

## Zigen ZIG-PHASED

18G 1x2 HDMI Repeater and HDMI/ARC Audio Extractor



ZIGEN
ZIG-PHASED

EDID Table			
VIDEO	HDR	AUDIO	AUDIO SOURCE
0001 - Auto	01 - Bypass	001 - Bypass	01 - HDMI In
0010 - 1080p60	10 - HDR Off	010 - Stereo Only	10 - ARC
0011 - 2160p30		011 - 5.1	
0100 - 2160p60		100 - 7.1	
0101 - EDID Out 1		101 - Dolby Only	
0110 - EDID Out 2		110 - DTS Only	
0111 - Stored EDID 1 *			
1000 - Stored EDID 2 *			
1001 - Checkerboard			
1010 - Ramp			
1011 - Red Ramp			
1100 - Green Ramp			
1101 - Blue Ramp			
1110 - White			
1111 - PRBS			

\* To Store EDID, Press & Hold: AUDIO SRC

🔒 OR 🔒 Press & Hold: VIDEO + AUDIO SRC



# Important Safety Instructions

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

This manual is only for operation instruction, please contact the local distributor for maintenance assistance. The functions described in this version were updated on March 2021. In the constant effort to improve the product, we reserve the right to make function or parameter changes without notice or obligation. Please refer to Zigen dealers for the latest details.



This warning symbol is used to alert anyone to heed important operating, installing, and maintenance instructions. Failure to do so could result in injury to installers and end-users or damage to equipment.



This lightning symbol is used to alert anyone of the presence of dangerous voltage that has the potential to cause serious injury to installers and end-users.

## Safety Statements

1. Follow all instructions and heed all warnings.
2. Do not expose equipment to rain or moisture and ensure that no objects containing liquids are placed on top of equipment. This includes cups, glasses, or vases.
3. Do not place equipment in confined spaces such as cabinets or bookshelves. Do not block any ventilation holes of equipment that may restrict airflow. This may cause dangerous overheating, fire hazard, or electric shock.
4. Do not place near heat sources such as fireplaces, heaters, boilers, radiators or any apparatus that produce heat such as computers or power amplifiers.
5. Unplug equipment from power supply during dangerous lightning conditions or during prolonged periods of non-use.
6. Keep power cord away from walking traffic. Keep cord from being pinched by heavy objects.
7. Always unplug power supply before cleaning equipment. Clean only with dry cloth.
8. Handle equipment with proper Electro-Static-Discharge (ESD) practices. Failure to do so may result in equipment failure.
9. Only use attachments or accessories specified by the manufacturer.
10. No user serviceable parts inside. Refer all servicing to qualified service personnel.
11. Batteries that may be included with this product and/or accessories should never be exposed to open flame or excessive heat. Always dispose of used batteries according to the instructions.

## 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.



# Packing List

The ZIG-PHASED, packaged with the following items:

- 1x ZIG-PHASED 1 x 2 HDMI Repeater and Audio Extractor
- 1x Universal 100-240 VAC, 12V/1A Power Supply
- 2x Wall Mounting Ears including Hardware
- 1x 5-pin Phoenix Connector for Balanced Analog Audio Interface
- 4x Plastic Cushions
- 1x User Manual

If any of these products are not present upon first opening of the package, please contact Zigen or your dealer.

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Zigen, Corp. reserves the right to make changes in the hardware, packaging, and any accompanying documentation without prior written notice.

# Specifications

Video Connection	HDMI 2.0b
Content Protection	HDCP 1.4   2.2
Maximum Video Resolution	4K60P UHD 4:4:4, 4K60P UHD 4:2:2 HDR
HDMI Inputs	1x
HDMI Outputs	2x
Optical Output (Digital Audio)	1x
Analog Unbalanced Audio Output	Left/Right (RCA)
Analog Balanced Audio Output	Left/Right (Phoenix Connector)
2-Pin Power Input Jack	1x (Locking Connector)
Maximum HDMI Bandwidth	17.82 Gbps
Color Space Support	RGB, YUV
YUV Subsampling	4:4:4, 4:2:2, 4:2:0
Full Color Depth	8 bits, 10 bits, 12 bits
High Dynamic Range (HDR)	Dolby Vision   HDR10+   HDR10   HLG
Audio Format (HDMI Output)	7.1 Channel PCM, DTS, DTS-HD, DTS-HD Master, Dolby Digital, Dolby Digital Plus, Dolby TrueHD, Dolby Atmos
Audio Format (Optical Output)	2-Channel PCM, Dolby Digital, DTS
Audio Format (Unbalanced RCA Output)	2-Channel Stereo PCM
Audio Format (Balanced Phoenix Output)	2-Channel Stereo PCM
EDID Management	✓
CEC	✓
Video Test Signal Generator	✓
ARC (HDMI Output #1)	HDMI Input, Optical Output, and Analog Audio Outputs (2-Channel PCM)
Power	12VDC @ 1A, Center pin hot
Dimensions	160.0mm x 22.5mm x 94.0mm   6.30 inches x 0.89 inch x 3.70 inches
Weight	453 grams   1.0 pound
Temperature	0° to 40° C (10% - 90% Non-Condensing Humidity)   32° to 104° F
HDMI 4K 600Mhz ESD Protection	Exceeds IEC61000-4-2 (Level 4)
Contact/Air Gap Discharge on External Lines	±15-kV
Regulatory Safety and Emissions	CE   FCC   RoHS   UL Listed Power Supply

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## 1 Overview

The ZIG-PHASED is a simple HDMI 2.0 1x2 Repeater, which takes a single HDMI source and outputs the audio and video to two independent HDMI sinks. The HDMI outputs are featured with independent scaling capabilities and will automatically optimize the video resolutions depending on the capabilities of the connected displays. As a repeater, this is a perfect solution for mixed resolution environments where a sink can output a video resolution for the display with highest resolution, such as UHDp60 4:4:4, while downscaling the opposing output connected to a lower resolution display, such as 1080p60.

The ZIG-PHASED is also an audio extractor from HDMI Input or ARC (HDMI Output 1). **Table 1** shows where the extracted audio can be heard.

**Table 1: Audio Source to Audio Output support.**

Source of Extracted Audio	Audio Outputs
<b>HDMI Input</b>	<ul style="list-style-type: none"><li>• Analog Audio Balanced/Unbalanced (2-Channel PCM Stereo Only)</li><li>• Optical (2-Channel PCM, Dolby Digital, and DTS)</li><li>• HDMI Output 1 (Multi-Channel Dolby/DTS Surround Sound)</li><li>• HDMI Output 2 (Multi-Channel Dolby/DTS Surround Sound)</li></ul>
<b>ARC (HDMI Output 1)</b>	<ul style="list-style-type: none"><li>• Analog Audio Balanced/Unbalanced (2-Channel PCM Stereo Only)</li><li>• Optical (2-Channel PCM, Dolby Digital, and DTS)</li><li>• HDMI Input (Multi-Channel Dolby/DTS Surround Sound)</li></ul>

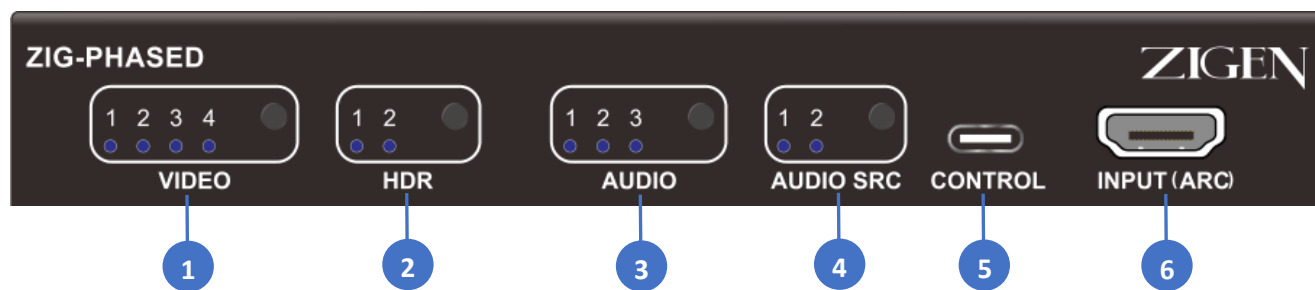
The ZIG-PHASED is an EDID Manager to configure the audio and video of an HDMI source. Multiple built-in video resolution EDID settings can be selected with enable/disable control of HDR. Multiple Audio formats can be chosen from 2-channel PCM to the latest surround sound formats. EDID from any sink can be stored permanently in two memory slot locations and can be later recalled for use even though that sink had been disconnected from the unit.

The ZIG-PHASED is also a fixed pattern test signal generator. Different test patterns can be produced at different resolutions depending on the capabilities of the connected HDMI sinks.

The ZIG-PHASED is a multi-purpose audio/video tool. As an HDMI2.0 1:2 Repeater, it has independent automatic scaling at the outputs for mixed resolution environments. As an audio extractor, it can extract audio from an HDMI source or from Audio Return Channel (ARC) from Smart TVs without the need for an Audio/Video Receiver in the system. With its EDID Management feature and Test Pattern Generator, the ZIG-PHASED is an invaluable tool to help integrators fix common problems in the field.

# Front Panel

## 2 Front Panel



The ZIG-PHASED uses pushbuttons with LEDs to configure the unit’s Video mode, HDR support, Audio Format mode, and Audio Source selection. Repeated pressing of the pushbutton cycles through the modes. Refer to the table printed on the top of the unit to determine the selected modes.

### 1 Video Mode Selection

The Video Selection has one pushbutton and four LED mode indicators. Pressing the pushbutton will cycle through the different modes. Below is the Video Selection mode table:

Video Mode	Function
0 0 0 1	Auto – Use EDID from the sink with the lowest native resolution. This will ensure that video will always be displayed on both HDMI outputs in mixed resolution environments.
0 0 1 0	1080p60 – Source EDID set for 1080p60.
0 0 1 1	2160p30 – Source EDID set for 2160p30.
0 1 0 0	2160p60 – Source EDID set for 2160p60.
0 1 0 1	EDID OUT 1 – Source EDID from connected sink on HDMI Output 1.
0 1 1 0	EDID OUT 2 – Source EDID from connected sink on HDMI Output 2.
0 1 1 1	Stored EDID 1 – Use memorized EDID 1. <i>Note: Press and hold the Audio SRC pushbutton to permanently store the EDID from the connected sink on HDMI Output 1.</i>
1 0 0 0	Stored EDID 2 – Use memorized EDID 2. <i>Note: Press and hold the Audio SRC pushbutton to permanently store the EDID from the connected sink on HDMI Output 2.</i>
1 0 0 1	Checkerboard – Test Signal Output, Black and White Checkerboard.
1 0 1 0	Ramp – Test Signal Output, Black to White Ramp.
1 0 1 1	Red Ramp– Test Signal Output, Black to Red Ramp.
1 1 0 0	Green Ramp– Test Signal Output, Black to Green Ramp.
1 1 0 1	Blue Ramp– Test Signal Output, Black to Blue Ramp.
1 1 1 0	White – Test Signal Output, White Field.
1 1 1 1	PRBS – Test Signal Output, Pseudo Random Bit Stream.

# Front Panel

## 2 HDR Selection

The HDR Selection has one pushbutton and two LED mode indicators. Pressing the pushbutton will cycle through the different modes. Below is the HDR Selection mode table:

HDR Mode	Function
0 1	BYPASS – Source EDID set to allow HDR if available.
1 0	HDR OFF – Source EDID set to disable HDR.

## 3 Audio Selection

The Audio Selection has one pushbutton and three LED mode indicators. Pressing the pushbutton will cycle through the different modes. Below is the Audio Selection mode table:

Audio Mode	Function
0 0 1	<p>Bypass – Source EDID set to default audio format.</p> <p><b>Note:</b> Analog Audio Balanced and Unbalanced Outputs only support 2-Channel PCM. Noise may be heard from these outputs if the default audio format is multi-channel surround sound.</p>
0 1 0	<p>Stereo Only – Source EDID sets audio format for 2-Channel PCM only. All surround sound formats are disabled.</p>
0 1 1	<p>5.1 – Source EDID sets audio format for up to 5.1 Surround Sound. Multi-channel 7.1 Surround Sound or greater are disabled.</p> <p><b>Note:</b> Analog Audio Balanced and Unbalanced Outputs only support 2-Channel PCM. Noise may be heard from these outputs if the audio format is multi-channel surround sound.</p>
1 0 0	<p>7.1 – Source EDID sets audio format for up to 7.1 Surround Sound. Multi-channel formats with higher channel counts are disabled.</p> <p><b>Note:</b> Analog Audio Balanced and Unbalanced Outputs only support 2-Channel PCM. Noise may be heard from these outputs if the audio format is multi-channel surround sound.</p>
1 0 1	<p>Dolby Only – Source EDID set to allow all Dolby formats only. All DTS formats are disabled.</p> <p><b>Note:</b> Analog Audio Balanced and Unbalanced Outputs only support 2-Channel PCM. Noise may be heard from these outputs if the audio format is multi-channel surround sound.</p>
1 1 0	<p>DTS Only – Source EDID set to allow all DTS formats only. All Dolby formats are disabled.</p> <p><b>Note:</b> Analog Audio Balanced and Unbalanced Outputs only support 2-Channel PCM. Noise may be heard from these outputs if the audio format is multi-channel surround sound.</p>



# Front Panel

## 4 Audio Source Selection

The Audio Source Selection has one pushbutton and two LED mode indicators. Pressing the pushbutton will cycle through the different modes. Below is the Audio Source Selection mode table:

Audio Source Mode	Function
<b>0 1</b>	<p>HDMI In – Audio from the HDMI Input is extracted and sent to the HDMI Outputs, Optical, Audio Unbalanced Output, and Audio Balanced Output.</p> <p><b>Note:</b> Analog Audio Balanced and Unbalanced Outputs only support 2-Channel PCM. Noise may be heard from these outputs if the ARC audio format is multi-channel surround sound.</p>
<b>1 0</b>	<p>ARC – Audio from the Audio Return Channel (ARC) is extracted and sent to HDMI Input, Optical Output, Audio Unbalanced Output, and Audio Balanced Output.</p> <p><b>Note:</b> Analog Audio Balanced and Unbalanced Outputs only support 2-Channel PCM. Noise may be heard from these outputs if the ARC audio format is multi-channel surround sound.</p>

## 5 Control (USB Type-C)

The Control port (USB Type-C) is used for firmware updates. Connect a Windows PC to this port and run the ZIG-PHASED Firmware Update Application (available on the Zigen website). Download the latest ZIG-PHASED firmware then follow the instructions on the Application.

## 6 HDMI Input

Connect a video source to this HDMI input. If an Audio/Video Receiver (AVR) capable of Audio Return Channel (ARC) is connected to this input, the ARC stream from HDMI Output 1 will be passed to this input if ARC is enabled from the sink.

**Note:** Zigen highly recommends the use of premium 4K certified HDMI cables when viewing UHD 60p 4:4:4 or UHD 60p HDR 4:2:2 video resolutions. Zigen offers these premium 4K certified cables in varying lengths from 3 meters to 9 meters.

## HDCP Management

There are two settings for HDCP Management: Auto, and Force HDCP 1.4. By default, the Auto setting will support the HDCP protocol of the input source (HDCP 2.2 or HDCP 1.4) and the HDCP protocol supported by the connected sink. However, certain installations may require the ZIG-PHASED HDMI Outputs to enforce HDCP 1.4 to ensure compatibility with certain legacy displays regardless of the HDCP protocol of the input source.

To force HDCP 1.4 only at the output, press and hold the HDR pushbutton for approximately 2 seconds until the Video LEDs illuminate 0001 and all other LEDs in the front panel are off. To revert back to

# Front Panel

default mode, Auto, press and hold the HDR pushbutton for approximately 2 seconds until the Video LEDs illuminate 0011 and all other LEDs in the front panel are off. The HDCP Management setting will be memorized and recalled during a power cycle.

## ARC CEC Settings

The ARC CEC Settings can be set to “AUTO” or “OFF” depending on the installation. If the Phased is used to extract ARC from a SmartTV and there is no ARC featured AVR connected on its HDMI Input (refer to **Figure 2: ZIG-PHASED 1:2 Repeater. Audio extracted from HDMI In or ARC from SmartTV.**), then configure ARC CEC to “Auto” to allow the Phased to negotiate with the SmartTV to output its ARC audio. In this interconnect, the Phased becomes the “Audio System”.

If the Phased is used in conjunction with an ARC featured AVR at the input (refer to **Figure 3: ARC Passive Mode with an ARC Enabled Audio/Video Receiver.**), then configure ARC CEC to “Off” to allow the AVR to negotiate with the SmartTV to output its ARC audio. In this interconnect, the AVR becomes the “Audio System”.

To configure ARC CEC Settings to “Off”, press and hold the Audio pushbutton for approximately 2 seconds until the ARC Source LEDs illuminate 10 and all other LEDs in the front panel are off. To configure ARC CEC Settings to “Auto”, press and hold the Audio pushbutton for approximately 2 seconds until the ARC Source LEDs illuminate 11 and all other LEDs in the front panel are off. Once the desired ARC CEC Settings are configured, power cycle the Phased to apply the new settings.



**Important:** *If the ARC CEC Settings is changed, power cycle the Phased so the new settings will take effect.*

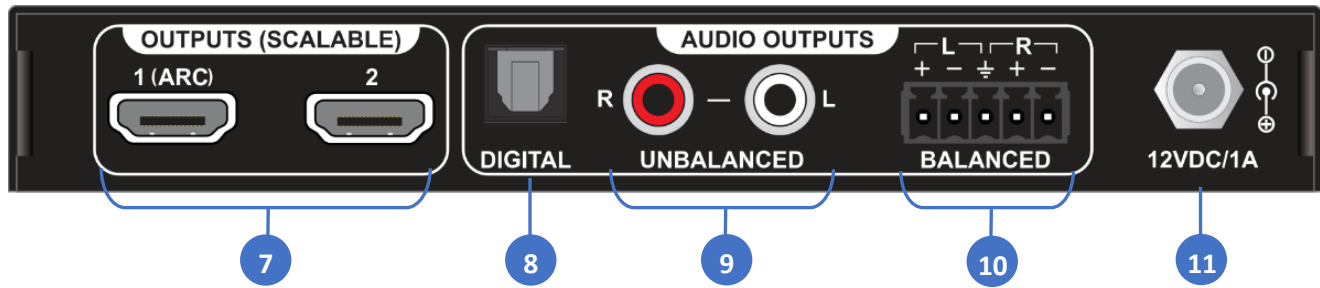
## Locking and Unlocking the Pushbuttons

Once the ZIG-PHASED pushbutton modes have been set, the pushbuttons can be locked to prevent accidental presses and inadvertent changes to the unit’s operation. To lock the pushbuttons, press and hold both VIDEO and AUDIO SRC at the same time until the front panel LEDs change illumination to all off. The front panel pushbuttons are now locked and the operational modes cannot be changed.

To unlock the pushbuttons, press and hold both VIDEO and AUDIO SRC at the same time until the front panel LEDs change illumination to all off. The unit’s operational modes can now be changed using the pushbuttons.

# Rear Panel

## 3 Rear Panel



### 7 HDMI Outputs

Connect displays or any HDMI sinks to the ZIG-PHASED HDMI Outputs. The video and embedded audio from the HDMI Input will be routed to both HDMI outputs.

If ARC is enabled and the ZIG-PHASED is the Audio System, ARC audio sourced from a SmartTV on HDMI Output 1 will be extracted and can be heard on the unit's Optical and Analog Audio Outputs.

If ARC is enabled and an AVR is connected at the ZIG-PHASED HDMI Input, ARC audio sourced from a SmartTV will be passed through to HDMI input #1 where the AVR can process the sound and output to its connected speakers.

### 8 Optical Output

This Optical port will output the embedded digital audio either from the HDMI Input or from HDMI Out ARC depending on the Audio Source mode (refer to section **Audio Source Selection**). The Optical output supports 2-Channel PCM as well as surround sound formats like Dolby Digital and DTS.

### 9 Unbalanced Analog Audio RCA Outputs

The Unbalanced RCA Left/Right connectors will output analog audio from the HDMI Input or from HDMI Out ARC depending on the Audio Source mode (refer to section **Audio Source Selection**). Only 2-Channel Stereo PCM audio format is supported. Noise may be heard on the RCA Outputs if a surround sound audio format, such as 5.1, 7.1, Dolby Digital, DTS, etc., is configured.

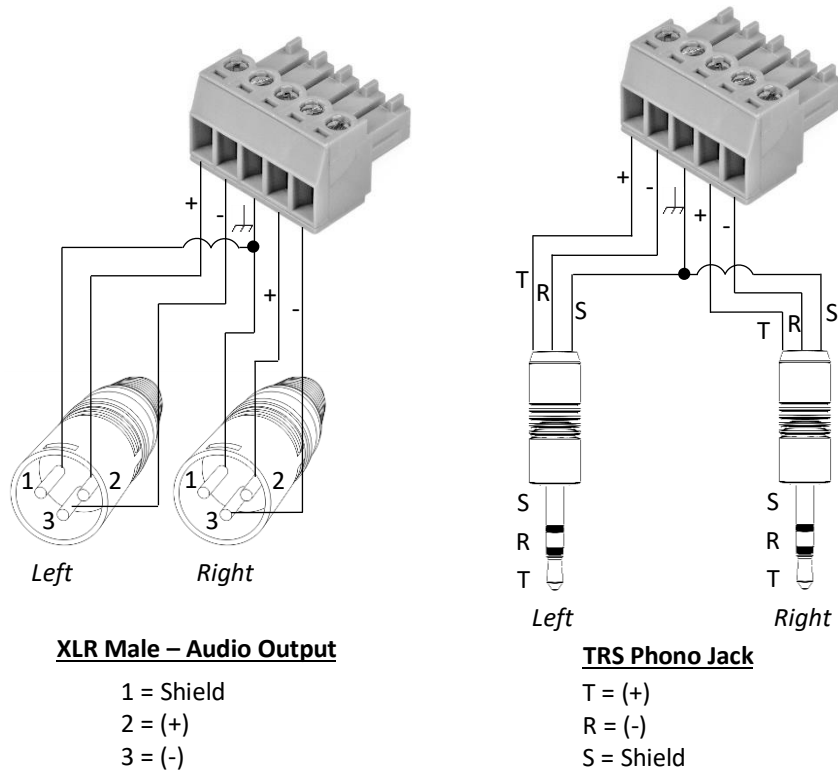
### 10 Balanced Analog Audio Outputs

The Phoenix Connector terminal block will output Professional level Balanced Left/Right analog audio either from the HDMI Input or from HDMI Out ARC depending on the Audio Source mode (refer to section **Audio Source Selection**). Only 2-Channel Stereo PCM audio format is supported. Noise may be heard on the Balanced Audio Outputs if a surround sound audio format, such as 5.1, 7.1, Dolby Digital, DTS, etc., is configured.

The Phoenix connector terminal block needs to be connected with appropriate cables terminated with male XLR connectors, 1/4" TRS Phono Jacks, or any other termination connectors required by the

# Rear Panel

installation. The required pinout of the Phoenix connector is shown in **Figure 1: Balanced Audio Phoenix Connector Pinout**.



**Figure 1: Balanced Audio Phoenix Connector Pinout**

## 11 Power

The ZIG-PHASED requires 12VDC @ 1Amp to power the unit. Use the included power adaptor and ensure the locking ring is threaded snugly to prevent inadvertent disconnection of the power jack. Make sure all video, audio, and control ports are properly connected before applying power to the ZIG-PHASED.

## 4 Installation

### Video

1. Use an HDMI cable to connect UltraHD sources to the Input on the front panel of the unit.
2. Use a HDMI cables to connect displays or any other sinks to the Output on the rear panel of the unit.

The HDMI cable can then be connected in any of the following ways:

- Connect the HDMI cables to an Ultra HD display.
- Connect the HDMI cables to another Zigen switch or splitter, for cascading purposes.

*Note: Zigen highly recommends the use of premium 4K certified HDMI cables when viewing UHD 60p 4:4:4 or UHD 60p HDR 4:2:2 video resolutions. Zigen offers these premium 4K certified cables in varying lengths from 3 meters to 9 meters.*

### Audio

3. Determine the audio interconnect requirement in the installation. For multi-channel surround sound formats such as Dolby Digital or DTS, use the Optical interface or ARC passed through the HDMI input.
4. To connect to multi-zone amplifiers with pre-amp analog inputs, connect the ZIG-PHASED unbalanced RCA or professional-level balanced audio connectors to the amplifiers. The audio source can be selected from either the HDMI input or ARC from HDMI Output 1.

### Power

5. Connect the included 12V DC locking power supply to the 12V DC power receptacle on the rear panel of the switch.
6. Connect the power supply to an electrical outlet.



**IMPORTANT:** Remove power from the ZIG-PHASED when connecting new video and audio cables or changing the video and audio cable interconnects. Failure to do so could cause irreparable damage to the unit or cause injury to installers and end-users.



**IMPORTANT:** Ensure that all video, audio, and control port interconnects are properly connected before applying power to the unit. Failure to do so could cause irreparable damage to the unit or cause injury to installers and end-users.

# ARC Functionality

## ARC Extraction Mode without an ARC Enabled Audio/Video Receiver at the Input

The ZIG-PHASED can extract ARC audio from a Smart TV connected to HDMI Output 1 even if there is no ARC supported AVR or SoundBar in the system (refer to **Figure 2**). In this mode, the ZIG-PHASED becomes an Audio System to negotiate with the Smart TV and enable its ARC. The ZIG-PHASED can redirect the extracted ARC to the Optical, Unbalanced Audio, and Balanced Audio outputs. To enable this type of ARC functionality, the ZIG-PHASED EDID Modes must be configured as follows:

PHASED EDID Modes	
VIDEO	Any Video Modes
HDR	Any HDR Modes
AUDIO	Any Audio Modes
AUDIO SRC	HDMI In (01) or ARC (10), depending on the desired audio to be heard on the Optical, Unbalanced Audio, and Balanced Audio.
ARC CEC Settings	AUTO

## ARC Passive Mode with an ARC Enabled Audio/Video Receiver at the Input.

If an ARC featured AVR is connected to the ZIG-PHASED HDMI Input, ARC from a Smart TV connected to HDMI Output 1 will be redirected back to the AVR (refer to **Figure 3**). In this mode, the AVR at the input becomes the Audio System to negotiate with the Smart TV. The ZIG-PHASED becomes passive and will redirect all CEC and ARC traffic from its HDMI Output 1 to its HDMI Input. To enable this type of ARC functionality, the ZIG-PHASED EDID Modes must be configured as follows:

PHASED EDID Modes	
VIDEO	EDID Out 1 (0101)
HDR	Bypass (01)
AUDIO	Bypass (001)
AUDIO SRC	HDMI In (01) or ARC (10), depending on the desired audio to be heard on Optical, Unbalanced Audio, and Balanced Audio.
ARC CEC Settings	OFF



**Important:** Some AV Receivers in ARC mode will mute the embedded audio on its HDMI Output because the manufacturer assumes the user wants all audio to be heard on the speakers directly connected to that AVR. Because of this phenomenon, the ZIG-PHASED will not receive any audio from the AVR and no sound will be heard on the ZIG-PHASED HDMI Outputs, Optical, and Analog Audio interfaces. This is not a fault or failure of the ZIG-PHASED unit, but a design choice of certain AV Receiver manufacturers. Please take this phenomenon into account when deciding on the ZIG-PHASED interconnect.

# Interconnect Diagram Examples

## 5 Interconnect Diagram Examples

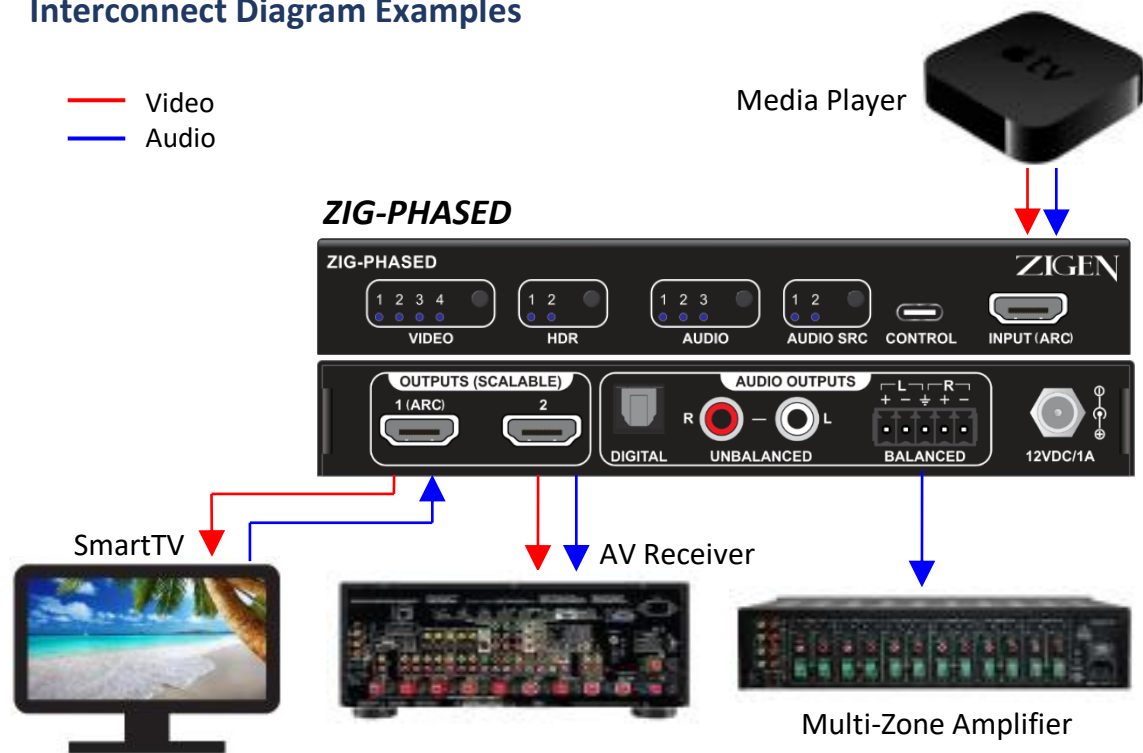


Figure 2: ZIG-PHASED 1:2 Repeater. Audio extracted from HDMI In or ARC from SmartTV.

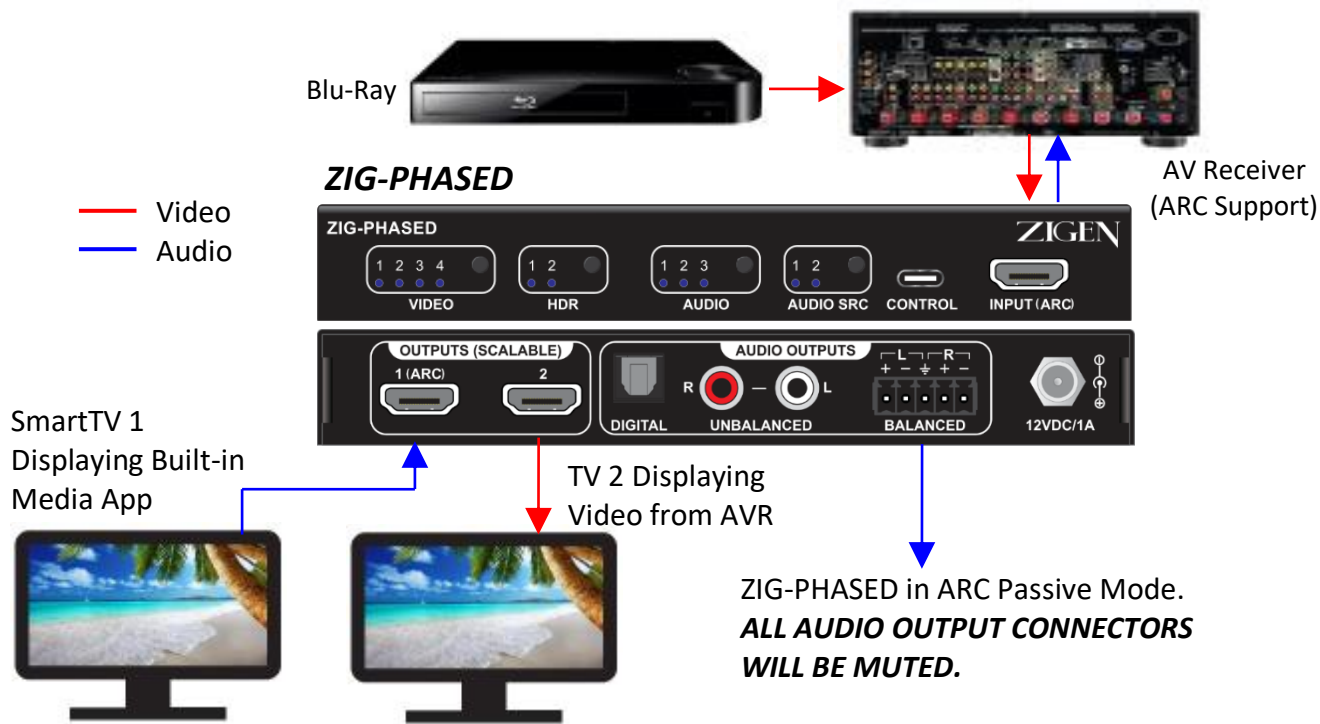


Figure 3: ARC Passive Mode with an ARC Enabled Audio/Video Receiver.

# Interconnect Diagram Examples

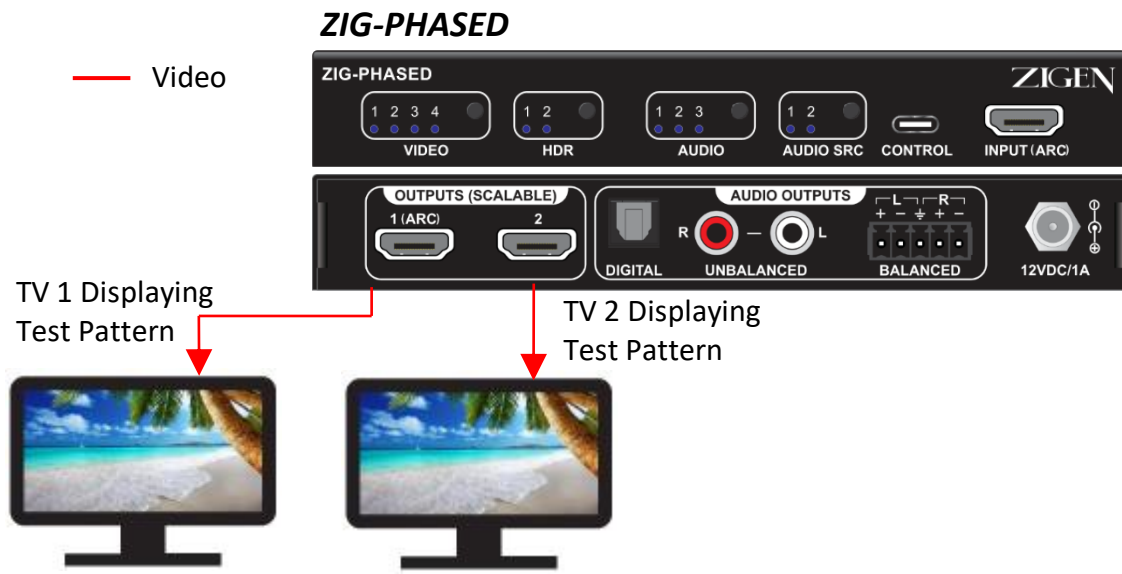


Figure 4: ZIG-PHASED outputting Test Patterns.



# Contacting Zigen

## 6 Contacting Zigen

Technical Support

Tel: (818) 654-5252

Fax: (818) 654-5355

9:00AM - 5:00PM (PST)

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USA

# Warranty Information

## 7 Warranty Information

### Powered Product Warranty

Zigen, Inc. warrants its powered products against any defects in materials and workmanship for a period of three years from the date of invoice. Touchscreen displays carry a one-year parts and labor warranty. If a malfunction occurs during the warranty period, Zigen, Inc. will repair or replace a product to its original operating condition. A return authorization number must be obtained from Zigen, Inc. before products are returned for service.

### Non-Powered and Cable Products - Lifetime Limited Performance Warranty

Zigen, Inc. warrants that its non-powered products and cable products will be free from defects in material and workmanship for as long as you or your customer owns the product. All Zigen non-powered products and cables are designed and engineered to meet and exceed performance specifications. If, at any time, the product fails due to manufacturer defect, Zigen will repair or replace the product to ensure that it meets original performance specifications. Reduced performance due to normal wear and tear, or damages caused by misuse or negligence will not be covered. Zigen will test and evaluate all non-powered and cable products claimed defective. Products must be shipped to Zigen, prepaid along with proof of purchase only after obtaining a Return Merchandise Authorization (RMA) number from the Zigen. This statement of policy is in lieu of any other policy expressed or implied and no representative or person is authorized to assume any other liability or adopt any other policy for Zigen without our written consent.

### Return Policy

If you would like to return a Zigen product, it can be done within 30 days of purchase for a full refund, less shipping and handling. Zigen will not be responsible for shipping and handling of product returns. Returns will only be accepted of products with proof of purchase, products in the original packaging with zero to minimal use and a Return Merchandise Authorization RMA number provided by Zigen.

# Document Revision History

## 8 Document Revision History

V00 – March 12, 2021

1. Added ARC Passive Mode description.
2. Added ARC Extraction Mode description.
3. Added ARC CEC Settings feature.
4. Updated Audio Output Connector information when in ARC Passive Mode.

V00 – February 01, 2021

1. Updated information for Video Mode Auto (0001).
2. Updated information for Front Panel Lock/Unlock.

V00 – December 30, 2020

3. Added HDCP Management (effective ZIG-PHASED Firmware d12.29.20 or newer).
4. Updated the Rear Panel picture.
5. Updated **Table 1**.
6. Updated **Figure 3**.

V00 – December 18, 2020

1. ZIG-PHASED User Manual Initial Release.