DVI to HDMI Converter with Digital Audio ID# 728
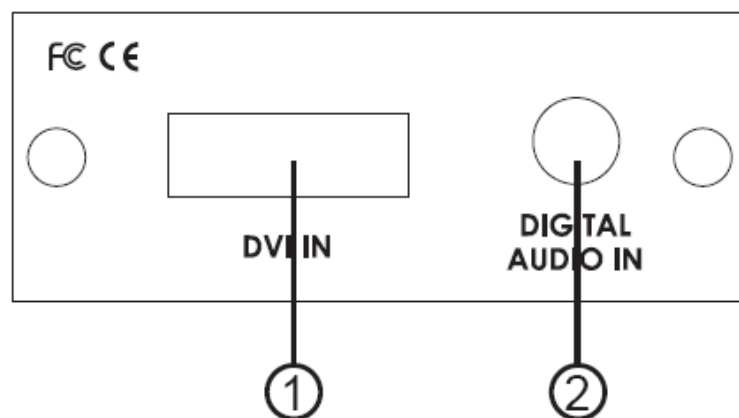

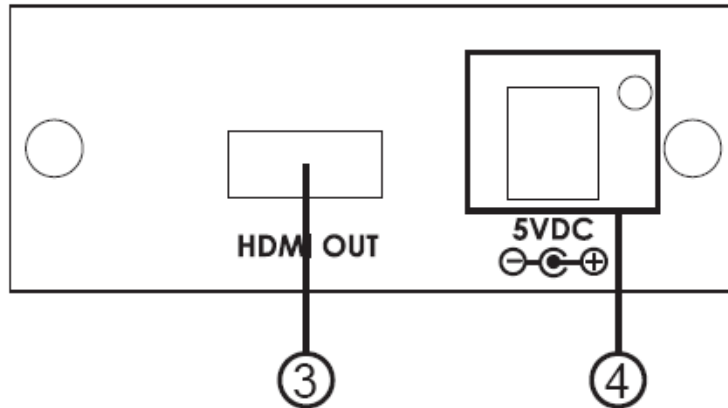## Operation Manual

Introduction

This converter box is converts DVI/Coaxial to HDMI output. It enables to connect the DVI source and digital audio to a HDMI digital display. This 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.

Features

1. HDMI 1.2, HDCP 1.1 and DVI 1.0 compliant.
2. Supports DVI/Coaxial input and HDMI output.
3. Input format auto detection: Digital RGB or YPbPr.
4. Coaxial input supports LPCM 2CH, Dolby Digital 5.1CH and DTS 5.1CH digital audio.
5. Full HDCP compliant.
6. Operation Frequency: 165MHz
7. Frequency Bandwidth: 1.65Gbps (single link).
8. Supports audio sampling frequencies: 32, 44.1 and 48kHz.
9. Supports high resolution input/output:
PC: VGA@60/72/75/85Hz, SVGA@60/72/75/85Hz,
XGA@60/70/75/85Hz, SXGA@60/75/85Hz, UXGA@60Hz.
SD/HD: 480i/p@60Hz, 576i/p@50Hz, 720p@50/60Hz, 1080i@50/60Hz and 1080p@24/50/60Hz.
10. Easy to install and to operate.
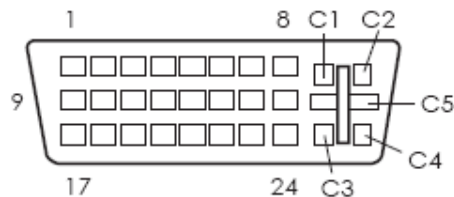
Operating Functions and Controls

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1. DVI input: Connect the DVI input port to the DVI output port of your source equipment such as DVD player or set-top-box. It supports only DVI-D signal via a DVI-I connector.
2. Coaxial input: Connect the Coaxial input port to the audio output of your digital audio equipment.
3. HDMI output: Connect the HDMI output port to the HDMI input port of your HDMI display.
4. Power: Plug the 5VDC power supply into the unit and connect the adaptor to AC wall outlet.
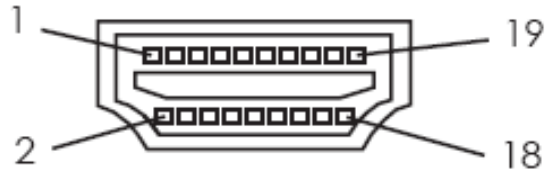
Pin Configuration

A. DVI-D Input Pin Assignment

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.				

B. HDMI Output 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		

Specifications

Input ports	1 x DVI (only DVI-D supported) , 1 x Coaxial (S/PDIF)
Output port	1 x HDMI
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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