

geratech<sup>®</sup>



# EGE-CS-PM

## HDMI Power Inserter





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**SAFETY PRECAUTIONS**

Please read all instructions before attempting to unpack, 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 any openings or empty slots in the unit, as you may damage parts inside the unit.
- Do not attach the power supply cabling to building surfaces.
- Use only the supplied power supply unit (PSU). Do not use the PSU if it is damaged.
- Do not allow anything to rest on the power cabling or allow any weight to be placed upon it or any person walk on it.
- To protect the unit from overheating, do not block any vents or openings in the unit housing that provide ventilation and allow for sufficient space for air to circulate around the unit.

VERSION NO.	DATE DD/MM/YY	SUMMARY OF CHANGE
VS1	06/11/12	First Release

## CONTENTS

<b>1. INTRODUCTION .....</b>	<b>1</b>
<b>2. APPLICATIONS .....</b>	<b>1</b>
<b>3. PACKAGE CONTENTS .....</b>	<b>1</b>
<b>4. SYSTEM REQUIREMENTS .....</b>	<b>1</b>
<b>5. FEATURES .....</b>	<b>1</b>
<b>6. OPERATION CONTROLS AND FUNCTIONS .....</b>	<b>2</b>
<b>6.1 Left Panel .....</b>	<b>2</b>
<b>6.2 Right Panel.....</b>	<b>2</b>
<b>6.3 Front Panel.....</b>	<b>2</b>
<b>7. CONNECTION DIAGRAM .....</b>	<b>3</b>
<b>8. SPECIFICATIONS.....</b>	<b>4</b>
<b>9. ACRONYMS.....</b>	<b>4</b>



## 1. INTRODUCTION

The HDMI Power Inserter 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 Set-top Box) cannot provide enough power, you are often left with a degraded signal because, without enough power, your video signal will not be stable and you cannot increase your operating distance. The HDMI Power Inserter can solve this by providing up to 5 V/2 A of power to HDMI devices like scalers, splitters or it can power an HDMI Enhancer (with built-in HDMI CDR and equalizer) to stabilize the signal and help to solve HDMI power issues.

## 2. APPLICATIONS

- Installation usage
- HDMI signal cascading
- Extending HDMI cable distance
- HDMI signal stabilization

## 3. PACKAGE CONTENTS

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

## 4. SYSTEM REQUIREMENTS

HDMI equipped source device and an HDMI equipped display (TV or monitor) or cascade with another HDMI device to extend the distance.

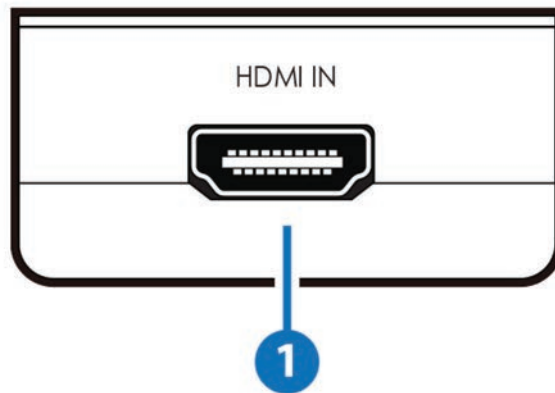
## 5. FEATURES

- Provides extra power to an HDMI output while safely disconnecting the original power supply from the HDMI input without interrupting the original HDMI signal
- Supports up to 5 V/2 A
- Over current protection
- Compact and easy to use
- Maximum total input and output cable lengths supported are 16 meter at 8-bit and 10 meter at 12-bit color depth

**Note:** Cable distances may vary according to the quality of the source equipment's HDMI signal.

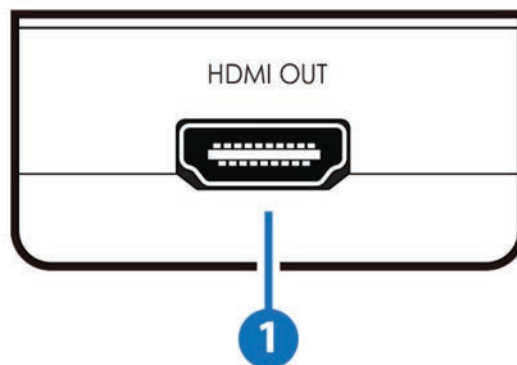
## 6. OPERATION CONTROLS AND FUNCTIONS

### 6.1 Left Panel



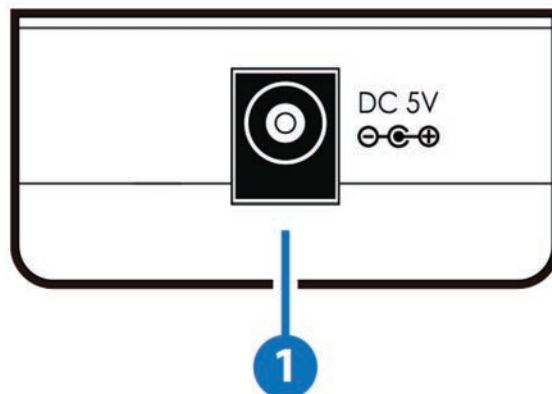
- 1 **HDMI IN:** Connect to the HDMI source equipment such as a Blu-ray player or an HDMI switcher/HDMI Splitter/HDMI Matrix.

### 6.2 Right Panel



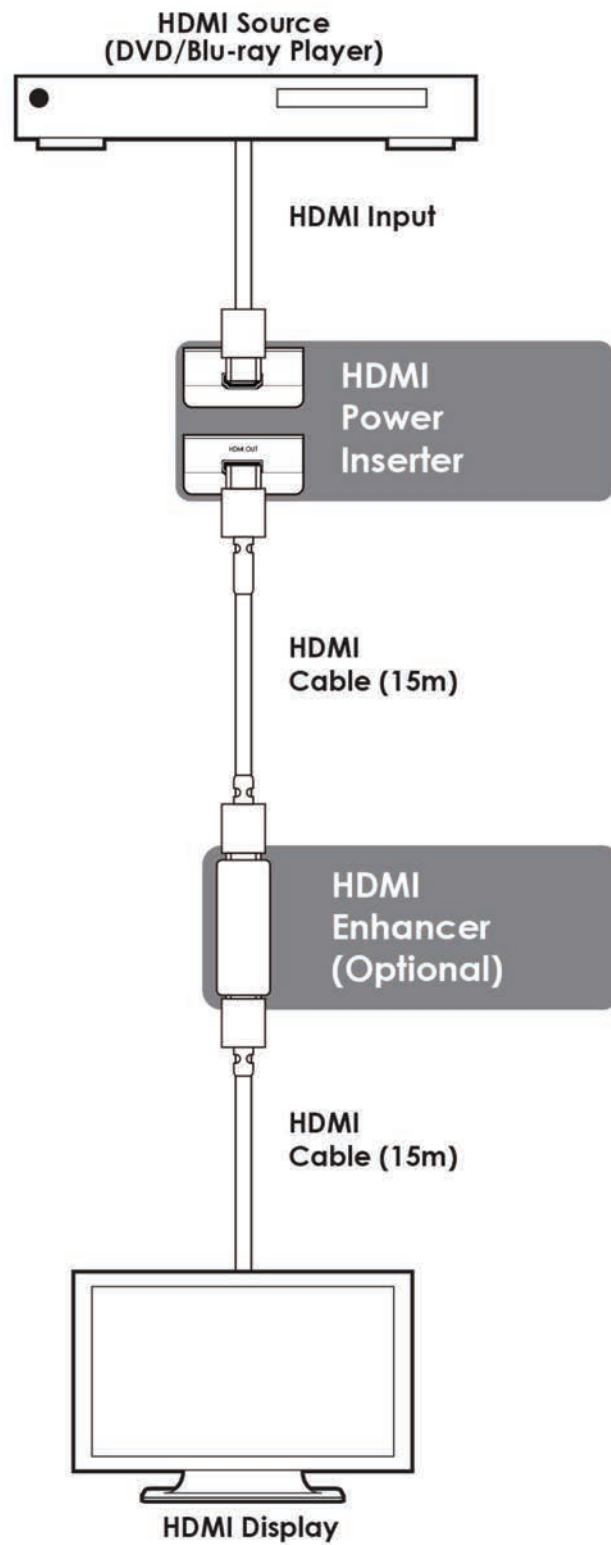
- 1 **HDMI OUT:** Connect to your HDMI transmitter box or display to overcome the shortage of the power from the source.

### 6.3 Front Panel



- 1 **DC 5V:** Connect to the 5V DC power supply into the unit and plug the adaptor to an AC wall outlet.

## 7. CONNECTION DIAGRAM





## 8. SPECIFICATIONS

<b>Input Port</b>	1×HDMI (Female connector)
<b>Output Port</b>	1×HDMI (Female connector)
<b>Input Cable Distance</b>	8 m/1080p@8-bit 5 m/1080p@12-bit
<b>Output Resolution</b>	480p ~ 1080p, VGA ~ WUXGA
<b>Output Cable Distance</b>	8 m/1080p@8-bit 5 m/1080p@12-bit
<b>ESD Protection</b>	Human Body model: ±8 kV (air-gap discharge) ±4 kV (contact discharge)
<b>Dimensions</b>	46 mm (W)×45.5 mm (D)×23.5 mm (H)
<b>Weight</b>	30 g
<b>Chassis Material</b>	Plastic
<b>Silkscreen Color</b>	Black
<b>Operating Temperature</b>	0 °C~40 °C/32 °F~104 °F
<b>Storage temperature</b>	-20 °C~60 °C/-4 °F~140 °F
<b>Relative Humidity</b>	20~90% RH (no condensation)
<b>Power Consumption</b>	0.25 W~10 W (Max)
<b>Output Total Power</b>	12 W (Max)

## 9. ACRONYMS

ACRONYM	COMPLETE TERM
CDR	Clock Rate Recovery
HDMI	High Definition Multimedia Interface
TMDS	Transition-minimized Differential Signaling





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