

DVI and Digital Audio to HDMI Converter

DVI2HDMI

Instruction Manual



CONVERGEAV

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FCC Compliance Statement

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- = Reorient or relocate the receiving antenna.
- = Increase the separation between the equipment and receiver.
- = Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- = Consult the dealer or an experienced radio/TV technician for help.

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Introduction

Thank you for purchasing a StarTech.com DVI2HDMI DVI and Digital Audio to HDMI Converter. Offering convenient conversion of digital video (DVI) and digital audio (digital coaxial) to HDMI, this device eliminates cable clutter, while providing top quality digital content.

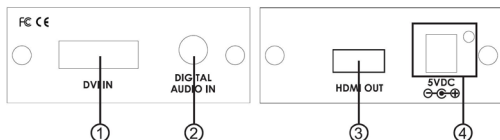
Features

- = Provides signal amplification and equalization for incoming TMDS data to ensure optimal signal quality
- = Supports resolutions up to 1920x1200 or 1080p input and output
- = Supports two channel stereo, dolby digital 5.1, and DTS 5.1 sound input and output

Package Contents

- = 1 x DVI to HDMI Converter
- = 1 x Instruction Manual
- = 1 x Power Adapter

Operating Controls & Functions



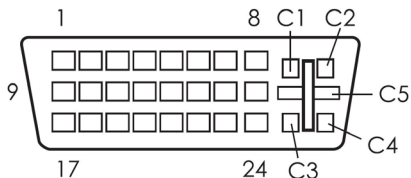
- 1. DVI Input:** Connects to the DVI output connector of your source equipment.
- 2. Digital Audio (SPDIF) input:** Connects to the digital audio output of your source equipment.
- 3. HDMI Output:** Connects to the HDMI input connector of your HDMI Display or Switcher.
- 4. Power Input:** Plug the supplied 5V DC Power Supply into the unit, the LED will illuminate when the power is connected.



Digital Video Input	DVI-I Connector (DVI-D input signal only)
Digital Audio Input	Coaxial (SPDIF)
HDMI Output	19-pin HDMI Connector
HDCP Version	HDCP 1.1, 1.0
Operation Frequency	Up to 165 Mhz
Frequency Bandwidth	1.65Gbps (single-link)
Input/Output Resolutions	<p>PC</p> <p>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</p> <p>HDTV</p> <p>480p@60Hz 576@50Hz 720p@50/60Hz 1080i@50/60Hz 1080p@24/25/30/50/60Hz</p>
Dimensions	105(W) x 76(D) x 30(H)mm 22 x 3 x 1.18
DVI Compliance	DVI 1.0
HDCP Compliant	HDCP 1.1
HDMI Compliant	HDMI 1.2
Input Connectors	1 x DVI-I (only supports DVI-D signal) 1 x Digital Coaxial RCA Female (supports two channel stereo, dolby digital 5.1, and DTS 5.1)
Output Connector	1 x HDMI
Bandwidth	1.65Gbps (single link)
Frequency	165 MHz
Power	5V 1A Center Positive



DVI-D Input Pin Assignment

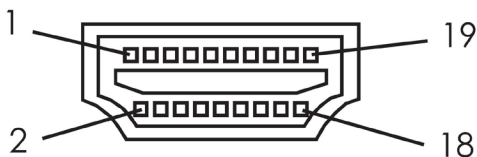


DVI-Digital: Supports digital-only connections between the host computer and display. This interface is designed for a 12 or 24-pin connection to enable single or dual-link mode activation

Digital Only Connector Pin Assignments

Pin	Signal Assignment	Pin	Signal Assignment	Pin	Signal Assignment
1	T.M.D.S Data 2-	9	T.M.D.S Data 1-	17	T.M.D.S Data 0-
2	T.M.D.S Data 2+	10	T.M.D.S Data 1+	18	T.M.D.S Data 0+
3	T.M.D.S Data 2 Shield	11	T.M.D.S Data 1 Shield	19	T.M.D.S Data 0 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	N.C.	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.		

HDMI Output Pin Assignment



Digital Only Connector Pin Assignments

Pin	Function Assignment	Pin	Function Assignment
1	T.M.D.S Data 2+	2	T.M.D.S Data 2 Shield
3	T.M.D.S Data 2-	4	T.M.D.S Data 1+
5	T.M.D.S Data 1 Shield	6	T.M.D.S Data 1-
7	T.M.D.S Data 0+	8	T.M.D.S Data 0 Shield
9	T.M.D.S Data 0-	10	T.M.D.S Clock+
11	T.M.D.S Clock Shield	12	T.M.D.S 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

The following images depict typical installation of the DVI2HDMI unit:

Straight Connection to Display



- 1 - **Source Device** (e.g. DVD Player, Computer)
- 2 - **DVI Cable** (from source to DVI2HDMI DVI IN port)
- 3 - **SPDIF Cable** (from source to DVI2HDMI Digital Audio In port)
- 4 - **HDMI Cable** (from DVI2HDMI HDMI OUT port) to Display
- 5 - **HDTV/Display**

Connection Using an HDMI Switch



- 1 - **Source Device** (e.g. DVD Player, Computer)
- 2 - **DVI Cable** (from source to DVI2HDMI DVI IN port)
- 3 - **SPDIF Cable** (from source to DVI2HDMI Digital Audio In port)
- 4 - **HDMI Cable** (from DVI2HDMI HDMI OUT port) to Display
- 5 - **HDTV/Display**
- 6 - **HDMI Cable**
- 7 - **HDTV/Display**

Technical Support

StarTech.com's lifetime technical support is an integral part of our commitment to provide industry-leading solutions. If you ever need help with your product, visit www.startech.com/support and access our comprehensive selection of online tools, documentation, and downloads.

Warranty Information

This product is backed by a one year warranty.

In addition, StarTech.com warrants its products against defects in materials and workmanship for the periods noted, following the initial date of purchase. During this period, the products may be returned for repair, or replacement with equivalent products at our discretion. The warranty covers parts and labor costs only. StarTech.com does not warrant its products from defects or damages arising from misuse, abuse, alteration, or normal wear and tear.

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