



# RE-PI

## HDMI Power Inserter

OPERATION MANUAL



## • **Safety Precautions**

Please read all instructions before attempting to unpack or install or operate this equipment, and before connecting the power supply. Please keep the following in mind as you unpack and install this equipment:

- Always follow basic safety precautions to reduce the risk of fire, electrical shock and injury to persons.
- To prevent fire or shock hazard, do not expose the unit to rain, moisture or install this product near water.
- Never spill liquid of any kind on or into this product.
- Never push an object of any kind into this product through module openings or empty slots, as you may damage parts.
- Do not attach the power supply cabling to building surfaces.
- Do not allow anything to rest on the power cabling or allow it to be abused by persons walking on it.
- To protect the equipment from overheating, do not block the slots and openings in the module housing that provide ventilation.

## • **Revision History**

| <b><i>Version No</i></b> | <b><i>Date</i></b>     | <b><i>Summary of Change</i></b>          |
|--------------------------|------------------------|--|
| <b><i>VR0</i></b>        | <b><i>20110718</i></b> | <b><i>Preliminary Release</i></b>        |
| <b><i>VR1</i></b>        | <b><i>20111012</i></b> | <b><i>Add HDMI Enhancer in Sec.8</i></b> |

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## **1. Introduction**

The HDMI Power Main allows users to add extra power to HDMI connections. When cascading video over long distances, or when the source device (such as a DVD/Blu Ray player or PS3) cannot provide enough power, you often get confused about what to do, because without enough power your video signal will not be stable and you cannot increase your operating distance. The HDMI Power Main can solve this by providing up to 5V/2A of power to HDMI devices like scalars, splitters or .the HDMI CDR with Equalizer, so you can have a stable device that helps solve HDMI power issues.

## **2. Applications**

- Installation usage
- HDMI signal cascading

## **3. Package Contents**

- HDMI Power Main
- 5V/2.6A Power adaptor
- Operation Manual

## **4. System Requirements**

HDMI input port connected to the source/HDMI system's HDMI output and output port connected to the HDMI display system's HDMI port or cascade with another family device to extend the distance.

## **5. Features**

- Provides extra power to HDMI output while disconnecting the power supply from the HDMI input without interrupting the original HDMI signal
- Supports up to 5V/2A
- Over current protection
- Compact and easy to use
- HDMI input and output cable distance support a total maximum length of 16M with 8bit and 10M with 12bit

### **Notes:**

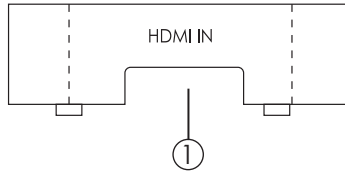
Depending on input source equipment's HDMI signal, output HDMI cable distance may have less or equivalent performance.

## 6. Specifications

|                       |  |
|-----------------------|--|
| Input Port            | 1 x HDMI (Female type)   |
| Output port           | 1 x HDMI (Female type)   |
| Input Cable Distance  | 1080p 8bit (8M), 12bit (5M)  |
| Output Cable Distance | 1080p 8bit (8M), 12bit (5M)  |
| ESD Protection        | Human Body model: $\pm 8\text{kV}$ (air-gap discharge)<br>$\pm 4\text{kV}$ (contact discharge) |
| Dimensions (mm)       | 46(W) x 45.5(D) x 23.5(H)  |
| Weight(g)             | 30   |
| Chassis Material      | Plastic  |
| Silkscreen Color      | Black  |
| Operating Temperature | 0°C~40°C / 32°F ~ 104°F  |
| Storage temperature   | -20°C~60°C / -4°F ~ 140°F  |
| Relative Humidity     | 20~90% RH (no condensation)  |
| Power Consumption (W) | 0.25~10 (Max)  |
| Output Total Power    | 12W (Max)  |

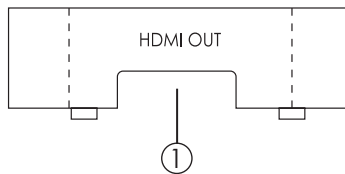
## 7. Operation Controls and Functions

### 7.1 Left Panel



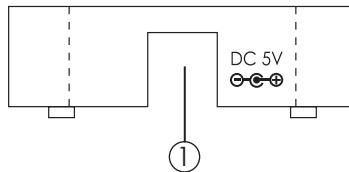
- ① HDMI input: Connect the HDMI input port to the HDMI output port of your source equipment such as HDMI switcher/HDMI Splitter/HDMI Matrix.

### 7.2 Right Panel



- ① HDMI output: Connect the HDMI output port to the HDMI input port of your HDMI transmitter box or display to support the shortage of the power from the source.

### 7.3 Front Panel



- ① DC 5V: This slot is to plug with the 5V DC power supply into the unit and connect the adaptor to an AC wall outlet.

# 8. Connection and Installation

## HDMI Source (without 5V power over HDMI)

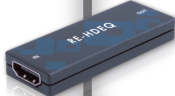


HDMI (1m)



RE-PI

HDMI  
(Up to 15m)



RE-HDEQ

HDMI  
(Up to 15m)



Display

# Acronyms

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| <b>Acronym</b> | <b>Complete Term</b>                 |
|----------------|--------------------------------------|
| HDMI           | High-Definition Multimedia Interface |





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