor charges for installation or setup of the product.

3) **Technical Support:** For any questions or problems, contact your distributor or reseller and tell them the respective product name and version, the detailed failure situation as well as the formation of the cases.

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Asking for Assistance

Technical Support:

Phone: +49 5971 800299 - 0

Fax: +49 5971 800299 – 99

Technical Support Hours:

8:30 AM to 5:00 PM Monday thru Thursday

8:30 AM to 4:00 PM Friday

Write to:

PureLink GmbH

Von-Liebig-Straße 10

D - 48432 Rheine

www.purelink.de

info@purelink.de