QU-12S-4K

1 to 2 HDMI Distribution Amplifier with 4K support

OPERATION MANUAL

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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	SUMMARY OF CHANGE
v1.00	23/07/2013	First release

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1. INTRODUCTION

The QU-12S-4K Distribution Amplifier (splitter) accepts one HDMI input and splits this signal to two identical outputs. This device is v1.4 HDMI compliant and now supports 4K resolutions, 3D Video signals, and 'Deep Colour', together with High Definition Audio. Each buffered output can run 1080p/8-bit up to 20 metres and can also be cascaded up to 3 layers..

2. APPLICATIONS

- Simultaneously display one HDMI source on 2 displays
- Showroom display
- University lecture hall display
- Retail sales display
- Commercial presentation splitter

3. PACKAGE CONTENTS

1 input to 2 output HDMI splitter

5 V DC Power Supply Adaptor

Operation Manual

4. SYSTEM REQUIREMENTS

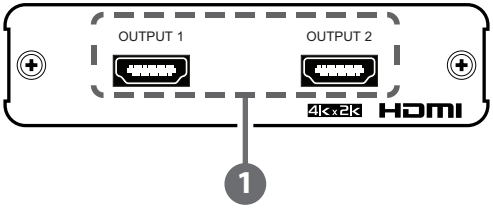
- HDMI equipped source devices such as a DVD/Blu-ray play with HDMI cables or DVI to HDMI cables
- HDMI equipped displays (HDTVs or projectors) or AV Receivers with HDMI cables

5. FEATURES

- v1.4 HDMI, HDCP 1.1 and DVI 1.0 compliant
- HDMI 1 to 2 Splitter
- Resolutions supported: PC - VGA to UXGA; HDTV - 480i to 1080p, plus 1080p24fps, & 4K
- High Definition Audio supported: Dolby TrueHD, Dolby Digital Plus and DTS-HD Master Audio plus LPCM
- Auto signal amplification & equalisation improves signal transmission distances
- Supports CEC bypass
- Supports Deep Colour (10 & 12 bit)
- Power LED indicator
- Supports xvYCC
- Supports 3D signals
- Supports 4K x 2K Ultra High Definition Resolutions

6. OPERATION CONTROLS AND FUNCTIONS

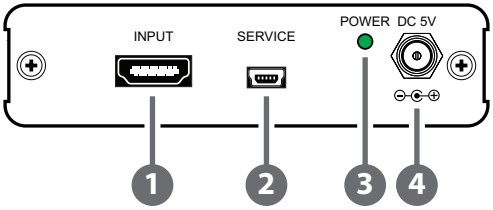
6.1 Front Panel



1 HDMI OUTPUT

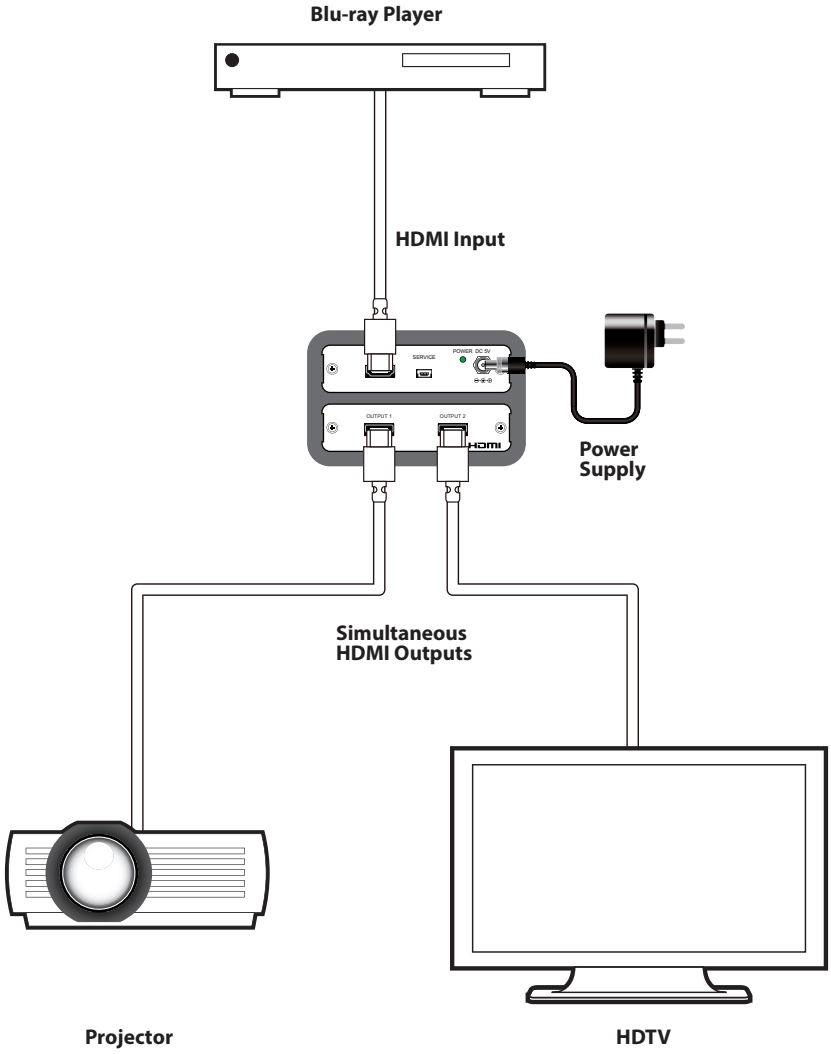
Connect each of the output ports to the HDMI displays for simultaneous HDMI distribution.

6.2 Rear Panel



1. **HDMI INPUT:** Connect the input port to the HDMI output of your source equipment such as a DVD player or set-top box.
2. **SERVICE:** Manufacturer use only.
3. **POWER LED**: The power LED will illuminate when the unit is powered.
4. **DC 5V**: Connect the 5V DC power supply into the splitter and Plug the adaptor to AC wall outlet.

7. CONNECTION DIAGRAM



8. SPECIFICATIONS

Video Bandwidth	300 MHz/9 Gbps
Input Port	1×HDMI (Female connector) 1×USB (Manufacturer use only)
Output Ports	2×HDMI (Female connector)
Output Resolution	480i~1080p@50/60, 1080p@24/50/60, VGA~UXGA, UltraHD (4K×2K@30)
ESD Protection	Human body model: ±8 kV (air-gap discharge) ±4 kV (contact discharge)
Dimensions	103 mm (W)×155 mm (D)×25 mm (H)
Weight	298 g
Chassis Material	Metal
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 (non-condensing)
Power Consumption	2.85 W

Note: When displaying a 3D signal with a higher bandwidth than 225 MHz or a 4K×2K resolution source, a High Speed HDMI cable is required.

9. ACRONYMS

ACRONYM	COMPLETE TERM
4K×2K	UltraHD Resolution (3840×2160)
HDMI	High-Definition Multimedia Interface
HDTV	High-Definition Television

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