

# CLUX-11HB

L/R & Optical Audio to HDMI Bridge



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 DD/MM/YY	SUMMARY OF CHANGE
VR0	25/07/13	Preliminary Release



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#### 1. INTRODUCTION

The L/R and Optical Audio to HDMI Bridge is designed for analog or digital audio signal to be send out through HDMI. Allowing immidiate plug-and-play enjoyment over HDMI audio without obstruct. When connecting to a HDMI display a blue screen will appear with a simple OSD to show the current input audio. Supporting digital audio sampling rate up to 192kHz and analog audio sampling rate up to 48kHz.

# 2. APPLICATIONS

- L/R or Optical audio convert to HDMI output
- HDCP regulated HDMI devices
- Audio management and control system

#### 3. PACKAGE CONTENTS

- 1 x L/R & Optical Audio to HDMI Bridge
- 1 x 5V DC Power Adaptor
- Operational Manual

#### 4. SYSTEM REQUIREMENTS

Input audio source equipment with L/R or Optical ouptut and HDMI devices such as TV/Display or HDMI equipments.

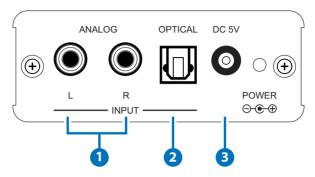
#### 5. FEATURES

- Supports Analog to Digital audio Conversion (ADC)
- Supports Optical audio sampling rate 32kHz to 192kHz and LPCM 2CH
- Supports L/R audio smapling rate at 48kHz
- Plug and play with no software require



# 6. OPERATION CONTROLS AND FUNCTIONS

#### 6.1 Front Panel



### 1 INPUT L/R:

Connect from audio source equipment with L/R output with L/R RCA jack cables.

## 2 INPUT Optical:

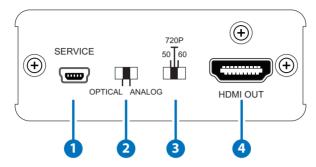
Connect from audio soure equipment with optical output with optical cable.

### 3 DC 5V & Power LED:

Plug the 5V DC power supply into the unit and connect the adaptor to an AC outlet the LED will illuminate when the device is connected with power supply.



#### 6.2 Rear Panel



### SERVICE:

This slot is reserved for factory firmware update only.

2 OPTCIAL/ANALOG Switch:

Switch to select input from Optical or Analog L/R.

# 3 720p 50/60 Switch:

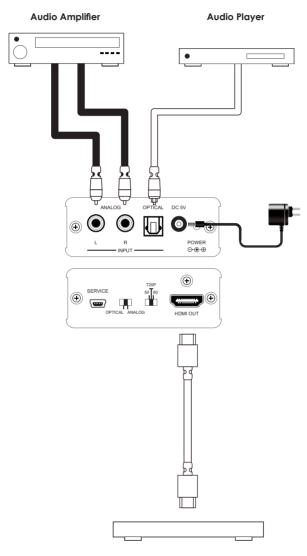
Switch to display output blue image with 720p/50 or 720p/60. OSD will display current input audio and output timing for 15 seconds.

# 4 HDMI OUT:

Connect with HDMI equipped device such as HDMI matix, swithcer or HD TV/display. Audio support up to 192kHz with Optical or 48kHz with Analog.



# 7. CONNECTION DIAGRAM



**HDMI Equipped Deviec** 



### 8. SPECIFICATIONS

**Input port** 1 x L/R (Analog Stereo 2RCA), 1 x Optical

Output port 1 x HDMI

**Audio Input Sampling** L/R: 48kHz

Rate Optical: 32~ 192kHz, LPCM 2CH

**ESD Protection** Human body model:

±8kV (air-gap discharge) ±4kV (contact discharge)

**Power Supply** 5V/ 2.6A DC (US/EU standards, CE/FCC/

UL certified)

**Dimensions** 78.5mm(W) x 95.5mm(D) x 30mm(H)

Weight 170g Silkscreen Color Black

Operating Temperature  $0^{\circ}\text{C} \sim 40^{\circ}\text{C} / 32^{\circ}\text{F} \sim 104^{\circ}\text{F}$ Storage Temperature  $-20^{\circ}\text{C} \sim 60^{\circ}\text{C} / -4^{\circ}\text{F} \sim 140^{\circ}\text{F}$ 

**Relative Humidity** 20 ~ 90% RH (non-condensing)

Power Consumption 2.6W



# 8.1 Audio Specifications

INPUT	OUTPUT	Output Level	T.H.D+N	Frequency Response	SNR	Crosstalk
Optical	HDMI	2Vrms	<0.01%	±1 dBFS	>80 dB	<-80dB
0dBFS		±10				
1kHz/						
32KHz~						
192KHz						
Line	HDMI	2Vrms	<0.01%	±1 dBFS	>80 dB	<-80dB
2Vrms/		±10				
1KHz						

# 8.2 Input Audio to Output Audio Chart

Audio Input	Input Format	HDMI Audio Output
Analog L/R	Analog 2CH	LPCM 2CH
OPTICAL	LPCM 2CH	LPCM 2CH
	Dolby Digital	Bypass

