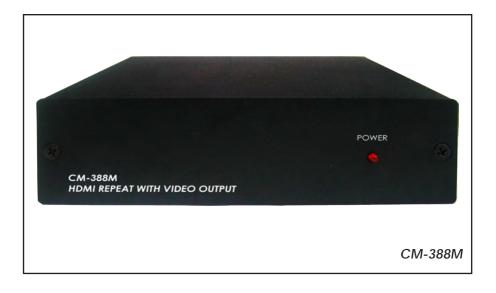
# HDMI REPEAT WITH VIDEO OUTPUT

**Operation Manual** 



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#### Safety Precautions

Please read all instructions before attempting to unpack or 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 module openings or empty slots, as you may damage parts.
- Do not attach the power supply cabling to building surfaces.
- Do not allow anything to rest on the power cabling or allow it to be abused by persons walking on it.
- ➤ To protect the equipment from overheating, do not block the slots and openings in the module housing that provide ventilation.

#### Revision History

Version No	Date	Summary of Change
VR0	20120625	Preliminary Release

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#### 1. Introduction

The HDMI Repeat with Video Output is designed to convert digital signal from HDMI (or DVI + Coaxial) source to analog signal of NTSC or PAL system, with L/R stereo audio. Besides S-Video and Composite Video outputs, it also provides an HDMI bypass output to deliver the original signal, and a Coaxial output to send S/PDIF digital audio to audio amplifier. The device provides a convenient application that allows the users to watch high definition movie (in standard resolutions 480i or 576i) from DVR or VCR machine.

## 2. Applications

- HDMI to Composite Video or S-Video signal conversion
- HDMI to NTSC/PAL system conversion

## 3. Package Contents

- HDMI Reapeat with Video Outupt
- 5V / 2.6A DC Power adaptor
- Operation Manual

# 4. System Requirements

Input source equipment such as DVD or Blu-ray player and output display TV/monitor with connection cables.

#### 5. Features

- HDMI 1.2, HDCP1.1 and DVI1.0 compliant
- Converts video signal from HDMI source to NTSC or PAL signal selectable
- Converts digital audio from HDMI source to analog stereo audio
- Accepts a wide range of HDTV input resolutions, from 480i to 1080p@60Hz and PC from VGA@60Hz to WUXGA@60HzRB
- Video and audio conversion / bypass scenarios:

INPUT A	Both video and audio from HDMI source*	
OUTPUT A	HDMI - > Bypass, output original video and audio from HDMI	
	COAXIAL -> Output digital audio from HDMI	
	CV + L/R -> Output analog video / audio converted from HDMI	
	SV + L/R -> Output analog video / audio converted from HDMI	

INPUT B	Video from DVI source and audio from Coaxial source**
ОИТРИТ В	HDMI -> output original video from DVI and audio from Coaxial
	COAXIAL -> Output digital audio from Coaxial
	CV + L/R -> Output analog video converted from DVI, L/R mute***
	SV + L/R -> Output analog video converted from DVI, L/R mute***

INPUT C	Video from DVI source and audio from Coaxial source
ОИТРИТ С	DVI -> Bypass, output original video from DVI
	COAXIAL -> Output digital audio from Coaxial
	CV + L/R -> Output analog video converted from DVI, L/R mute***
	SV + L/R -> Output analog video converted from DVI, L/R mute***

- \* In the scenario of INPUT/OUTPUT A, the audio signal from Coaxial input will not be used.
- \*\* DVI input or output can be applied by using HDMI to DVI adapter or cable of similar function.
- \*\*\* Analog L/R audio outputs are not available when the audio input is Coaxial, please connect the analog audio from source to your speakers directly.
- Supports Coaxial input audio sample rate 44.1KHz, 48KHz and 96KHz
- When the signal from HDMI or DVI source is protected by HDCP (High-bandwidth Digital Content Protection), the HDMI or DVI display needs to supports HDCP to be able to show picture.
- When receving contents that has HDCP encryption, the CV & SV output will not display image.

# 6. Specifications

Input Ports 1 x HDMI type A, 1 x Coaxial
Output Ports 1 x HDMI type A, 1 x Coaxial,

1 x Composite-Video, 1 x R/L

1 x S-Video, 1 x R/L

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

CE/FCC/UL certified)

Dimensions (mm) 141 (W) x 127 (D) x 38 (H)

Weight(g) 510

Chassis Material Aluminum

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  $20 \sim 90\%\text{RH}$  (non-condensing)

Power Consumption 5.5W

#### **6.1 Supports Resolutions**

HD
480i60,p60
576i50,p50
720p50,p60
1080p24
1080i50,i60
1080p50,p60

PC
640x480@60,72,75,85
720x400@70
800x600@56,60,72,75,85
1024x768@60,70,75,85
1152x864@70,75,85
1280x720@60cvt
1280x768@60RB,60
1280x800@60RB,60,75
1280x <b>9</b> 60@60
1280x1024@60,75
1366x768@60RB,60
1400x1050@60RB,60
1440x900@60RB,60,75
1600x900@60RB
1600x1200@60
1680x1050@60RB,60
1920x1200@60RB

Note: DVI source input does not support 480i &576i.

#### 6.2 Audio Chart

Video/Audio Source	HDMI	DVI (with DVI to HDMI adaptor)
Audio Output	HDMI Embedded Audio	Coaxial Input
HDMI Bypass	Yes	Yes (SR 44.1k , 48k , 96k)
Coaxial	Yes	Yes
Stereo L/Rx2	Yes (Audio source is LPCM 2CH)	No

# 7. Operation Controls and Functions

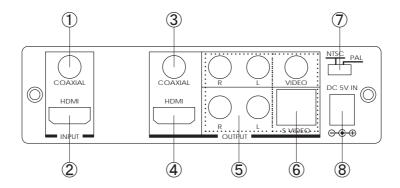
The following sections describe the hardware components.

#### 7.1 Front Panel



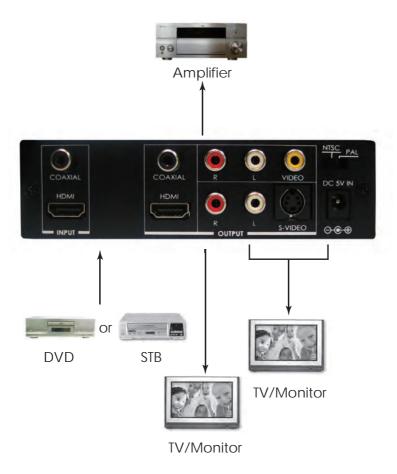
①. Power LED: The LED indicator will illuminate when the unit is connected with power supply.

#### 7.2 Rear Panel



- ①. Coaxial Input: Connect to the Coaxial output port of your source equipment such as DVD player or Set-Top-Box for audio signal sending.
- ②. HDMI Input: Connect to the HDMI output port of your source equipment such as DVD player or Set-Top-Box.
- ③. Coaxial Output: Connect to the input port of your digital audio equipment such as audio amplifier.
- 4. HDMI Bypass Output: Connect to the HDMI input port of your display.
- L/R Output: Connect to speakers.
- ©. Composite Video/S-Video: Connect to the input port of your display.
- ②. TV System Switcher: Select between NTSC and PAL system for output.
- ®. DC 5V: Plug the 5VDC power supply into the unit and connect the adaptor to AC wall outlet.

#### 8. Connection and Installation





# 9. Acronyms

Acronym	Complete Term
HDCP	High-bandwidth Digital Content Protection
HDMI	High-Definition Multimedia Interface
VGA	Video Graphics Array

