

DisplayPort 4K 1-3

Video Splitter



USER MANUAL



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Safety

- Use the power adapter packed in the product or other power adapters approved by Pixelhue Technology Ltd.
- The device should be located at a place free from humidity, high temperature, dust, corrosion and oxidizing gases to avoid damage.
- All components should be handled with care. Shock, knock, falling or collision should be avoided.
- Disconnect the power cord when the device is not used for a long time.
- Do not remove the device cover by yourself. Do not touch any components inside the device.

Change History

Version	Release Date	Description
V1.0.0.0	2020-07-20	First release

Website: www.pixelhue.com

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1 Overview

1.1 Positioning

The DisplayPort 4K 1-3 is a 4K video splitter with outstanding performance, excellent stability and high definition. The resolutions of both its inputs and outputs can be up to 4K×2K@60Hz, and downward compatibility is supported.

This splitter supports 1 × DP 1.2 input and 3 × DP 1.2 real-time outputs. The input and output resolutions are the same.

This splitter is easy to use and supports plug and play. It is applicable to any devices with DP connectors and supports various video processors, Blu-ray & HD DVD players.

1.2 Features

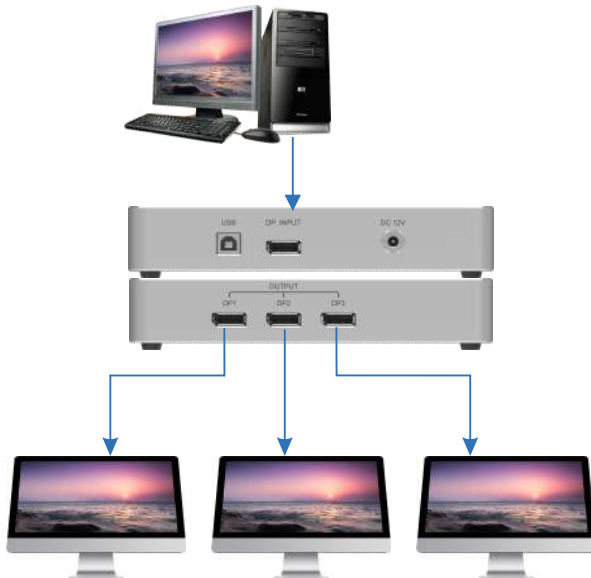
- Supports input and output resolutions up to 4K×2K@60Hz.
- Features the same timing of the input and output with up to Ultra HD 4K resolution.
- Supports up to 4:4:4 10-bit input.
- OLED display can display the input and output statuses in real time.
- Supports setting the EDID via three ways: standard, custom and EDID learning.
- Supports HDCP.
- Supports plug and play of both input and output, with no drivers required.
- Adopts metal heatsink design.
- Supports program update using a USB drive.
- Supports various certifications, such as RoHS.

2 Appearance



Input	Description
DP 1.2	DP 1.2 video source input
Button	Description
OLED display	Display the current status of the device and the menu items.
Enter	Enter the menu and confirm the operation.
Back	Exit the current operation.
▲	Move the cursor up.
▼	Move the cursor down.
Output	Description
DP 1-3	DP 1.2 video source output
Control	Description
USB	Connect to the control computer for program upgrade.

3 Applications

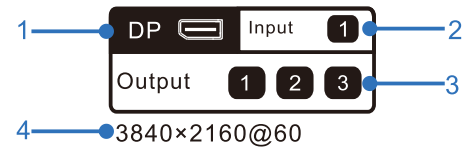


4 Operations

4.1 Button Descriptions

- Enter: Enter the menu and confirm the operation.
- Back: Exit the current operation.
- ▲ : Move the cursor up.
- ▼ : Move the cursor down.

4.2 Home Screen



No.	Description
1	Show the device type and connector style.
2	Indicate the status of the input connector.
3	■ Indicate the statuses of the three output connectors. ■ 1 / 2 / 3 indicate the current connected output connector.
4	Display the input resolution.

4.3 Operations

You can change the input source resolutions using the DisplayPort 4K 1-3 video splitter. Select **Standard Res** or **Custom Res** to change the input resolution. When you have completed all the settings, move the cursor to **Apply** and press **Enter** to make the settings take effect; otherwise, the changes will not take effect.

Standard Resolution



The supported standard resolutions are 1024×768, 1280×720, 1280×1024, 1366×768, 1440×900, 1536×768, 1600×1200, 1920×1080, 1920×1200, 2048×1080, 2560×1080, 2560×1600, 3840×1080 and 3840×2160.

The supported refresh rates are 23.98 Hz, 24 Hz, 25 Hz, 29.97 Hz, 30 Hz, 47.95 Hz, 48 Hz, 50 Hz, 56 Hz, 59.94 Hz, 60 Hz, 72 Hz, 75 Hz and 85 Hz.

Custom Resolution

Press **▲** and **▼** to set a custom width (increasing by even numbers), custom height and custom refresh rate.



Advanced Settings

Advanced settings include **EDID Learning**, **Factory Reset**, **HW Ver** and **SW Ver**.



- EDID Learning: Automatically learn the resolution of the output device.
- Factory Reset: Reset the device to its factory settings.
- HW Ver: Check the version of the PCB board.
- SW Ver: Check the version of the software.

Language/语言

The supported languages are English and Chinese. You can change either language as required.



5 Specifications

5.1 Specifications

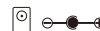
DP Input	Description
Quantity	1
Standard	DP 1.2 connector supports HDCP 1.3.
DP Output	Description
Quantity	3
Standard	DP 1.2 connector supports HDCP 1.3.
Control	Description
USB	Connect to the control computer for program upgrade.
Overall Specifications	Description
Power supply	DC 12 V
Power consumption	18 W
Operating temperature	0°C to +50°C
Storage temperature	-10°C to +60°C
Operating humidity	10% RH to 90% RH, non-condensing
Dimensions	200.0 mm × 132.8 mm × 38.9 mm
Material	Metal
Net weight	0.6 kg

Note:

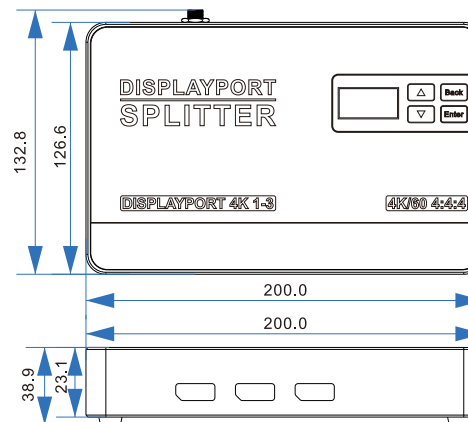
The data is tested by Pixelhue Technology Ltd lab. The test data may differ due to the influence of environment and cable material, and the actual working environment shall prevail. The specifications of Ethernet cable and video cable used by the lab test are as follows.

■ Video cable: 28AWG core

The positive and negative terminals of the power supply are as follows.



5.2 Dimensions



Unit: mm

5.3 Packing List



DisplayPort 4K 1-3



4-plug 12V 2A
power adapter



USB cable



User Manual



Customer
Letter

Exhibition



6 Troubleshooting

Q1: No image output

- Step 1** Check whether the cables are properly connected.
- Step 2** Check whether the connections of the input and output DP cables are loose.
- Step 3** Make sure the resolution of DP signal source is within the supported resolution range.
- Step 4** Disconnect and then reconnect the power cord of the DisplayPort 4K 1-3 video splitter.