

USER MANUAL

AVG-HDE1 HDMI Audio Splitter/De-Embedder

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Version: HDE1_2015V1.0



HDE1 is a high quality HDMI Audio splitter/de-embedder, with 1 HDMI and 1 split stereo audio output. HDCP compliant and HDTV compatible.

Features

- De-embed and split the HDMI audio to an analogue output (1 video output, 1 audio output).
- HDCP compliant, uses HDMI 1.3 standard.
- HDTV compatible with High Definition Transmission up to 1920*1200@60Hz resolution (max).
- Antistatic case design to provide good long protection and stable performance.

**PLEASE READ THIS PRODUCT MANUAL CAREFULLY
BEFORE USING THIS PRODUCT.**

This manual is only for operation instruction only, and not to be used in a maintenance capacity. The functions described in this version are current till March 2015. Any changes of functions and operational parameters will be updated in future manual versions. Please refer to your dealer for the latest product details.

Version 1.0 1/3/15

SAFETY OPERATION GUIDE



In order to guarantee the reliable operation of the equipment and safety of the user, please abide by the following procedures in installation, use and maintenance:

1. The system must be earthed properly. Please do not use two blade plugs and ensure the alternating power supply ranges from 100v to 240v and from 50Hz to 60Hz.
2. Do not install the switcher in an environment where it will be exposed to hot or cold temperatures.
3. This unit will generate heat during operation, please ensure that you allow adequate ventilation to ensure reliable operation.
4. Please disconnect the unit from mains power if it will be left unused for a long time.
5. Please **DO NOT** try to open the casing of the equipment, **DO NOT** attempt to repair the unit. Opening the unit will void the warranty. There are high voltage components in the unit and attempting to repair the unit could result in serious injury.
6. Do not allow the unit to come into contact with any liquid as that could result in personal injury and product failure.

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1. Introduction

HDE1 is a high-quality HDMI audio splitter/de-embedder, with 1 HDMI and 1 split stereo audio output, HDCP compliant and HDTV compatible. The antistatic case design of the HDE1 provides good electrical protection for stable performance, and a transmission resolution up to 1920*1200@60Hz.



1.1. Features

- De-embeds and splits the HDMI audio to two different formats (1 video output, 1 audio output).
- HDCP compliant, uses HDMI 1.3 standard.
- HDTV compatible with High Definition Transmission up to 1920*1200@60Hz resolution (max).
- Antistatic case design to provide good protection for long-term and stable performance.

2. What's in the Box

- 1 x HDE1
- 1 x Power Adapter (DC 5V)
- 2 x Mounting Ears (Separated from HDE1)
- 4 x Screws
- 1 x User Manual

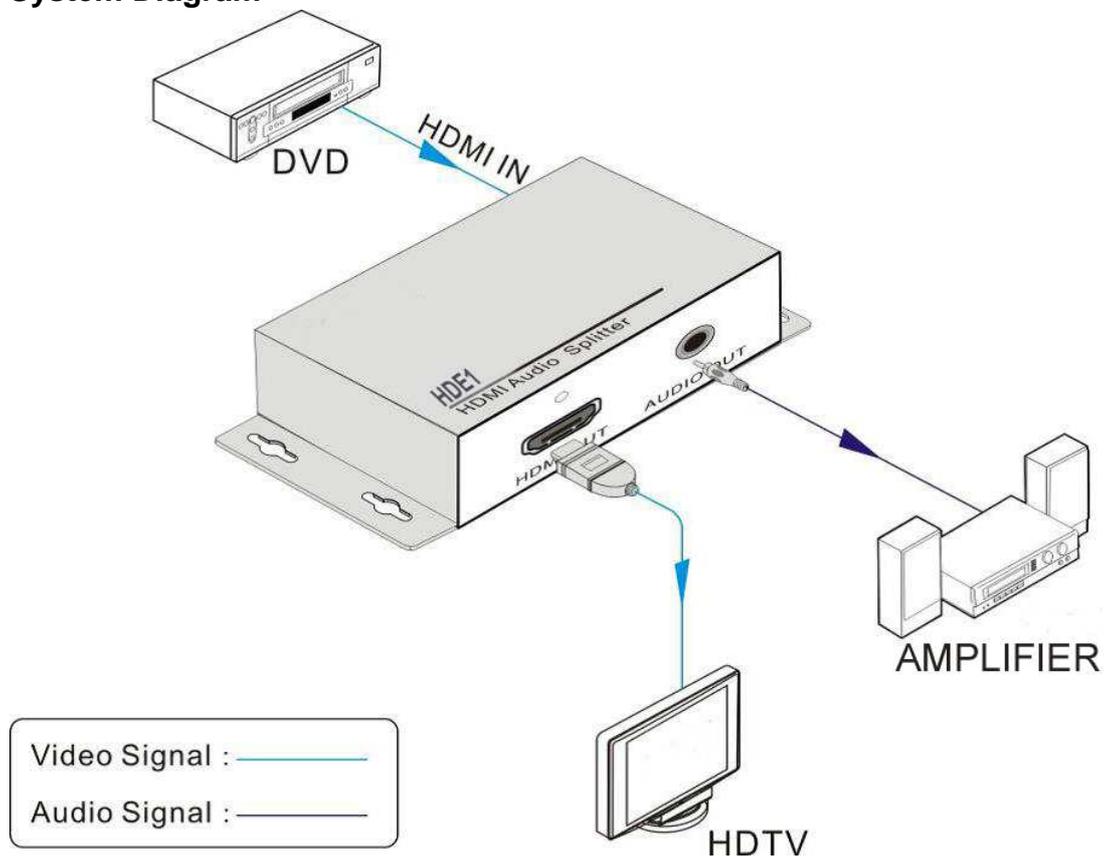
Note: Please confirm that the product and the accessories are all included, if not, please contact your dealer.

3. Connecting the HDE1



- ① **HDMI IN:** HDMI input port, used to connect to a HD video source device, such as a DVD player, a computer etc.
- ② **5V DC:** Unit Power Supply Connector.
- ③ **Power Indicator:** Indicates red when power on.
- ④ **HDMI OUT:** HDMI output port, used to connect to a display, such as a TV.
- ⑤ **AUDIO OUT:** 3.5mm Stereo audio output, used to connect to an audio amplifier, matrix etc.

3.1. System Diagram



3.2 Usage Precautions

In order to guarantee the reliable operation of the equipment and safety of the user, please abide by the following procedures for installation and maintenance:

1. The system must be earthed properly. Do not use two blades plugs and ensure the AC power supply is in range from 100v to 240v and from 50Hz to 60Hz.
2. Do not operate the equipment in direct sun.
3. System should be installed in a clean environment which has controlled temperature and humidity.
4. Turn off the power switch in humid weather or if left unused for a long time.
6. Please DO NOT try to open the equipment case, DO NOT attempt repair the equipment.
7. DO NOT splash any chemicals on the equipment.

4. Specification

Video Input		Video Output	
Input	1 HDMI	Output	1 HDMI, 1 Stereo Audio
Input Connector	HDMI 1.3	Output Connector	HDMI 1.3, 3.5mm jack
Input Level	T.M.D.S. 2.9V/3.3V	Output Level	T.M.D.S. 2.9V/3.3V
Input Impedance	50Ω	Output Impedance	50Ω
Video General			
Gain	0 dB	Bandwidth	340 MHz(10.2 Gbit/s)
Video Signal	T.M.D.S signal HDMI 1.3	Maximum Pixel Clock	165MHz
Resolution Range	Up to 1920 x 1200 or 1080P@60Hz	Delay Time	5nS (±1nS)
CMRR	>90dB @20Hz~20K Hz		
Consumer Electronics Control	Supports CEC wired infrared data pass-through using the HDMI 1.3 standard.		
HDCP Management	Compliant with High-bandwidth Digital Content Protection (HDCP) using DVI and HDMI 1.3 standards.		
Audio General			
Frequency Response	20Hz ~ 20KHz	CMRR	>70dB@20Hz~20K Hz
SNR	80Db (max)	Bandwidth	20Hz ~ 25KHz
Stereo Channel Separation	>75dB@20Hz ~ 20KHz	THD + Noise	1%@1KHz, 0.3%@20KHz
General			
Power Supply	100VAC ~ 240VAC, 50/60Hz	Power Consumption	3W
Temperature	-20 ~ +70°C	Humidity	10% ~ 90%
Case Dimension	W92 x H28 x D52.5 mm	Product Weight	0.2Kg

5. Troubleshooting & Maintenance

1. If Image output is ghosting, this may be caused by an incorrect setting on the projector or a bad quality cable. Please check the projector's setting or try another high quality HDMI cable.
2. When there is a loss of color or no video signal output, please check the input and output end connections of the cables.
3. If the picture static becomes stronger when connecting the audio or video connectors, it is likely due to bad grounding. Please check the grounding of the Unit and it's signal cables.
4. If the **POWER** indicator doesn't work or unit is non-responsive, please make sure the power cord is in good condition.
5. If the output image has interference, please make sure the system is grounded well.