NETWORK TECHNOLOGIES INCORPORATED
1275 Danner Dr Tel:330-562-7070
Aurora, OH 44202 Fax:330-562-1999
www.networktechinc.com

DVI-HD-CNVTR

DVI w/digital audio to HDMI Converter

The DVI-HD-CNVTR combines your digital video (DVI) and audio (SPDIF) input and converts it to HDMI output. It adds the HDMI output cpability to your DVI sources so new HDMI TVs can be used with your DVI sources with sound.

Operation Manual

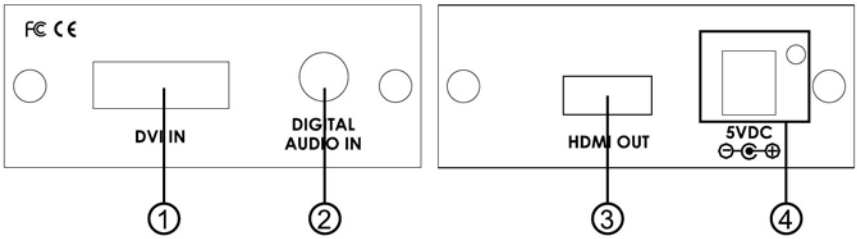
This package includes:

- One DVI-HD-CNVTR
- One switching power supply.
- User manual.

Features:

* Combines your digital A/V signal and converts it to HDMI output format.
* Adds the HDMI output capability to your DVI sources such as PC or DVD player.
* Input format auto detection: Digital RGB or YPbPr.
* HDCP compliant.
* Plug and play, easy to install.

Operation Controls and Functions



1. DVI input: Connects to the DVI output connector of your source equipment.
2. Digital audio (SPDIF) input: Connects to the digital audio output of your source equipment.
3. HDMI output: Connects to the HDMI input connector of your HDMI display or swticher.
4. Power input: Plug the supplied 5V DC power supply into the unit and the LED will illuminate when the power is connected.

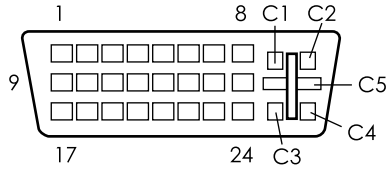
Specifications:

* Digital video input: DVI-I connector (but DVI-D input signal only)
* Digital audio input: Coaxial (SPDIF)
* HDMI output: 19-pin HDMI connector
* Compliant with DVI 1.0 & HDMI 1.2
* HDCP is compliant with HDCP 1.1 and downward compatible with HDCP 1.0
* Operation frequency: Up to 165 MHz
* Frequency bandwidth: 1.65Gbps(single link)
* Input/Output resolutions:
  PC: VGA@60/72/75/85Hz, SVGA@60/72/75/85Hz, XGA@60/70/75/85/87Hz, SXGA@60/75/85Hz, UXGA@60Hz, 1152@70/75/85Hz
  HDTV: 480p@60Hz, 576@50Hz, 720p@50/60Hz, 1080i@50/60Hz 1080p@24/25/30/50/60Hz
* Dimensions: 105(W) x 76(D) x 30(H)mm
* Power: 5V 1A center-positive

Pin Configuration

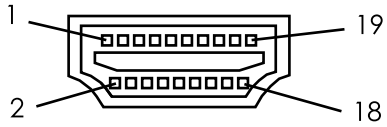
A. DVI-D Input Pin Assignment

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.		

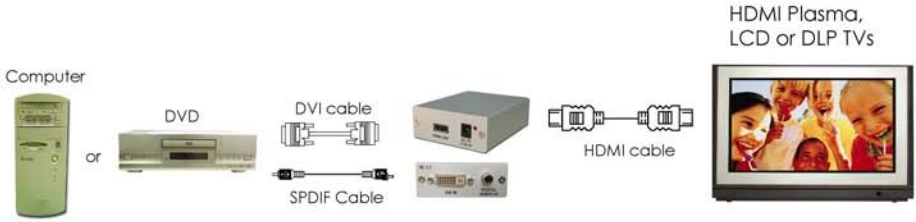
B. HDMI Output Pin Assignment



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		

Connection and Installation

(1) HDMI display



(2) HDMI switcher