

DVI Equalizer

Converge A/V DVI Equalizer

DVIEQ

Instruction Manual



Actual product may vary from photo

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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Table of Contents

Introduction	1
Features	1
System Requirements	1
Package Contents	1
Operating Controls and Functions	2
DVI Pin Configuration	2
Installation	3
Specifications	4
Technical Support	4
Warranty Information	4

Introduction

Thank you for purchasing a StarTech.com Converge A/V DVI Equalizer. Designed to provide optimized signal equalization, DVIEQ helps eliminate digital noise to ensure high quality, HD resolutions up to UXGA/1080p even over distances that exceed normal limits between the signal source and intended display.

Features

- HDCP compliant
- Maintains high DVI single link video resolution up to UXGA/1080p
- Provides 8dB input equalization to compensate for cable transmission loss
- Simple plug and play installation
- Maximum extension distance of 40 metres

System requirements:

- A DVI video source
- A DVI capable display
- Standard DVI cable (for connection from source to equalizer, as well as equalizer to display)
- An available power outlet

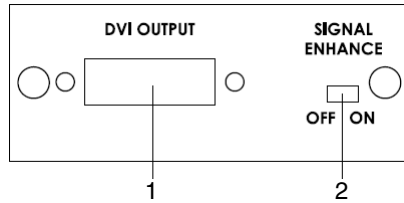
Package contents:

This package should contain:

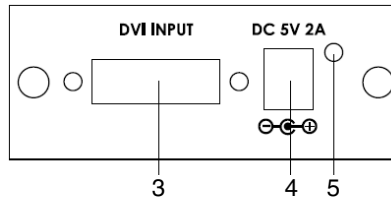
- 1 X 5V DC Power Adapter
- 1 X DVI Equalizer
- 1 X Instruction Manual

Operating Controls and Functions

Rear Panel



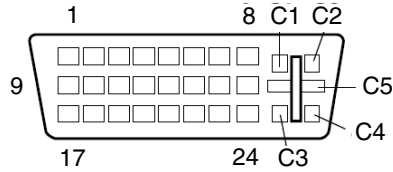
Front Panel



- 1 - DVI Output
- 2 - Signal Enhance Function ON/OFF - Press this button for long distance signal enhancement
- 3 - DVI Input
- 4 - DC Power Port
- 5 - Power LED

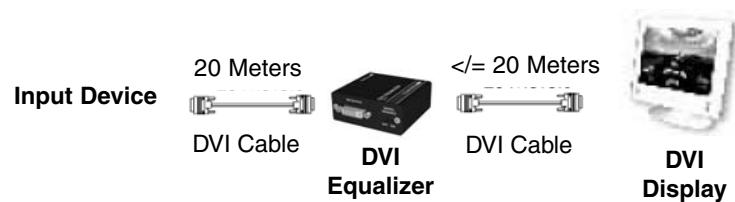
DVI Pin Configuration

The DVI-I interface supports both digital and analog connections to the display. This 29 pin connector can carry single or dual-link all-digital video/data signals and ground.



Combined Analog and Digital 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 2/4 Shield	11	T.M.D.S Data 1/3 Shield	19	T.M.D.S Data 0/5 Shield
4	T.M.D.S Data 4-	12	T.M.D.S Data 3-	20	T.M.D.S Data 5-
5	T.M.D.S Data 4+	13	T.M.D.S Data 3+	21	T.M.D.S Data 5+
6	DDC Clock	14	+5V Power	22	T.M.D.S Clock Shield
7	DDC Data	15	Ground (Return for +5V, HSync and VSync)	23	T.M.D.S Clock +
8	Analog Vertical Sync	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.		

Installation



1. Remove power from the signal source and display.
2. Locate DVIEQ such that it is near an available power outlet.
3. Connect DVIEQ to a nearby power outlet, using the power adapter provided.
4. Connect the signal source to the DVIEQ DVI INPUT port, using standard DVI-I cable.
Please note that if you are using cables of differing length, the longer of the two cables (up to 20m) is used to connect the input source to the equalizer, for a total extension distance between host and display of 40 metres
5. Connect the DVIEQ DVI OUTPUT port to the display using standard DVI-I cable.
6. Restore power to the signal source and display.
7. If necessary, activate the Signal Enhance function.

Specifications

Operating Frequency	Up to 165MHz
DVI Data Transmission Rate	1.65Gbps (single link)
Input/Output Resolutions	PC: VGA, SVGA, XGA, SXGA, UXGA up to 165MHz HD: 480i/576i, 480p/576p, 720p, 1080i, 1080p
Power	5V 2A Center-positive
Maximum Distance	40 Metres

Technical Support

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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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