



QU-8-4K22

1 to 8 HDMI Distribution Amplifier
(4K, HDCP2.2, HDMI2.0)

OPERATION MANUAL

DISCLAIMERS

The information in this manual has been carefully checked and is believed to be accurate. CYP (UK) Ltd assumes no responsibility for any infringements of patents or other rights of third parties which may result from its use.

CYP (UK) Ltd assumes no responsibility for any inaccuracies that may be contained in this document. CYP (UK) Ltd also makes no commitment to update or to keep current the information contained in this document.

CYP (UK) Ltd reserves the right to make improvements to this document and/or product at any time and without notice.

COPYRIGHT NOTICE

No part of this document may be reproduced, transmitted, transcribed, stored in a retrieval system, or any of its part translated into any language or computer file, in any form or by any means—electronic, mechanical, magnetic, optical, chemical, manual, or otherwise—without express written permission and consent from CYP (UK) Ltd.

© Copyright 2011 by CYP (UK) Ltd.

All Rights Reserved.

Version 1.1 August 2011

TRADEMARK ACKNOWLEDGMENTS

All products or service names mentioned in this document may be trademarks of the companies with which they are associated.

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	08/11/2016	First release

CONTENTS

1. Introduction	6
2. Applications	6
3. Package Contents	6
4. System Requirements	6
5. Features.....	7
6. Operation Controls and Functions	8
6.1 Front Panel	8
6.2 Rear Panel.....	9
7. Connection Diagram	10
8. Specifications.....	11
8.1 Technical Specifications	11
8.2 Supported Resolutions.....	12

1. INTRODUCTION

The QU-8-4K22 Distribution Amplifier (splitter) accepts one HDMI input and splits this signal to eight identical outputs. This device supports 4K2K Ultra-High Definition video with HDMI2.0 and HDCP2.2 compliance.

In addition, 3D Video signals and High Definition Audio formats such as LPCM 7.1CH, Dolby TrueHD, Dolby Digital Plus, Dolby Atmos and DTS-HD Master Audio, audio sampling rate up to 192kHz are also supported. Each buffered output can run 1080p/8-bit up to 20 metres and can also be cascaded up to 3 layers..

2. APPLICATIONS

- /// Lecture Room/Hall Presentation
- /// Show Room/Demo Room
- /// Public Commercial Display

3. PACKAGE CONTENTS

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

4. SYSTEM REQUIREMENTS

Input source equipment such as Blu-ray/DVD/PS3 player or Set-Top-Box or any 6G with HDCP2.2 source.

And output with 6G HDMI TV/Display and or audio amplifier with connection cables.

Note: To achieve 6G performance Premium High Speed HDMI Cables are recommended.

5. FEATURES

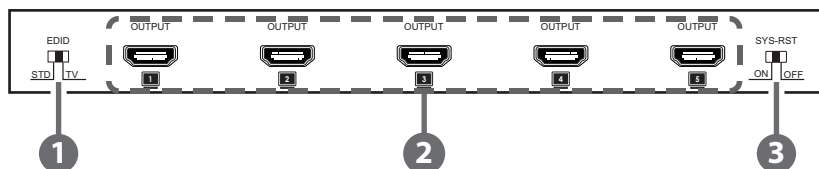
- /// HDMI 2.0, HDCP 2.2 and DVI compliant
- /// HDMI 1 to 8 HDMI splitter
- /// Supports UHDTV resolutions up to 4K2K:
3840×2160@24/25/30/50/60Hz & 4096×2160 @24/25/30/60Hz
- /// Supports passthrough of high definition audio: LPCM 2/5.1/7.1CH,
Dolby Digital 2/5.1CH, DTS 2/5.1CH, Dolby TrueHD, DTS-HD Master
Audio & Dolby Atmos
- /// Supports System Reset function (CEC active source command) allows
the unit to reset the TV to its default HDMI input automatically
- /// HDMI input supports 'Standard' mode and 'TV' mode EDID settings
- /// Input and output status are indicated on the front panel

Note: To active HDR function, input source and output device should also support HDR function.

When displaying HDMI 4K2K signal, equivalent source signal, output display and HDMI cables are required in order to secure the best image display.

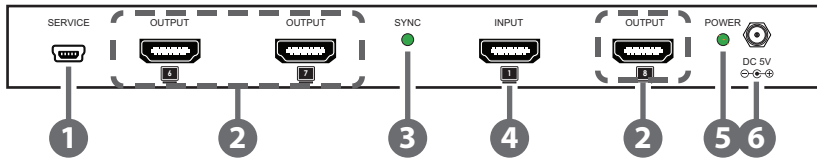
6. OPERATION CONTROLS AND FUNCTIONS

6.1 Front Panel



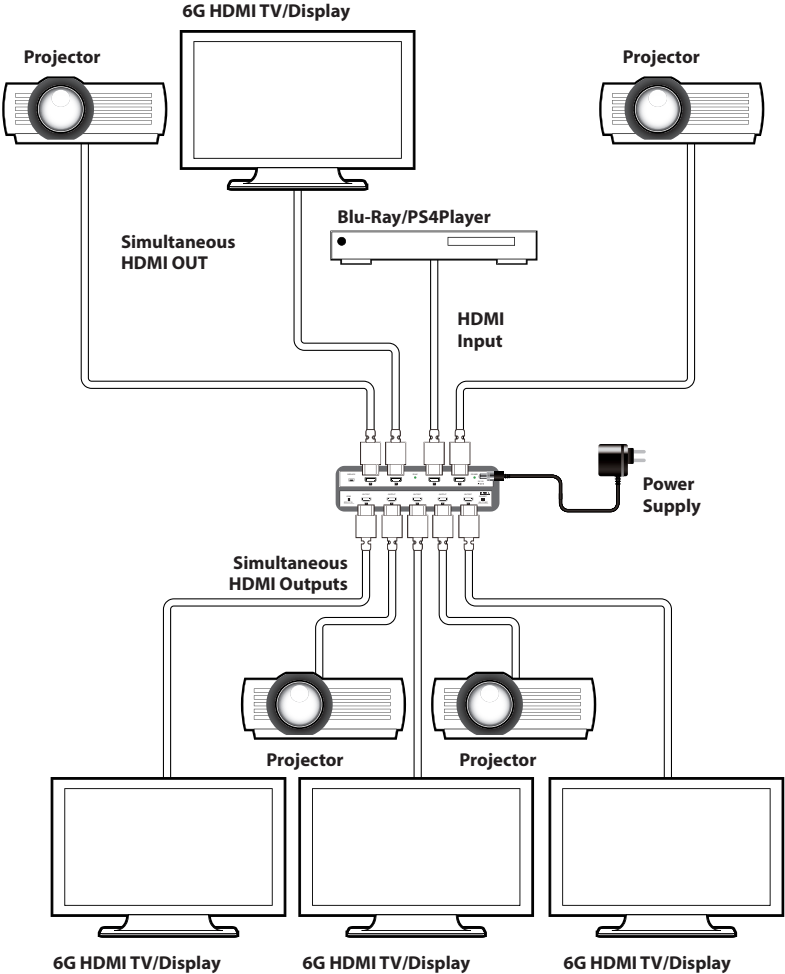
- ❶ **EDID:** Switch the dip switch to choose EDID mode to Standard (STD) or TV mode. When on TV mode, the unit will automatically detect and store output 1 sink EDID data. Switch to STD mode, the unit will set to standard at 1080p and audio standard at PCM 2 channel.
- ❷ **OUTPUT 1~5:** Connect to 6G HDMI TV / display or HD amplifier for output display.
- ❸ **SYS-RST:** Switch the dip switch from off to on, the unit will trigger TV to its HDMI input1 immediately, when stays in on, the unit will trigger the system in every 8~10 minutes. (*The purpose of this function is to guarantee all outputs are displaying the corresponding image. For example, at the display side user may switch to different HDMI input or select other sources and this reset function will force the display to switch back to its HDMI input1. TV/displays shall support CEC function in order to perform this function successfully.)

6.2 Rear Panel



- ❶ **SERVICE:** This is reserved for firmware update use only.
- ❷ **OUTPUT 6~8:** Connect to HDMI 6G TV/display or HD amplifier for output signal display.
- ❸ **SYNC:** When input detected, the LED will illuminate, the LED will flicker when detected abnormal, for example, when source signal not stabled. When input is not connected, the LED light will be off.
- ❹ **INPUT:** Connect with 6G HDMI source equipment such as Blue-ray/ PS4 players and or PC/Laptop devices.
- ❺ **Power:** This LED will illuminate when the device is connected to an active power supply.
- ❻ **DC 5V:** Connect the adapter included in the package and connect to AC wall outlet for power supply.

7. CONNECTION DIAGRAM



8. SPECIFICATIONS

8.1 Technical Specifications

Video Bandwidth	600MHz/18Gbps
Input Ports	1 x HDMI 1 x USB(Service)
Output Ports	8 x HDMI
Supported Resolutions	VGA~WUXGA 480i~1080p@24/50/60 4K2K@24/25/30/50/60(YUV444)
HDMI Cable I/O	5m@4K2K/60_YUV444
Distance	10m@1080p/12-bit 15m@1080p/8-bit
Power Supply	5V DC/3A (US/EU standards, CE/FCC/ UL certified)
ESD Protection	Human Body model: ± 8kV (air-gap discharge) ± 4kV (contact discharge)
Chassis Material	Metal
Silkscreen colour	Black
Dimensions	240mm (W) x 103mm (D) x 25mm (H) (Jacks excluded) 240mm (W) x 110mm (D) x 30mm (H) (Jacks included)
Weight	690g
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	9.5w

8.2 Supported Resolutions

DVI and HDMI Supported Resolutions	Input	Output
640x480@60/72/75/85	✓	✓
800x600@56/60/72/75/85	✓	✓
1024x768@60/70/75/85	✓	✓
1280x1024@60	✓	✓
1366x768@60	✓	✓
1600x1200@60	✓	✓
1920x1080@60	✓	✓
1920x1200@60	✓	✓
1440x576i@50	✓	✓
1440x480i@59.94/60	✓	✓
720x480p@59.94/60	✓	✓
720x576p@50	✓	✓
1280x720p@50/59.94/60	✓	✓
1920x1080i@50/59.94/60	✓	✓
1920x1080p@23.97/24/25/29.97/30/50/59.94/60	✓	✓
3840x2160@24/25/30/50/60	✓	✓
4096x2160@24/25/30/50/60	✓	✓



CYP (UK) Ltd., Unit 7, Shepperton Business Park, Govett Avenue, Shepperton,
Middlesex, TW17 8BA

Tel: +44 (0) 20 3137 9180 | Fax: +44 (0) 20 3137 6279

Email: sales@cypeurope.com

www.cypeurope.com

v1.00