

User Manual

HDTV SUH2E8K

WolfPack™ 8K 1x2 HDMI Splitter



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Version: HDTV SUH2E8K-V1.0

Statement

Thanks for purchasing this product, please read this user manual carefully before using this product. The functions described in this version are updated till Mar, 2021. In the constant effort to improve our product, we reserve the right to make functions or parameters changes without notice or obligation.

Safety Precaution

- Do not dismantle the housing or modify the module to avoid electrical shock or burn.
- Using supplies not meeting the products' specifications may cause damage, deterioration or malfunction.
- Do not expose the unit to rain, moisture or install this product near water.
- Install the device in a place with fine ventilation.
- 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 when not used for a long period of time.
- Refer all servicing to qualified service personnel.

After-sales Service

We provide limited warranty for the product within three years.

Packing List

- 1x HDMI V2.1 1x2 Splitter
- 4x Plastic Cushions
- 1x Power Adapter (12V DC 1A)
- 1x User Manual

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



Product Introduction

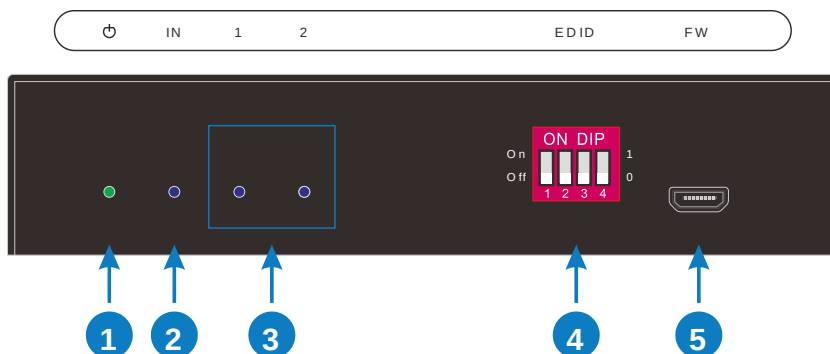
Thanks for choosing the 1x2 8K HDMI Splitter, which can distribute one HDMI input to two outputs. The splitter supports HDMI video resolution up to 8K@60Hz 4:2:0 10bit, HDR 10, HDR 10+, Dolby Vision, and multichannel audio formats. Besides passing EDID information from the display, there are multiple built-in EDID settings can be selected by the 4-pin DIP switch on the front panel. Moreover, the splitter supports convenient firmware upgrade through Micro-USB port.

Features

- HDMI V2.1, HDCP 2.3 compliant and 40Gbps.
- Supports up to 8K60Hz 4:2:0 10bit, 8K30Hz 4:4:4 10bit and 4K120Hz 10bit.
- ALLM (Auto Low-Latency Mode) which automatically adjust the television's settings to ensure fast-moving content isn't slowed down.
- VRR technology eliminates lag and tearing, deliver video frames at the fastest speed.
- Advanced EDID management: multiple preset and user defined allowed.
- Supports CEC pass-through.
- Provides LEDs to indicate the current operating status.
- Firmware upgrade by Micro-USB port.

Panel Description

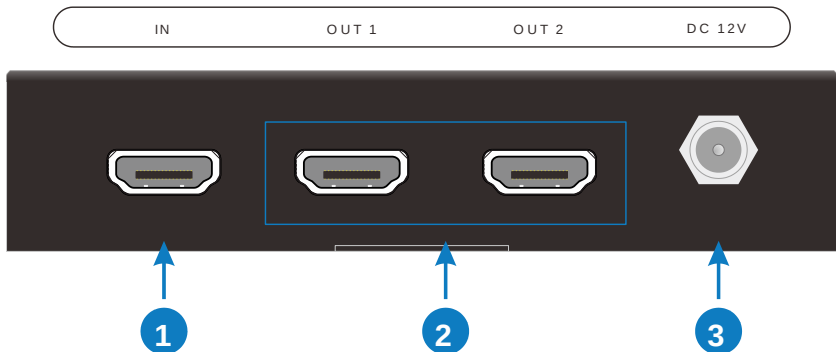
Front Panel



- ① **POWER LED:** The LED illuminates green when the unit is powered on.

- ② **INPUT LED:** The LED illuminates blue when there is HDMI input.
- ③ **OUTPUT LEDs:** The LED illuminates blue when there is HDMI output on the corresponding channel.
- ④ **EDID:** 4-pin DIP switch for EDID setting and HDCP mode selection. Please refer to the **EDID Management** for more details.
- ⑤ **FW:** Micro-USB port for firmware upgrade.

Rear Panel



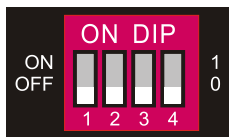
- ① **INPUT:** Type-A female HDMI input port to connect a HDMI source.
- ② **OUTPUTS:** Two type-A female HDMI output ports to connect HDMI displays.
- ③ **DC 12V:** DC barrel port to connect an AC power adapter.

DIP Switch Operation

EDID Management

The Extended Display Identification Data (EDID) is used by the source device to match its video resolution with the connected display. By default, the source device obtains its EDID from the first connected display. Meanwhile, since the displays with different capabilities are connected to the splitter, the DIP switch on the front panel can be used to set the EDID to a fixed value to ensure the compatibility in video resolution.

The switch represents “0” when in the lower (**OFF**) position, and it represents “1” while putting the switch in the upper (**ON**) position.



Switch Status	Video Resolution	Audio Format
0000	Obtains EDID from the first detected display starting at HDMI output 1>2.	
0001	1920x1080@60 8bit	Stereo
0010	1920x1080@60 8bit	High Definition Audio
0011	3840x2160@30Hz 8bit	Stereo
0100	3840x2160@30Hz Deep Color	High Definition Audio
0101	3840x2160@60Hz 4:2:0 Deep Color	High Definition Audio
0110	3840x2160@60Hz Deep Color	Stereo
0111	3840x2160@60Hz Deep Color	High Definition Audio
1000	3840x2160@60Hz Deep Color HDR	LPCM 6CH
1001	3840x2160@120Hz Deep Color	Stereo
1010	3840x2160@120Hz Deep Color	High Definition Audio
1011	8K@30Hz Deep Color	Stereo
1100	8K@30Hz Deep Color	High Definition Audio
1101	8K@60Hz 4:2:0 Deep Color	Stereo
1110	8K@60Hz 4:2:0 Deep Color	High Definition Audio
1111	User Defined EDID	

User Defined EDID Setting

Except directly invoking the embedded EDID, the specific EDID can be customized.

There are five EDID can be customized following the below operations.

- 1) Rename the user defined EDID according the following format.

EC_xx_xxxx_xxx.bin

- EC: Represents EDID.
- xx: Represents EDID ID. It is 15.
- xxxx: Represents the video parameter.
- xxx: Represents the audio format.

Example: EC_15_1080P_LPCM.bin

- 2) Connect the splitter to the PC with USB cable and then power on the splitter to the PC with USB cable. The PC will automatically detect a U-disk named of "BOOTDISK".
- 3) Double-click the U-disk, a file named of "READY.TXT" would be showed.
- 4) Copy the user defined EDID (such as **EC_15_1080P_LPCM.bin**) to the "BOOTDISK" U-disk.
- 5) Reopen the U-disk to check the filename "READY.TXT" whether automatically becomes "SUCCESS.TXT", if yes, the user defined EDID was imported into the splitter and saved as its corresponding EDID ID successfully.
- 6) Repeat the above third to fifth step to copy other user defined EDIDs to the "BOOTDISK" U-disk.
- 7) Remove the USB cable, connect the adaptor to power on the splitter.

The new EDID also can be invoked via the 4-pin DIP switch directly.

Firmware Upgrade

Please follow the below steps to upgrade firmware by the Micro-USB port:

- 1) Connect the splitter to the PC with USB cable.
- 2) Power on the splitter, and then the PC will automatically detect a U-disk named of "BOOTDISK".
- 3) Double-click to open the U-disk, a file named of "READY.TXT" will be showed.
- 4) Copy the latest upgrade file (.bin) to the "BOOTDISK" U-disk directly.
- 5) If the filename "READY.TXT" automatically turns to "SUCCESS.TXT", the firmware was upgraded successfully. If the firmware upgrade failed, please check the file (.bin) and then follow the above procedure to operate again.
- 6) Remove the USB cable after firmware upgrade.



Technical Specification

Video Input	
Input	(1) HDMI
Input Connector	(1) Type-A female HDMI
HDMI Input Resolution	Up to 8K@60Hz 4:2:0 10bit
HDMI Standard	2.1
HDR and HDR10+	Supported
Dolby Vision	Supported
HDCP Version	2.3, 2.2, 1.4 compliant
CEC	Supported
Video Output	
Output	(2) HDMI
Output Connector	(2) Type-A female HDMI
HDMI Output Resolution	Up to 8K@60Hz 4:2:0 10bit
HDMI Output	Supports up to 5V 200mA power for AOC cable.
HDMI Standard	2.1
HDR and HDR10+	Supported
Dolby Vision	Supported
HDCP Version	2.3, 2.2, 1.4 compliant
CEC	Supported
Control	
Control Part	(1) EDID 4-pin DIP switch, (1) Micro-USB port
General	
Bandwidth	40Gbps
HDMI V2.1 Cable Length	8K@60Hz 4:2:0 ≤ 3m, 4K@60Hz 4:4:4 ≤ 5m, 4K@60Hz 4:2:0 ≤ 10m, 1080p ≤ 15m
Operation Temperature	-5 to +55°C (+23° to +131°F)
Storage Temperature	-25 to +70°C (-13° to +158°F)
Relative Humidity	10% to 90%, Non-condensing
Power Supply	Input: 100V~240V AC; Output: 12V DC 1A

Power Consumption	TBC
Dimension (W*H*D)	115mm x 25mm x 95mm
Net Weight	275g

Note: Please adopt high-qualified HDMI cable fully compliant with HDMI V2.1 for reliable transmission and connection.



System Connection

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

