

HDMI Digital Audio Decoder With Repeater Function

Operation Manual



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1. Introduction

This is the most advanced solution for HDMI to HDMI repeater with Audio decoder. This is compatible to HDMI v1.3 specifications, a cutting-age technology which defines to transfer Deep Color (12 bits/color) video with a high bandwidth up to 225MHz. The HDMI v1.3 Distribution Amplifier also supports signal amplification and equalization output that can be connected with other HDMI to HDMI units for repeater function. The decoded audio is output through multi-channel 3.5mm stereo phone jacks and optical toslink for uncompressed analog LPCM 7.1 and the new lossless compressed digital Bitstream (Dolby TrueHD, Dolby Digital Plus and DTS-HD Master Audio)

2. Features

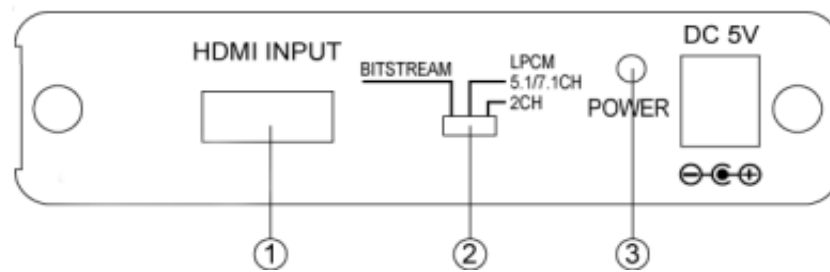
- Compliant with HDMI 1.3, HDCP 1.1 and DV11.1 standards.
- Supports digital video formats in Deep Color Mode from 25MHz to 225MHz for 36 bits (12 bits/color).
- Supports high definition input up to 1080p@(24/60)Hz, output resolution follows input.
- Supports HDMI signal amplification and equalization output for repeater function.
- Supports uncompressed digital LPCM 7.1, 5.1 or 2 channels and compressed digital Bitstream (Dolby TrueHD, Dolby Digital Plus and DTS-HD Master Audio) through HDMI input and output ports.
- Supports digital Dolby 5.1/2 and LPCM 2 channels output through optical fiber.
- Supports LPCM 7.1/5.1/2 channels output through multi-channel output ports.
- Integrated HDCP encryption for transmitting protected audio and video content.
- Support CEC bypass.
- The HDMI cable distance test with 1080p/8bits resolution, the Input/Output source can run up to 20/15 meters and 1080p/12bits the Input/Output source can run up to 15/10 meters.

3. Package Contents

- HDMI over HDMI with Audio decoder.
- 5V DC power supply adaptor.
- Operation Manual.

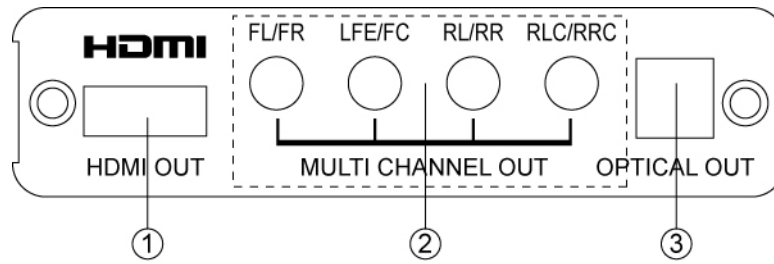
4. Operation Controls and Functions

4.1 Front Panel



- ① HDMI input: Connect the HDMI input port to the HDMI output port of your source equipment such as DVD player or set-top-box.
- ② Audio selection switch: To switch between Bitstream/LPCM7.1/5.1/LPCM2 channels.
Note: When switch to other audio mode, the display will disappear for few seconds. This is normal phenomenon for the system.
- ③ Power: Plug the 5VDC power supply into the unit and connect the adaptor to AC wall outlet.

4.2 Rear Panel



- ① HDMI output: Connect the HDMI output port to the HDMI input port of your display.
- ② Multi channel output: Connect the audio channel output to the input of your amplifier equipment and follow the amplifier connections.
 - FL: Front Left
 - FR: Front Right
 - LFE: Low Frequency Effect
 - FC: Front Center
 - RL: Rear Left
 - RR: Rear Right
 - RLC: Rear Left Center
 - RRC: Rear Right Center
- ③ Optical output: Connect Optical output to the display audio input or audio equipments for Dolby5.1/2 and LPCM2 channels.

5. Connection and Installation



6. Specifications

Input port	1 x HDMI
HDMI input audio format	LPCM 7.1, 5.1 or 2 channels and Bitstream (Dolby TrueHD, Dolby Digital Plus and DTS-HD Master Audio)
Output port	1 x HDMI
HDMI output audio format	LPCM 7.1, 5.1 or 2 channels and Bitstream (Dolby TrueHD, Dolby Digital Plus and DTS-HD Master Audio)
Multi channel output ports	4 x 3.5mm stereo phone jack
Multi channel output audio format	LPCM 7.1/5.1/2 channels
Optical output port	1 x Optical
Optical output audio format	Dolby 5.1/2 and LPCM 2 channels
Power Supply	5V/2.6A DC (US/EU standards, CE/FCC/UL certified)
Dimensions (mm)	100(W) x 147(D) x 25(H)
Chassis Material	Aluminum
Silk Skin Color	Black
Operating Temperature	Operating from 0°C ~ 40°C