HDMI to DVI + SPDIF(Coaxial) Converter

Operation Manual

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1. Introduction

This converter box is designed to convert video and audio signal from HDMI source to DVI plus Coaxial audio outputs. The product allows you to connect the HDMI source to a display with DVI input meanwhile extract digital audio signal from the same source to an audio receiver. The HDMI converter box also does signal amplification and equalization for incoming TMDS data before re-transmitting them with optimal quality regardless of the incoming signal quality. Therefore, its output could be connected to an HDMI device, with a DVI to HDMI cable or adapter, to be utilized as an HDMI repeater.

2. Features

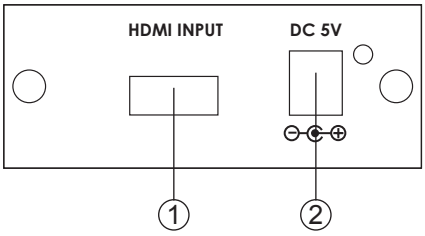
- HDMI 1.2, HDCP 1.1 and DVI 1.0 compliant.
- Supports HDMI input and DVI (or HDMI, using proper cable/adapter) with Coaxial output.
- Detects input format between digital RGB and YPbPr automatically.
- Supports input/output video resolutions up to UXGA (PC) or 1080p@60Hz (HDTV).
- Supports input/output digital audio signal of LPCM, Dolby Digital or DTS.
- Supports HDMI signal amplification and equalization.
- Easy to install and to operate.

3. Package Contents

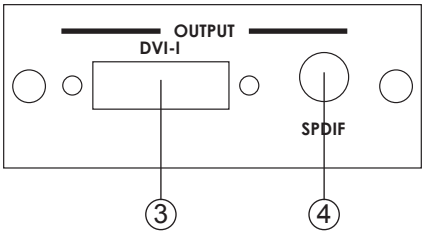
- HDMI to DVI + SPDIF(Coaxial) Converter
- 5V DC power supply adaptor
- Operation Manual

4. Operation Controls and Functions

4.1. Front Panel



4.2. Rear Panel



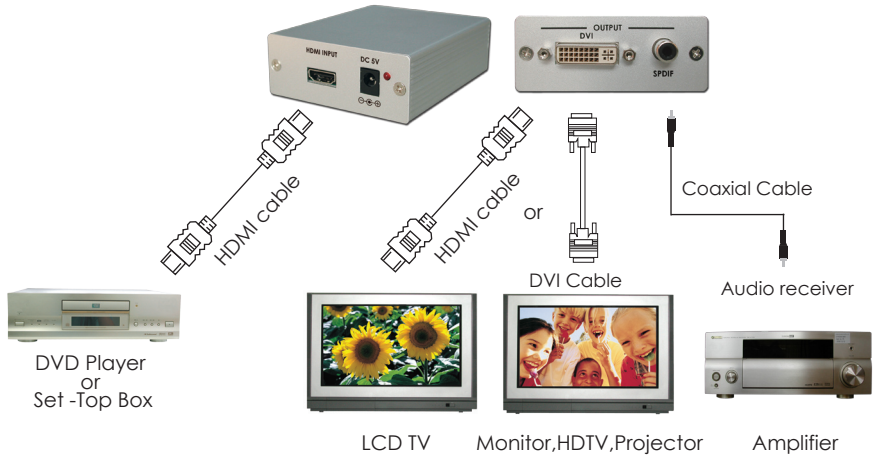
① HDMI Input: Connect the HDMI input port to the HDMI output port of your source equipment such as DVD player or set-top-box.

② Power Supply: Plug the 5VDC power supply into the unit and connect the adaptor to AC wall outlet.

③ DVI Output: Connect the DVI output port to the input port of your DVI display such as monitor or projector. Or, connect to the HDMI output port of your LCD TV, using DVI to HDMI cable or adapter. Note that this jack is of DVI-I type, but only DVI-D (digital video) signal will be supported.

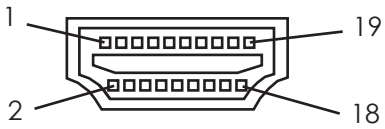
④ SPDIF(Coaxial) Output: Connect the Coaxial output port to the digital audio input port of your digital audio receiver.

5. Connection and Installation



6. Pin Configuration

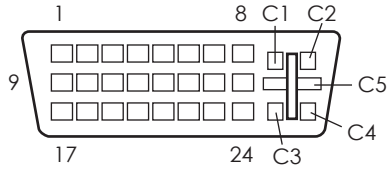
A. HDMI Input Pin Assignment



Pin#	Function Assignment	Pin#	Function Assignment
1	TMDS Data2+	2	TMDS Data2 Shield
3	TMDS Data2-	4	TMDS Data1+
5	TMDS Data1 Shield	6	TMDS Data1-
7	TMDS Data0+	8	TMDS Data0 Shield
9	TMDS Data0-	10	TMDS Clock+
11	TMDS Clock Shield	12	TMDS Clock-
13	CEC	14	Reserved (N.C. on device)
15	SCL	16	SDA
17	DDC/CEC Ground	18	+5V Power
19	Hot Plug Detect		

7. DVI-D Output Pin Assignment

DVI-Digital(DVI-D): Supports digital-only connections between the host computer and display. This interface is designed for a 12 or 24-pin connection to enable single or dual-link mode activation.



Digital only connector pin assignments					
Pin	**Signal Assignment**	**Pin**	**Signal Assignment**	**Pin**	**Signal Assignment**
1	T.M.D.S Data2-	9	T.M.D.S Data1-	17	T.M.D.S Data0-
2	T.M.D.S. Data2+	10	T.M.D.S. Data1+	18	T.M.D.S. Data0+
3	T.M.D.S. Data2 Shield	11	T.M.D.S. Data1 Shield	19	T.M.D.S. Data0 Shield
4	N.C.	12	N.C.	20	N.C.
5	N.C.	13	N.C.	21	N.C.
6	DDC Clock	14	+5V Power	22	T.M.D.S. Clock Shield
7	DDC Data	15	Ground (for +5V)	23	T.M.D.S. Clock+
8	No Connect	16	Hot Plug Detect	24	T.M.D.S. Clock-
C1	N.C.	C2	N.C.	C3	N.C.
C4	N.C.	C5	N.C.		

8. Specifications

Input port:	1 x HDMI
Output ports:	1 x DVI, 1 x SPDIF(Coaxial)
Power Supply:	5V/1A DC (US/EU standards, CE/FCC/UL certified)
Dimensions (mm):	105(W) x 76(D) x 30(H)
Weight(g):	188
Chassis Material:	Aluminum
Silkscreen Color:	Silver
Operating Temperature:	0°C ~ 40°C

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