CPRO-11SR
HDMI 4Kx2K Repeater

Operation Manual

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Version 1.0 September 2011

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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 DD/MM/YY	SUMMARY OF CHANGE
RDV1	14/06/13	Preliminary release
VS1	20/09/13	Amended text/diagrams

CONTENTS

1. INTRODUCTION

The HDMI ™ 4K×2K Repeater is an advanced solution for extending an HDMI signal. It amplifies and equalizes the HDMI signal to provide high quality audio and video allowing you to extend the HDMI cable distance a further 15 meters at 1080p@60Hz/8-bit resolution.

2. APPLICATIONS

• Extend the operating distance of a 4K×2K HDMI connection
• Extend the distance between HDMI matrix systems

3. PACKAGE CONTENTS

• HDMI 4K×2K Repeater
• 5V/1.2A DC Power Adaptor
• Operation Manual

4. SYSTEM REQUIREMENTS

Source device such as a PC/Laptop or Blu-ray/DVD player and TV/display or AV receiver with suitable HDMI connection cables.

5. FEATURES

- Compliant with HDMI, HDCP 1.2 and DVI 1.0
- Supports HDMI audio sampling rates up to 192 kHz
- HDMI supports high-bit-rate (HBR) audio
- Supports maximum input and output HDMI cable lengths of up to 15 meters each at 1080p/8-bit resolution or 10 meters each at 1080p/12-bit or 4K×2K resolution
- Supports the equalization and recovery of incoming TMDS data before re-transmission with optimal signal quality
- Fully HDCP compliant
- Supports DVI conversion with HDMI to DVI adaptor
- Supports CEC bypass function
- Supports 4K×2K resolution and 3D signals

Note: For playback of 4K×2K/3D HDMI source signals, a 4K×2K/3D capable display and High Speed HDMI cables are required.
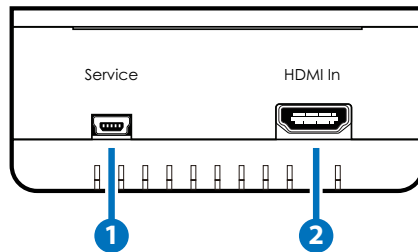
6. OPERATION CONTROLS AND FUNCTIONS

6.1 Top Panel
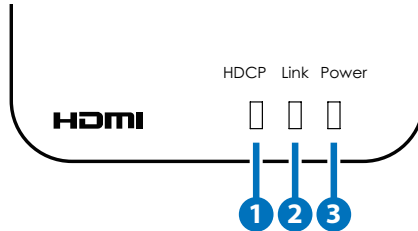
1 **HDCP LED:** This LED will illuminate when an HDCP encoded HDMI signal has been detected.

2 **Link LED:** This LED will illuminate when an active HDMI signal is being received.

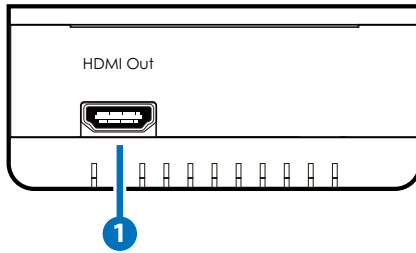**3** **Power LED:** This LED will illuminate when the unit is connected to an active power supply.

6.2 Right Panel

1 **Service:** Manufacturer use only.

2 **HDMI In:** Connect to a source such as Blu-ray player, games console or PC/laptop with an HDMI output.
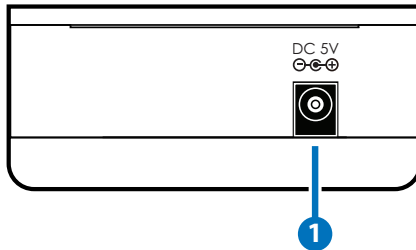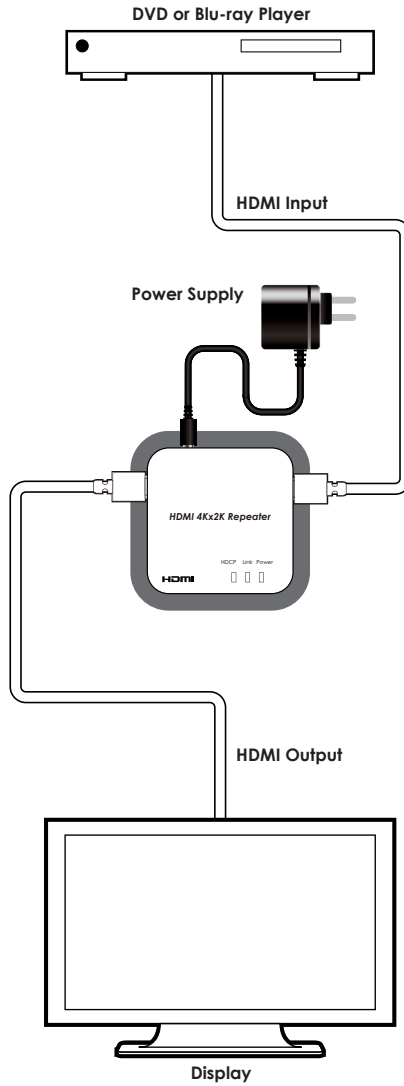
6.3 Left Panel

1 **HDMI Out:** Connect a TV/display with an HDMI cable for output of the combined audio/video HDMI signal.

Note: For playback of 4K×2K/3D HDMI source signals, a 4K×2K/3D capable display and High Speed HDMI cables are required.

6.4 Rear Panel

1 **DC 5V:** Connect the 5V DC power supply to the unit and plug the adaptor into an AC wall outlet.

7. CONNECTION DIAGRAM

DVD or Blu-ray Player

HDMI Input

Power Supply

HDMI 4Kx2K Repeater

HDCP   Link   Power

HDMI

HDMI Output

Display

8. SPECIFICATIONS

Video Bandwidth	300 Mbps/10.2 Gbps
Input Ports	1×HDMI, 1×Mini-USB (Manufacturer use only)
Output Port	1×HDMI
Audio Sampling Rates	HDMI: Up to 192 kHz
HDMI Audio Formats	LPCM 2/5.1/7.1CH, Dolby Digital 2~5.1CH, DTS 2~5.1CH, Dolby Digital Plus, Dolby TrueHD & DTS-HD Master Audio
HDMI Cable I/O Distance	10 m@1080p/12-bit, 15 m@1080p@8-bit, 10 m@4K×2K
Power Supply	5 V/1.2 A DC (US/EU standards, CE/FCC/ UL certified)
ESD Protection	Human body model: ±8kV (air-gap discharge) ±6kV (contact discharge)
Dimensions	85 mm (W)×87.5 mm (D)×34 mm (H)
Weight	102 g
Chassis Material	Plastic
Silkscreen Color	White
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	2.5 W

9. ACRONYMS

ACRONYM	COMPLETE TERM
4K×2K	Ultra HD (3840×2160/4096×2160)
DTS	Digital Theater System
EDID	Extended Display Identification Data
HDCP	High-bandwidth Digital Content Protection
HDMI	High-Definition Multimedia Interface
TMDS	Transition-minimized differential signaling