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User Manual [V1.0]



8K 60Hz 1x4 HDMI Splitter w/ Audio Extraction & EDID Control

ZT-485 | ZT-8KSP14-AE



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SAFETY PRECAUTIONS

- Please read all instructions before attempting to unpack, install or operate this equipment and before connecting the power supply.
- Please keep the following in mind as you unpack and install this equipment:
- Always follow basic safety precautions to reduce the risk of fire, electrical shock and injury to persons.
- To prevent fire or shock hazard, do not expose the unit to rain, moisture or install this product near water.
- Never spill liquid of any kind on or into this product
- Never push an object of any kind into this product through any openings or empty slots in the unit, as you may damage parts inside the unit.
- Do not attach the power supply cabling to building surfaces.
- Use only the supplied power supply unit (PSU). Do not use the PSU if it is damaged.
- Do not allow anything to rest on the power cabling or allow any weight to be placed upon it or any person walk on it.
- To protect the unit from overheating, do not block any vents or openings in the unit housing that provide ventilation and allow for sufficient space for air to circulate around the unit.

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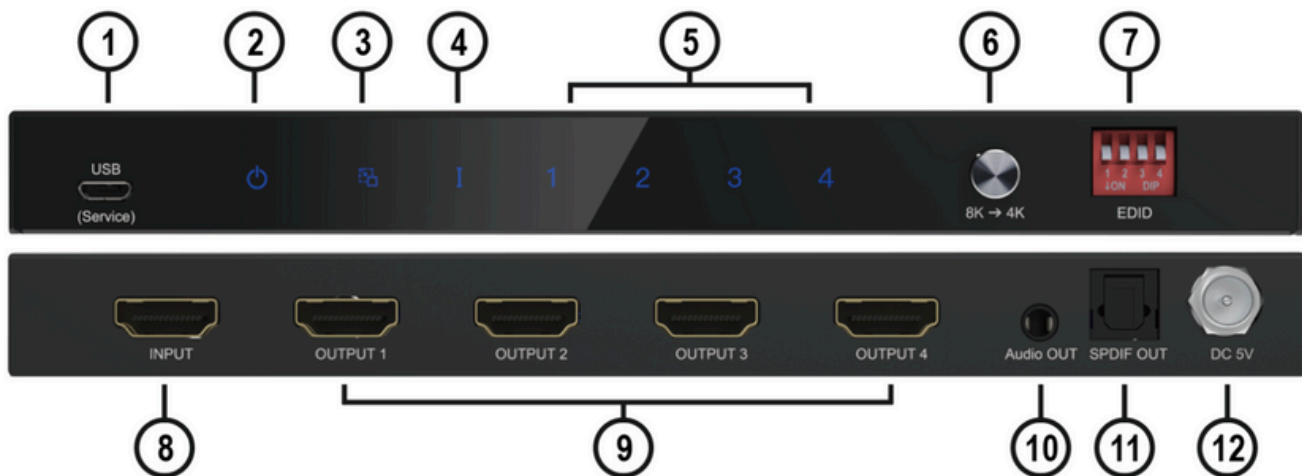
1. Introduction

The ZT-8KSP14-AE HDMI™ 8K 1x4 Splitter allows you to distribute a single HDMI-enabled audio/video source to up to four HDMI displays or projectors. Supporting Ultra HD resolutions up to 8K@60Hz, this splitter ensures stunning image quality — delivering four times the resolution of 4K@60Hz. The device is backward compatible with earlier HDMI revisions, including support for 4K, 1080p, and 720p resolutions. Even if you do not currently use 8K content, this splitter ensures you are prepared for future display technologies. Additional features include EDID management for copying the Output 1 EDID and fifteen preset EDID modes, along with audio extraction to both optical and analog outputs.

2. Package Contents

- (1) x 8K@60Hz 1x4 HDMI Splitter
- (1) x User Manual
- (1) x 5V 2A Power Adapter

3. Panel Description



- ① USB (Service): For factory use only
- ② Power LED indicator
- ③ Downscaler Mode LED indicator
- ④ HDMI Input LED indicator
- ⑤ 1 - 4 HDMI Output LED indicator
- ⑥ 8K → 4K: Downscaler mode selector button

When set to ON, the Downscaler EDID Mode enables the splitter to downscale an incoming 8K resolution signal to 4K or 1080p for displays connected to Output 2, 3, and 4, while maintaining the

original 8K resolution on Output 1 for an 8K-compatible display.

- ⑦ EDID: DIP switch for selecting between Copy Output 1 EDID and fifteen preset EDID modes
- ⑧ Input: HDMI Input port
- ⑨ Output 1 - 4: HDMI Output ports
- ⑩ Audio Output: Connect to audio output devices via 3.5mm cable
- ⑪ SPDIF Output: Connect to audio output devices via SPDIF cable
- ⑫ DC/5V input

4. Features

- Supports full 3D video formats
- Compatible with Ultra High Definition resolutions: 8K@60Hz 4:4:4, 4K@120Hz, and 1080p@240Hz
- 48Gbps total bandwidth (1200MHz / 12Gbps per channel)
- Supports 12-bit per channel (36-bit total) deep color
- HDCP 2.3 compliant, backward compatible with HDCP 2.2 and HDCP 1.4
- Supports HDR pass-through, including HDR10, HDR10+, Dolby Vision, and others
- Consumer Electronics Control (CEC) supported on Output 1
- Supports advanced HDMI features: Variable Refresh Rate (VRR), Auto Low Latency Mode (ALLM), Quick Frame Transport (QFT), and Quick Media Switching (QMS)
- Supports both uncompressed audio formats (LPCM) and compressed audio formats (DTS, Dolby Digital, including DTS-HD Master Audio™ and Dolby TrueHD)
- Offers EDID management with Copy Output 1 EDID and fifteen preset EDID modes

Note:

1. To output resolutions like 8K@60Hz, 4K@120Hz, and 1080p@240Hz, ensure your source device, cables, and displays all support these resolutions and refresh rates
2. Use HDMI 2.1 compliant cables to enjoy 8K visual effects
3. For 8K@60Hz 4:4:4 output, select Copy EDID mode and confirm both your source and display support the DSC function

5. EDID DIP Switch Settings



↓=HIGH ↑=LOW

Binary Code	1 2 3 4	EDID Setting Description
0000	↑ ↑ ↑ ↑	Copy EDID from HDMI Output 1
1000	↓ ↑ ↑ ↑	8Kx4K@60 4:2:0/8Kx4K@30 4:4:4/4Kx2K@120Hz 4:4:4, 48G, HDR10, 2CH AUDIO
0100	↑ ↓ ↑ ↑	8Kx4K@60 4:2:0/8Kx4K@30 4:4:4/4Kx2K@120Hz 4:4:4, 48G, HDR10, DOLBY/DTS 5.1
1100	↓ ↓ ↑ ↑	8Kx4K@60 4:2:0/8Kx4K@30 4:4:4/4Kx2K@120Hz 4:4:4, 48G, HDR10, HD AUDIO
0010	↑ ↑ ↓ ↑	4Kx2K@60, 18G, HDR10, 2CH AUDIO
1010	↓ ↑ ↓ ↑	4Kx2K@60, 18G, HDR10, DOLBY/DTS 5.1
0110	↑ ↓ ↓ ↑	4Kx2K@60, 18G, HDR10, HD AUDIO
1110	↓ ↓ ↓ ↑	4Kx2K@60, 10.2G, HDR10, 2CH AUDIO
0001	↑ ↑ ↑ ↓	4Kx2K@60, 10.2G, HDR10, DOLBY/DTS 5.1
1001	↓ ↑ ↑ ↓	4Kx2K@60, 10.2G, HDR10, HD AUDIO
0101	↑ ↓ ↑ ↓	1080p, 2CH AUDIO
1101	↓ ↓ ↑ ↓	1080p, DOLBY/DTS 5.1
0011	↑ ↑ ↓ ↓	1080p, HD AUDIO

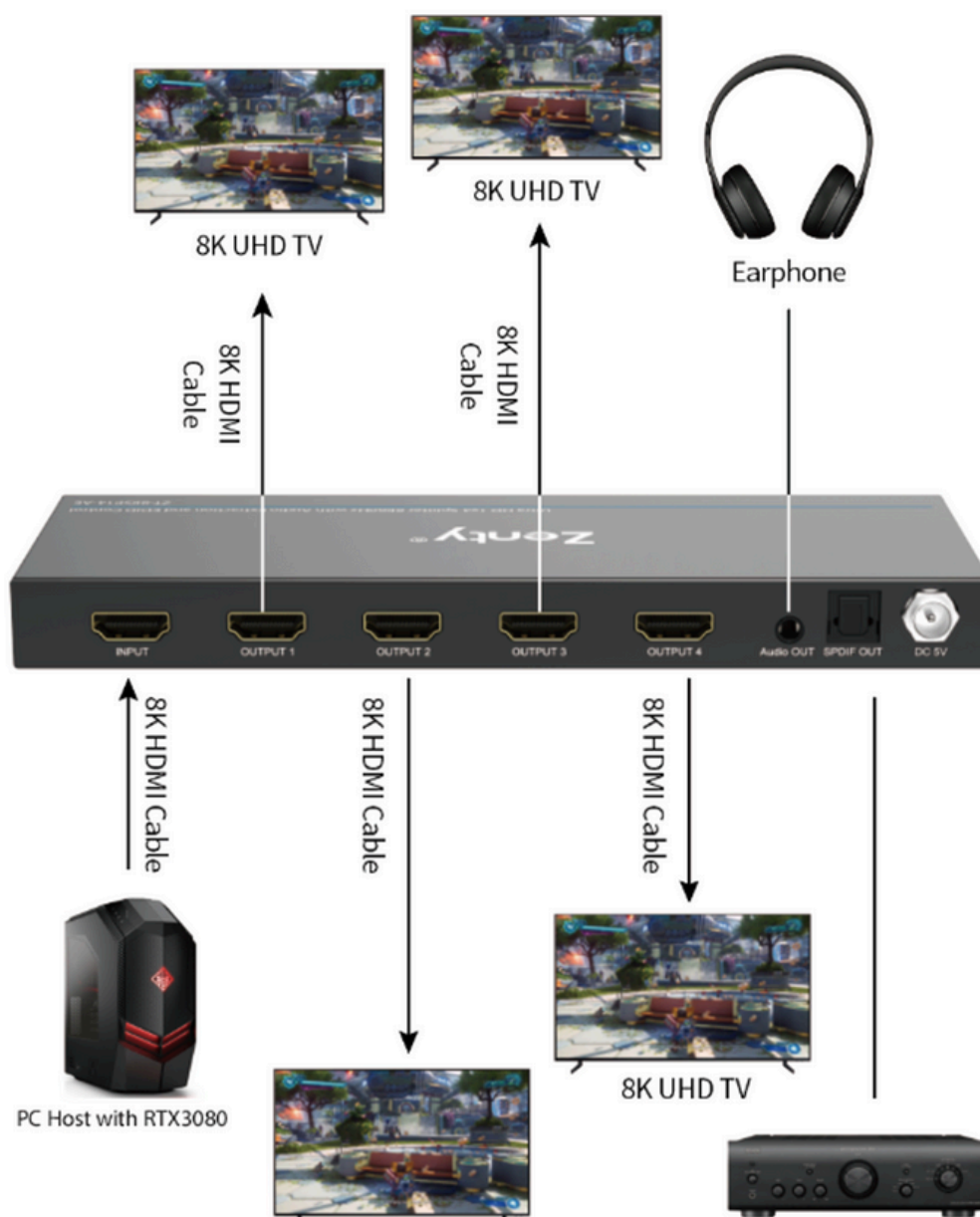
1011	↓ ↑ ↓ ↓	1280x720p@60 DVI
0111	↑ ↓ ↓ ↓	1920x1080p@60 DVI
1111	↓ ↓ ↓ ↓	4Kx2K@30, 10.2G, HDR, 2CH AUDIO

6. Specifications

Input Ports	HDMI x 1
Output Ports	HDMI x 4, 3.5mm x 1, SPDIF x 1
Vertical Frequency Range	50/60Hz
Video Amplifier Bandwidth	12Gbps/1200MHz per channel (48Gbps all channels)
Interlaced (50 & 60Hz)	480i, 576i, 1080i
Progressive (50 & 60Hz)	480p, 576p, 720p, 1080p, 4K@24/30Hz, 4K@50/60/120Hz, 8K@24/30/50/60Hz
Limited Warranty	1 Year
Operating Temperature	0°C to 70°C
Storage Humidity	5% to 90% RH non-condensation
Power Supply	5V DC @2A
Power Consumption (Max)	7W
Splitter Unit Cert	FCC, CE, RoHS
Power Supply Cert	FCC, CE, RoHS

Power Adapter Standard	US, EU, UK, AU Standard etc.
Dimensions (L x W x H)	187.6 x 70 x 18 (mm)
Net Weight	285g
Note: Specifications are subject to change without notice.	

7. Connection Diagram



8. Troubleshooting Common Issues

Q: The power light is off and the product isn't working. How can I fix this?

A: Please check the following:

- Ensure that both your HDMI source device and the power supply are properly connected and powered on.
- Confirm that the correct HDMI input is selected on your display, and that all HDMI cables are securely connected.

Q: My second display flickers when using the splitter. What could be causing this?

- A: This issue may be due to one or more of the following:
- Verify that all HDMI cables and splitter connections are secure.
- Ensure that you are using standard HDMI 2.1-compliant cables. At 8K@60Hz 4:4:4, the maximum supported cable length is 2 meters for both input and output connections. At 4K@60Hz, the maximum length is 4 meters.
- Try connecting the display to a different output port on the splitter to see if the issue persists.
- Switch to a different EDID mode to check if the display operates normally in an alternate configuration.

Q: The splitter isn't outputting to four 8K displays at the same time. Is this normal?

- A: No — the splitter is capable of outputting to four 8K displays simultaneously when operating in Default 8K EDID mode or Copy EDID mode, provided that all connected displays support the same 8K resolution.
- In Downscaler Mode, Output 1 will maintain 8K@60Hz 4:2:0, while Outputs 2, 3, and 4 will automatically downscale to 4K or 1080p based on the connected displays' capabilities. In this mode, it is not possible to output a mix of 8K, 4K, and 1080p signals at the same time.

9. Maintenance

Clean this unit with a soft, dry cloth. Never use alcohol, paint thinner, or benzene to clean.

10. Warranty

If your product does not work properly because of a defect in materials or workmanship, our company (referred to as “the warrantor”) will, for the length of the period indicated as below, “Parts and Labor (5) Years”, which starts with the date of original purchase (“Limited Warranty period”), at its option either (a) repair your product with new or refurbished parts, or (b) replace it with a new or a refurbished

product. The decision to repair or replace will be made by the warrantor.

During the “Labor” limited warranty period, there will be no charge for labor. During the “Parts” warranty period, there will be no charge for parts. You must mail-in your product during the warranty period. This Limited Warranty is extended only to the original purchaser and only covers products purchased as new. A purchase receipt or other proof of original purchase date is required for Limited Warranty service.

11. Mail-In Service

When shipping the unit, carefully pack and send it prepaid, adequately insured, and preferably in the original carton. Include a letter detailing the complaint and provide a daytime phone and/or email address where you can be reached phone and/or email address where you can be reached.

12. Limited Warranty Limits and Exclusions

This Limited Warranty **ONLY COVERS** failures due to defects in material or workmanship and **DOES NOT COVER** normal wear and tear or cosmetic damage. The Limited Warranty **ALSO DOES NOT COVER** damages which occurred in shipment, or failures which are caused by products not supplied by warrantor, or failures which result from accidents, misuse, abuse, neglect, mishandling, misapplication, alteration, faulty installation, set-up adjustments, mis-adjustment of consumer controls, improper maintenance, power line surge, lightning damage, modification, or service by anyone other than a Factory Service center or other Authorized Servicer, or damage that is attributed to acts of God.

There are no express warranties except as listed under “Limited Warranty Coverage”. The warrantor is not liable for incidental or consequential damages resulting from the use of this product or arising out of any breach of this warranty. (As examples, this excludes damages for lost time, cost of having someone remove or re-install an installed unit if applicable, travel to and from the service, loss of or damage to media or images, data or other recorded content. The items listed are not exclusive but are for illustration only). Parts and service, which are not covered by this limited warranty, are your responsibility.



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