



**4K x 2K**

## **QU-16E-4K**

**1 to 16 HDMI Distribution Amplifier (4K Resolution 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	23/06/14	First release





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## **1. INTRODUCTION**

The QU-16E-4K is a versatile 1 to 16 HDMI distribution amplifier. This product is designed to be used in a 19" rack and will distribute uncompressed HDMI signals up to 4K resolutions. Each buffered output can run 1080p/8-bit up to 10 metres and can be cascaded up to two layers.



## **2. APPLICATIONS**

-  Simultaneously display one HDMI source on 16 displays
-  Showroom display
-  University lecture hall display
-  Retail sales display

## **3. PACKAGE CONTENTS**

-  1× 1 by 16 HDMI Distribution Amplifier
-  1× 5V/6 A DC Power Supply Adaptor
-  Operation Manual

## **4. SYSTEM REQUIREMENTS**

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

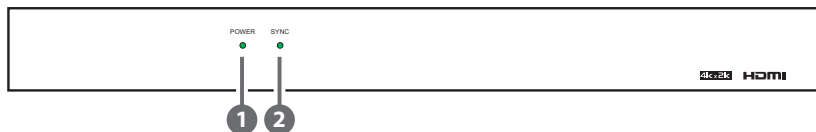
## 5. FEATURES

- /// HDMI, HDCP 1.1 and DVI 1.0 compliant
- /// Resolution Supported: PC - VGA to UXGA; HDTV - 480i to 1080p + 1080p24fps, and 4K
- /// High Definition Audio supported: LPCM 7.1Ch, Dolby TrueHD, Dolby Digital Plus and DTS-HD Master Audio transmission (32-192kHz Fs sample rate)
- /// HDMI cable distance tested with 1080p/8bits resolution the I/O source can up run up to 15/15 meters. If 1080p/12bits the I/O source can run up to 15/10 meters.
- /// Supports xvYCC
- /// Supports CEC bypass
- /// Supports 3D signals
- /// 4K Resolution Support

*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.*

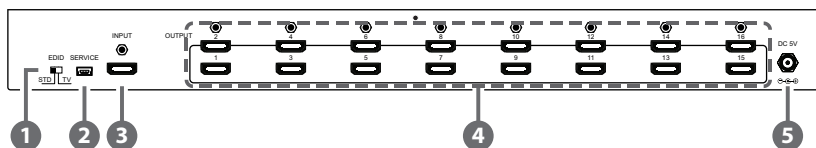
## 6. OPERATION CONTROLS AND FUNCTIONS

### 6.1 Front Panel



- ❶ **POWER LED:** The power LED will illuminate when the unit is powered.
- ❷ **SYNC LED:** The LED will illuminate when the HDMI source signal is connected to the input port.

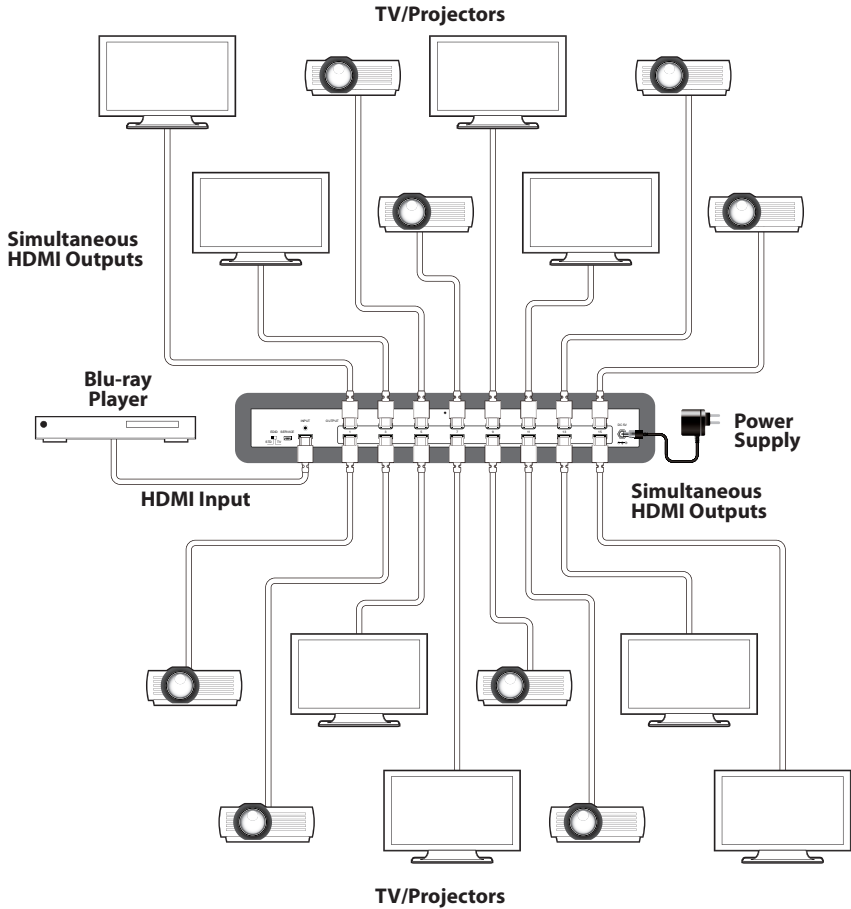
### 6.2 Rear Panel



- ❶ **EDID STD/TV:** The default factory setting is TV, when in this mode, the unit will detect the first HDMI output device's EDID settings and record them in the unit's memory. If there are any audio or video issues then switch the unit to STD (Standard) mode and power cycle it, the unit will be configured as standard stereo (PCM) Audio and initiate a search for a common compatible video resolution.
- ❷ **SERVICE:** Manufacturer use only.
- ❸ **HDMI INPUT:** Connect the input port to the HDMI or DVI output of your source equipment such as DVD player or set-top box.
- ❹ **HDMI OUTPUTS (1~16):** Connect each of the output ports to an HDMI display for simultaneous HDMI distribution.
- ❺ **DC 5V:** Connect the 5V DC power supply into the splitter and Plug the adaptor to AC wall outlet.



## 7. CONNECTION DIAGRAM



## 8. SPECIFICATIONS

<b>Video Bandwidth</b>	300 MHz/9 Gbps
<b>Input Port</b>	1×HDMI (Female connector), 1×USB (Manufacturer use only)
<b>Output Ports</b>	16×HDMI (Female connector)
<b>Output Resolutions</b>	480i~1080p@50/60, 1080p@24/50/60, VGA~UXGA, Ultra HD (4K×2K@30)
<b>ESD Protection</b>	Human body model: ±8 kV (air-gap discharge) ±4 kV (contact discharge)
<b>Dimensions</b>	436 mm (W)×26 mm (D)×48 mm (H)
<b>Weight</b>	1664 g
<b>Chassis Material</b>	Metal
<b>Colour</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 (non-condensing)
<b>Power Consumption</b>	15.8 W

## 9. ACRONYMS

ACRONYM	COMPLETE TERM
<b>4K×2K</b>	Ultra HD Resolution (3840×2160)
<b>HDMI</b>	High-Definition Multimedia Interface
<b>HDTV</b>	High-Definition Television





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