geratech®

EGE-UHD2-144

1x4 HDMI 4K UHD Splitter with HDCP 2.2

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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.

REVISION HISTORY

VERSION NO.	DATE DD/MM/YY	SUMMARY OF CHANGE
VR0	18/06/15	Preliminary Release

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1. INTRODUCTION

This 1 by 4 HDMI Splitter with HDCP 2.2 is an advanced solution for splitting a single HDMI input to four HDMI outputs. It provides high performance audio and video output through HDMI cables up to 4K2K@60Hz_YUV420 resolution and is capable of receiving and transmitting up to 9Gbps of bandwidth with no data loss. Supporting the latest features you can be assured of reliable and high quality HDMI distribution.

2. APPLICATIONS

- Home entertainment
- Showroom display
- Educational demo
- Commercial advertisement

3. PACKAGE CONTENTS

- 1 By 4 HDMI Splitter
- 5V/2.6A Power Adaptor
- Operational Manual

4. SYSTEM REQUIREMENTS

Input source equipment such as DVD/Blu-ray player and output HD display/Monitor with HDMI cables.

5. FEATURES

- HDMI (with 3D & 4K2K supported) and HDCP2.2 compliant
- Supports HDTV resolutions up to 4Kx2K (3840x2160@24/25/30, 3840x2160@50/60 YUV_420 & 4096x2160@24/25/30, 4096x2160@50/60 YUV_420) and PC resolutions up to WUXGA@60Hz(RB)
- Supports HDMI data rate up to 9Gbps and ‘Deep Color’ up to 1080p/36-bit
- Supports simultaneous outputs on four HDMI
- Supports pass-through of audio formats: LPCM 2/5.1/7.1CH, Dolby Digital 2~5.1CH, DTS Surround, Dolby Digital Plus, Dolby TrueHD, Dolby Atmos and DTS-HD Master Audio
- Supports EDID selection functions

6. OPERATION CONTROLS AND FUNCTIONS

6.1 Front Panel

1. **POWER LED:** This LED will illuminate in green when the device is power On.

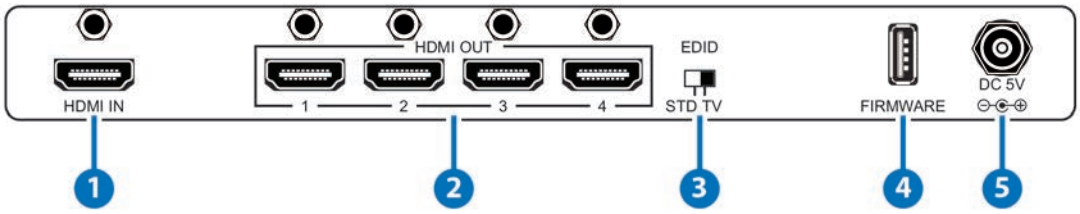
2. **SYNC IN:** This LED will illuminate when the device is connected with active source signal.

3. **HDCP 2.2 IN:** This LED will illuminate when the input source signal is with HDCP 2.2 encrypted.

4. **SYNC LED 1~4:** These LEDs will illuminate when the output detect 5V from display TV/ monitors.

5. **HDCP 2.2 LED 1~4:** These LEDs will illuminate when the output HDMI display are in the HDCP 2.2 handshaking status.

6.2 Rear Panel



1. **HDMI IN:** Connect from source equipment such as Blu-ray/DVD/PS3 players, Set-Top-Box or any HDMI equipped source device for input signal sending.

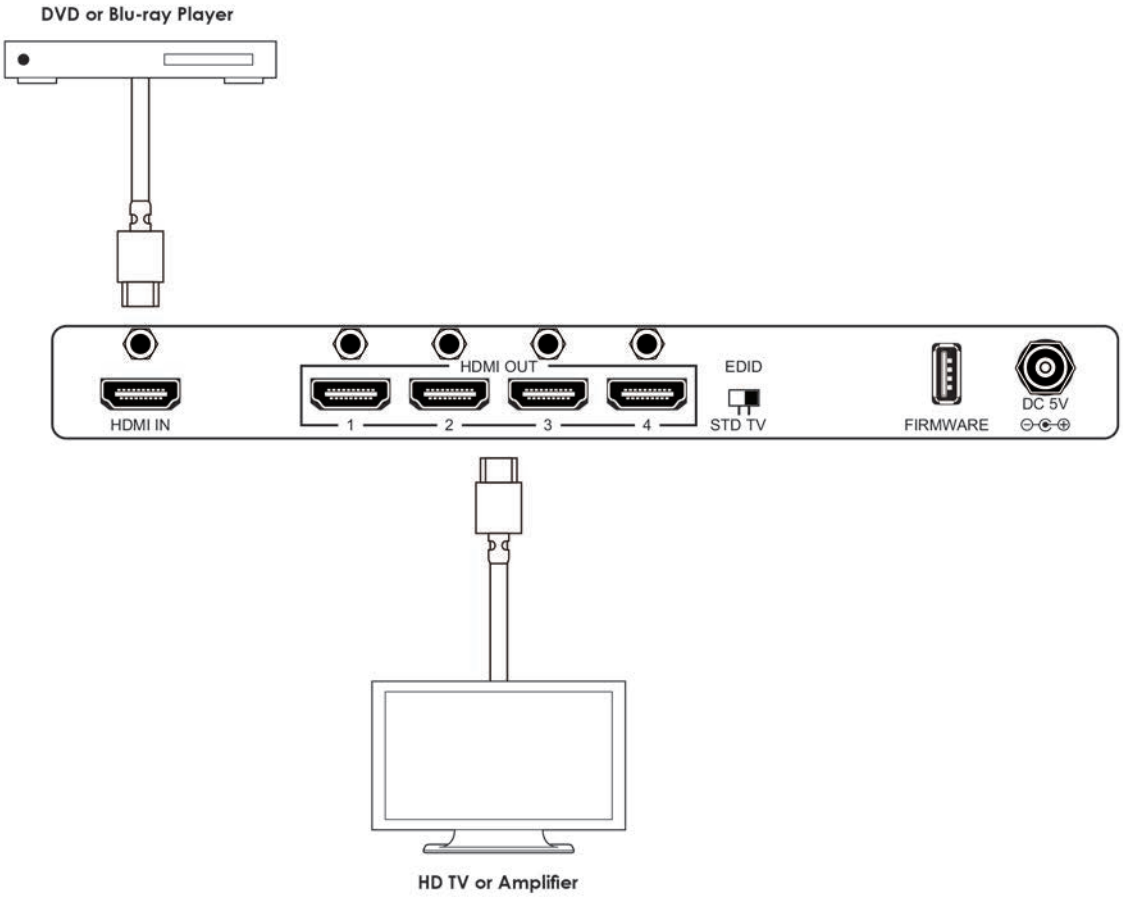
2. **HDMI OUT 1~4:** Connect to HDMI TV/display or HD Amplifier for output image and or audio display.

3. **EDID STD/TV:** Switch this switch to set HDMI EDID's setting. Switch to TV mode allows the device to detect HDMI OUT 1's EDID. For example, when input source support 4K2K contents and output 1 also connected with 4K2K display. The device will send 4K2K contents to output 1~4 however, if output 2~4 are connected to non-4K2K TV/monitor then port 2~4 may have no image display therefore, to ensure all outputs obtain image display OUT 2~4's EDID must obtain the equivalent EDID to OUT 1. Switch to STD mode the EDID will support 1080p for video and PCM 2CH for audio.

4. **FIRMWARE:** This slot is reserved for firmware update use only.

5. **DC 5V:** Connect the adaptor included in the package and connect to AC wall outlet for power supply.

7. CONNECTION DIAGRAM



8. SPECIFICATIONS

Video Bandwidth	300MHz / 9Gbps
Input Ports	1 x HDMI 1 x USB (Service only)
Output ports	4 x HDMI
HDMI I/O Cable	10M/1080p
Distance	5M/4K2K
Power Supply	DC 5V/2.6A (US/EU standards, CE/FCC/UL certified)
ESD Protection	Human body model: ±8kV (air-gap discharge) ±4kV (contact discharge)
Dimensions	220mm (W) x 121mm (D) x 27mm (H)/Jacks Excluded 220mm (W) x 127.25mm (D) x 28.3mm (H)/Jacks Included
Weight	368g
Chassis Material	Metal
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	5.83w

DVI and HDMI Supported Resolutions	Input	Output
640x480@60/72/75	v	v
720x480@60	v	v
720x576p@50	v	v
800x600@60/72/75	v	v
1024x768@60/70/75	v	v
1280x720@50/60	v	v
1280x720p@60	v	v
1280x768@60	v	v
1280x800@60	v	v
1280x1024@60	v	v
1360x768@60	v	v
1600x1200@60	v	v
1920x1080i@50/60	v	v
1920x1080p@24/25/30/50/60	v	v
1920x1200@60(RB)	v	v
3840x2160@24/25/30	v	v
3840x2160@50/60_YUV420	v	v
4096x2160@24/25/30	v	v
4096x2160@50/60_YUV420	v	v

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