



QU-8MS

1 to 8 HDMI Distribution Amplifier with System Reset

/// 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	05/07/2019	Updated Format/Diagrams

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1. INTRODUCTION

The QU-8MS Distribution Amplifier (splitter) accepts one HDMI input and splits this signal to eight identical outputs. This device is 3D compatible and features a 3D signal indicator which confirms when a 3D source signal is detected.

The System Reset Function switch generates a command every 10 minutes to the connected displays which resets them to the correct HDMI input. Each buffered output can run 1080p/8-bit up to 15 metres and can also be cascaded in multiple layers.

2. APPLICATIONS

- /// Display HDMI and 3D content
- /// Simultaneously display content on multiple screens.
- /// Retail store/Conference/Advertising display

3. PACKAGE CONTENTS

- /// 1 by 8 HDMI 3D Splitter
- /// Operation Manual
- /// 5V/3A DC Power Adaptor

4. SYSTEM REQUIREMENTS

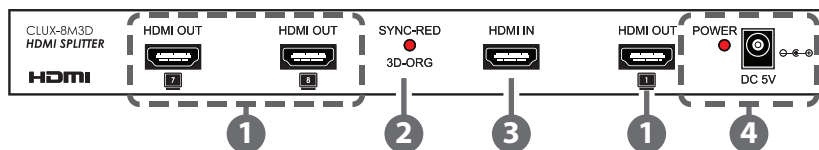
- /// HDMI source equipment such as a media player, video game console or set-top box.
- /// HDMI receiving equipment such as HDTVs, monitors or audio amplifiers.
- /// The use of "Premium High Speed HDMI" cables is highly recommended.

5. FEATURES

- /// HDMI, HDCP 1.1 and DVI 1.0 compliant
- /// Deep colour video up to 12bits, 1080p@24/60Hz
- /// Supports 3D content with an LED indicator to indicate if the video is in standard definition or 3D.
- /// Allows one HDMI source to simultaneously connect with up to eight HDMI displays
- /// HDCP keysets allows each output to work independently when connected to an HDMI display
- /// Transmits an HDMI source to eight outputs without any signal loss
- /// Supports DVI source / display by using an HDMI/DVI adaptor cable
- /// Supports LPCM 7.1CH, Dolby TrueHD, Dolby Digital Plus and DTS-HD master Audio transmission (32-192kHz sampling rate)
- /// Supports a wide range of PC and HDTV resolutions from VGA to WUXGA and 480i to 1080p
- /// HDMI cable distance testing showed that with 1080p/8bits resolution, the input source can be 15 metres away and with 1080p/12bits it can be 10 metres away.
- /// HDMI cable distance testing showed that with 1080p/8bits resolution, the output source can be 15 metres away, and with 1080p/12bits it can be 15 metres away.

6. OPERATION CONTROLS AND FUNCTIONS

6.1 Front Panel

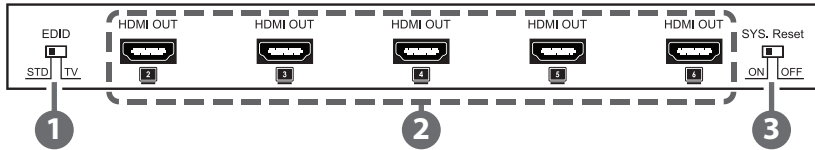


- 1 HDMI OUT 7/8/1:** Using HDMI cables connect these slots to displays in order to show HDMI/3D content.

Note: When the input signal contains 3D data the display must support 3D content in order to display an image.

- A. This system was tested with 24AWG cables if using cables of another type, the performance of this system may be different.
 - B. Cable distance tested with a PS3 & 40" Samsung UA40B700 12 bits LED TV.
 - C. Figures provided in this manual are for reference only, actual figures may depend on the source and display used along with the cables specifications.
- 2 SYNC RED 3D ORG:** This LED will turn red when the input signal is not in 3D. If the input signal is 3D then the LED will change to orange.
- 3 HDMI IN:** This slot connects with source devices such as DVD/Blu-Ray players in order to receive an HDMI signal.
- 4 POWER LED & DC 5V:** This slot is where you plug the 5V DC power supply into the unit and connect the adaptor to an AC outlet. The LED will switch on when power is ON.

6.2 Rear Panel



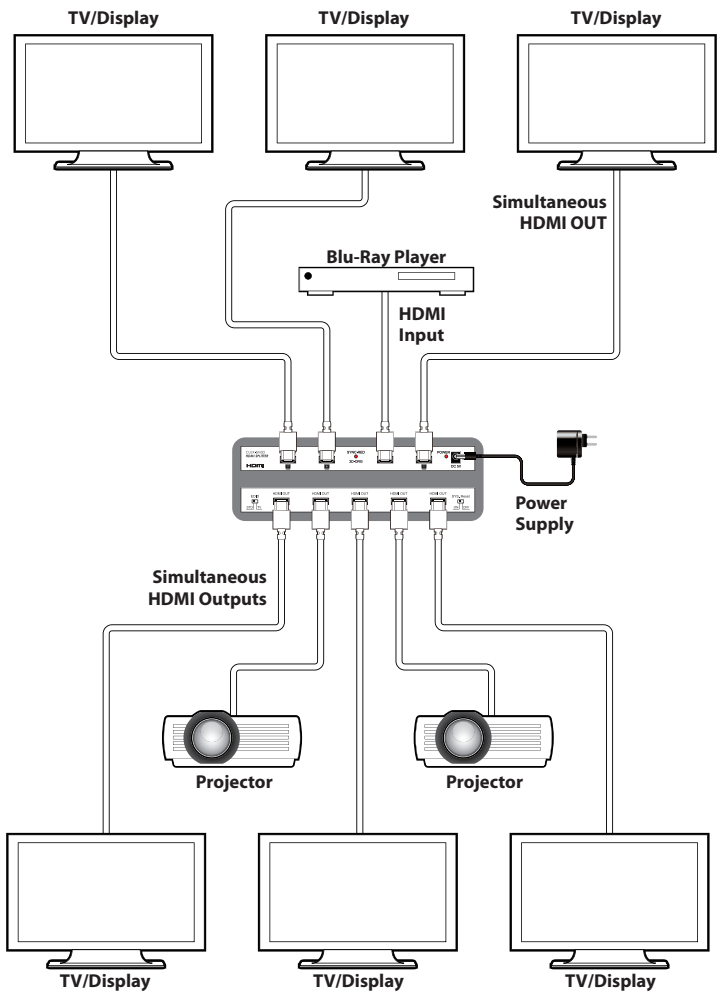
- ① **EDID switch STD/TV:** This switch allows the user to choose the EDID settings, the device must be turned on then off in order to make these changes take effect. By switching to TV the device will read the EDID of HDMI output 1 and will record it, then it will have the source send the signal to the other seven HDMI outputs. The default setting is TV which supports 3D content, leave as is when the display is working properly. By switching to STD the device will use the built-in EDID, which is set at 1080p@60/12bits for video and LPCM 2Ch for audio, to allow the source to send a signal to the connected displays.

- ② **HDMI OUT 2~6:** Using HDMI cables connect these slots to displays in order to show HDMI/3D content.

Note: When the input signal contains 3D data the display must also have 3D support in order to receive the signal.

- ③ **SYS Reset ON/OFF:** This switch allows the user to perform a system reset. The default setting is OFF, leave as is when in normal use. By switching ON, the unit will perform a reset every 8~10 minutes, in order to perform this function the displays must have CEC support. When performed successfully, the system will automatically switch the displays to HDMI 1 input. The system reset will not perform on those displays that do not have a CEC function.

7. CONNECTION DIAGRAM



8. SPECIFICATIONS

8.1 Technical Specifications

Video Bandwidth	225MHz/6.75Gbps
Input Port	1 x HDMI
Output Ports	8 x HDMI
ESD Protection Human body model	±8kV (air-gap discharge) ±6kV (contact discharge)
Power Supply	5V / 3A DC (US/EU standards, CE/FCC/UL certified)
Dimensions(mm)	240 (W) x 103 (D) x 25(H)
Weight(g)	665
Chassis Material	Metal
Silkscreen Colour	Black
Operating Temperature	0°C~40°C / 32°F~104°F
Storage Temperature	-20°C~60°C / -4°F~140°F
Power Consumption	10W
Relative Humidity	20 ~ 90% RH (non-condensing)

9. ACRONYMS

ACRONYM	COMPLETE TERM
CEC	Consumer Electronics Control
DVI	Digital Visual Interface
EDID	Extended Display Identification Data
HD	High-Definition
HDCP	High-bandwidth Digital Content Protection
HDMI	High-Definition Multimedia Interface
LPCM	Linear Pulse-Code Modulation
VGA	Video Graphics Array (640×480@60Hz)
WUXGA	Wide Ultra Extended Graphics Array (1920×1200@60Hz)



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