HDMI Equalizer
Converge A/V HDMI Equalizer

Actual product may vary from photo
**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.

**Use of Trademarks, Registered Trademarks, and other Protected Names and Symbols**

This manual may make reference to trademarks, registered trademarks, and other protected names and/or symbols of third-party companies not related in any way to StarTech.com. Where they occur these references are for illustrative purposes only and do not represent an endorsement of a product or service by StarTech.com, or an endorsement of the product(s) to which this manual applies by the third-party company in question. Regardless of any direct acknowledgement elsewhere in the body of this document, StarTech.com hereby acknowledges that all trademarks, registered trademarks, service marks, and other protected names and/or symbols contained in this manual and related documents are the property of their respective holders.
# 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
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

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

Front Panel

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

<table>
<thead>
<tr>
<th>Pin</th>
<th>Function Assignment</th>
<th>Pin</th>
<th>Function Assignment</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>T.M.D.S Data2+</td>
<td>2</td>
<td>T.M.D.S Data2 Shield</td>
</tr>
<tr>
<td>3</td>
<td>T.M.D.S Data2-</td>
<td>4</td>
<td>T.M.D.S Data1+</td>
</tr>
<tr>
<td>5</td>
<td>T.M.D.S Data1 Shield</td>
<td>6</td>
<td>T.M.D.S Data1-</td>
</tr>
<tr>
<td>7</td>
<td>T.M.D.S Data0+</td>
<td>8</td>
<td>T.M.D.S Data0 Shield</td>
</tr>
<tr>
<td>9</td>
<td>T.M.D.S Data0-</td>
<td>10</td>
<td>T.M.D.S Clock+</td>
</tr>
<tr>
<td>11</td>
<td>T.M.D.S Clock Shield</td>
<td>12</td>
<td>T.M.D.S Clock-</td>
</tr>
<tr>
<td>13</td>
<td>CEC</td>
<td>14</td>
<td>Reserved (N.C. on device)</td>
</tr>
<tr>
<td>15</td>
<td>SCL</td>
<td>16</td>
<td>SDA</td>
</tr>
<tr>
<td>17</td>
<td>DDC/CEC Ground</td>
<td>18</td>
<td>+5V Power</td>
</tr>
<tr>
<td>19</td>
<td>Hot Plug Detect</td>
<td>19</td>
<td></td>
</tr>
</tbody>
</table>
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.
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.

Limitation of Liability

In no event shall the liability of StarTech.com Ltd. and StarTech.com USA LLP (or their officers, directors, employees or agents) for any damages (whether direct or indirect, special, punitive, incidental, consequential, or otherwise), loss of profits, loss of business, or any pecuniary loss, arising out of or related to the use of the product exceed the actual price paid for the product. Some states do not allow the exclusion or limitation of incidental or consequential damages. If such laws apply, the limitations or exclusions contained in this statement may not apply to you.
About StarTech.com

StarTech.com is “The Professionals’ Source for Hard-to-Find Computer Parts”. Since 1985, we have been providing IT professionals with the quality products they need to complete their solutions. We offer an unmatched selection of computer parts, cables, server management solutions and A/V products and serve a worldwide market through our locations in the United States, Canada, the United Kingdom and Taiwan.

Visit www.startech.com for complete information about all our products and to access exclusive interactive tools such as the Parts Finder and the KVM Reference Guide. StarTech.com makes it easy to complete almost any IT solution. Find out for yourself why our products lead the industry in performance, support, and value.