

HDMI Equalizer

Converge A/V HDMI Equalizer

HDMIEQ

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
HDMI Pin Configuration	2
Installation	3
Specifications	4
Technical Support	4
Warranty Information	4

Introduction

Thank you for purchasing a StarTech.com Converge A/V HDMI Equalizer. Designed to provide optimized signal equalization, HDMIEQ 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 at distances of up to 40 metres from signal source to display.

Features

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

System requirements:

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

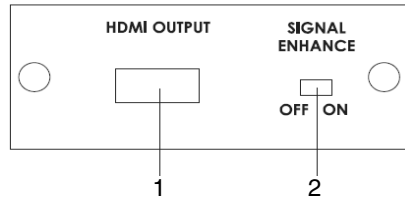
Package contents:

This package should contain:

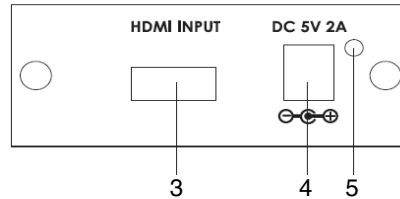
- 1 X 5V DC Power Adapter
- 1 X HDMI Equalizer
- 1 X Instruction Manual

Operating Controls and Functions

Rear Panel



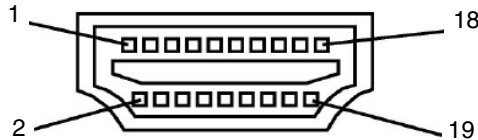
Front Panel



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

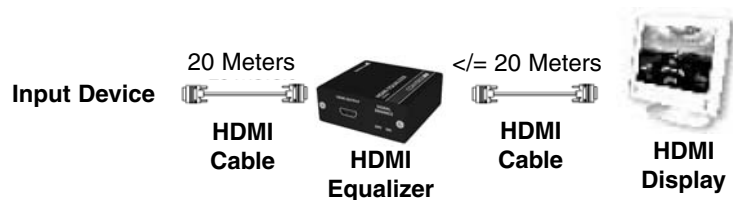
HDMI Pin Configuration

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	Function Assignment	Pin	Function Assignment
1	T.M.D.S Data2+	2	T.M.D.S Data2 Shield
3	T.M.D.S Data2-	4	T.M.D.S Data1+
5	T.M.D.S Data1 Shield	6	T.M.D.S Data1-
7	T.M.D.S Data0+	8	T.M.D.S Data0 Shield
9	T.M.D.S Data0-	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		

Installation



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

Specifications

Operating Frequency	Up to 165MHz
HDMI 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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