



# QU-18S

1 to 8 HDMI Distribution Amplifier

**OPERATION MANUAL**



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Version 1.1

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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
v2.00	19/07/2019	Updated format/diagrams

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## **1. INTRODUCTION**

The QU-18S Distribution Amplifier (splitter) accepts one HDMI input and splits this signal to eight identical outputs. This device is compatible to v1.3 HDMI specifications, supporting '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**

- /// Split a single HDMI input to 8 HDMI displays
- /// Showroom display
- /// Educational demo
- /// Commercial advertisement

## **3. PACKAGE CONTENTS**

- /// 1 By 8 HDMI Splitter
- /// 5V/6A Power Adaptor
- /// Power Cord
- /// Operation Manual

## **4. SYSTEM REQUIREMENTS**

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

## 5. FEATURES

- /// HDMI HDCP1.1 and DVI1.0 compliant Receiver.
- /// 'Deep colour' video up to 12bit, 1080p@60Hz.
- /// Connect an HDMI source to up to eight HDMI displays simultaneously.
- /// HDCP keysets allows each output to work independently when connecting to a HDMI display.
- /// Splits a HDMI source up to eight outputs without signal loss.
- /// Supports DVI source and DVI display by using an DVI to HDMI adaptor cable.
- /// Supports passthrough of LPCM 7.1CH, Dolby TrueHD, Dolby Digital Plus and DTS-HD Master Audio transmission (32-192kHz Fs sample rate).
- /// Supports a wide range of PC and HDTV resolutions from VGA to UXGA and 480i to 1080p.
- /// HDMI cable distance test with 1080p resolution: Input or Output source can run up to 15m/5.1CH.

Note:

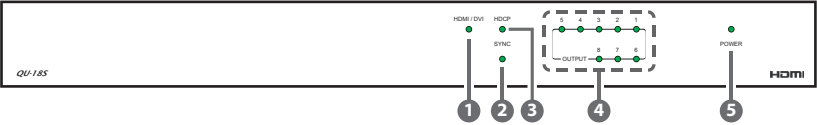
- A. Cable tested with 24AWG using cables of another type may result in a different operating distance.
- B. Cable distance test included the following: PS3 120G and 37" Samsung 12-bit LCD TV.
- C. Figures provided in this manual are reference figures only, actual figures may depend on source and display used and cable specification.

Can selected EDID source from TV or this splitter.

Fully HDCP Compliant.

# 6. OPERATION CONTROLS AND FUNCTIONS

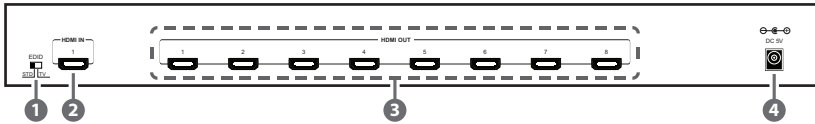
## 6.1 Front Panel



- 1 **HDMI/DVI Indicator:** The LED will illuminate when the selected HDMI input source is an HDMI output, the LED will not illuminate when the selected HDMI input source is from a DVI output.
- 2 **SYNC Indicator:** The LED will illuminate when the selected HDMI IN connects to an HDMI or DVI output correctly.
- 3 **HDCP Indicator:** The LED will illuminate when the selected HDMI input source is HDCP-protected.
- 4 **HDMI output Indicator:** The LED will illuminate when the output sources have been connected to the HDMI output ports.
- 5 **POWER Indicator:** The power LED will illuminate when power is on.

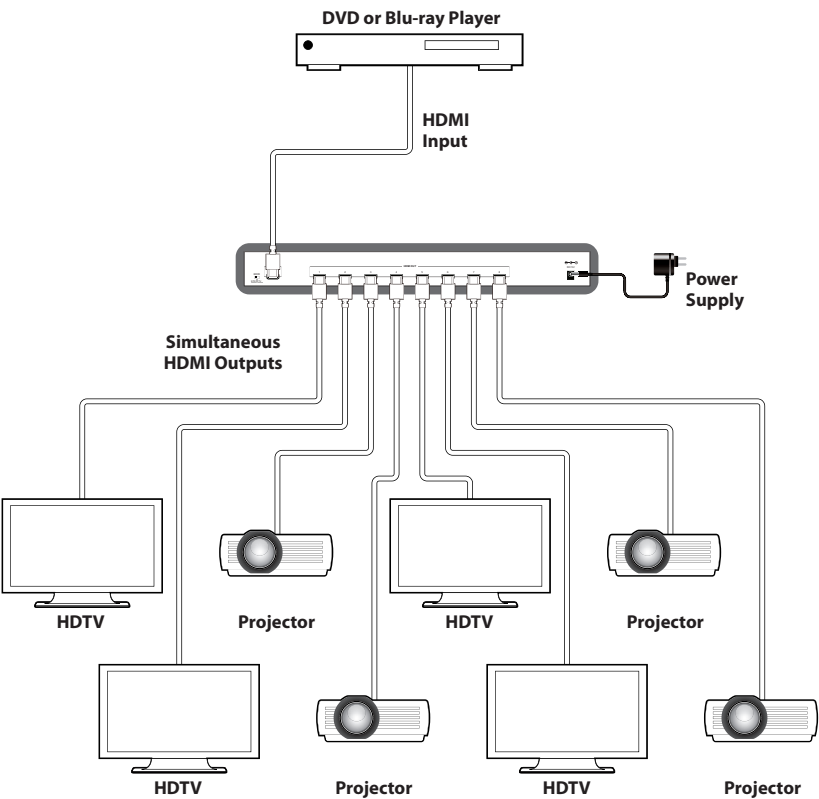


## 6.2 Rear Panel



- ❶ **EDID Control Switch:** Default factory setting is TV. Switch to STD to use the build-in EDID if the display has problems. When switched to TV mode, the unit will detect the first HDMI output source's EDID and store it in the unit. If the first detected output source is DVI it will pass to next source, until the first HDMI been detected.
- ❷ **HDMI Input:** Connect the input port to the HDMI or DVI output of your source equipment such as DVD player or set-top-box.
- ❸ **HDMI Outputs 1 to 8:** Connect each of the output ports to the HDMI display. When more than one output connected, the HDMI outputs will simultaneously display the source video signal.
- ❹ **Power:** Plug the 5V DC power supply into the splitter and connect the adaptor to an AC wall outlet.

7. CONNECTION DIAGRAM



## 8. SPECIFICATIONS

### 8.1 Technical Specifications

<b>Frequency Bandwidth</b>	2.25Gbps (Single Link)
<b>Input Port</b>	1x HDMI female port (Type A)
<b>Output Port</b>	8 x HDMI female ports (Type A)
<b>Power Supply</b>	5V DC/5A (US/EU standards, CE/FCC/UL certified)
<b>Dimensions (mm)</b>	436(W) × 160(D) × 44(H)
<b>Weight(g)</b>	2000
<b>Chassis Material</b>	Metal
<b>Silkscreen Colour</b>	Black
<b>Operating Temperature</b>	0 °C ~ 40 °C

## 9. ACRONYMS

ACRONYM	COMPLETE TERM
CEC	Consumer Electronics Control
DVI	Digital Visual Interface
EDID	Extended Display Identification Data
HDCP	High-bandwidth Digital Content Protection
HDMI	High-Definition Multimedia Interface
HDTV	High-Definition Television
VGA	Video Graphics Array









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