

CMDPH-2C Mini-DisplayPort to HDMI Converter



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 |
|-------------|---------------|----------------------|
| V1 | 06/10/10 | Preliminary Release |
| VS2 | 30/08/12 | Updated format/texts |



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1. INTRODUCTION

The Mini-DisplayPort to HDMI Converter is designed to display your MAC /PC / Notebook content on an HDTV or monitor. No external power supply is required, as the model can be powered by USB directly. No need to install any software, the model can work with MAC / PC / NB in a plug-and-play fashion, the installation is easy to anyone.

2. APPLICATIONS

- Convert DisplayPort signal to VGA signal
- Display DisplayPort signal on VGA monitor or projector

3. PACKAGE CONTENTS

- Mini-DisplayPort to HDMI Signal Converter
- Operation Manual

4. SYSTEM REQUIREMENTS

Input Mini-DisplayPort/DisplayPort source equipment, USB powering connection, and HD TV or monitor.

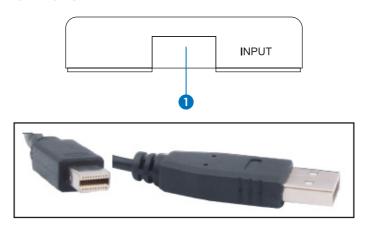
5. FEATURES

- Compliant with HDMI (with Deep Color Video), HDCP1.1 and DVI1.0
- Supports up to 1080p@50/60 and WUXGA
- Supports pixel component format with RGB: YCbCr422: YCbCr444
- Supports bit depth per color with 8/10/12-bit
- Bi-direction Color Space Conversion (CSC) between RBG and YCbCr
- Dithering for conversion from 12-bit component to 10/8-bit
- Support USB 2CH, LPCM 48K@24-bit
- Automatic audio error detection with soft mute function, preventing annoying harsh output sound due to audio error or hot-unplug
- Automatic loss of signal detection for link management



6. OPERATION CONTROLS AND FUNCTIONS

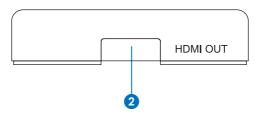
6.1 Front Panel



1 Mini-DisplayPort/USB INPUT

Connect Mini-DisplayPort port to the source equipment, and USB port to device providing power supply. The USB cable, if connected to MAC/PC/NB, can be used to transfer audio signal from the source and be integrated to the HDMI output.

6.2 Rear Panel

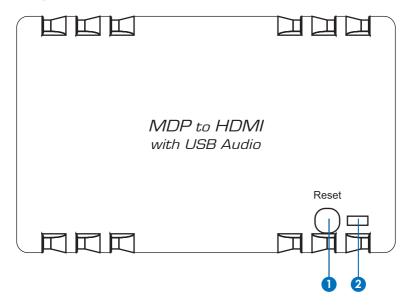


1 HDMI OUTPUT

Connect to output display such as HD TV or monitor supporting HDMI.



6.3 Top Panel

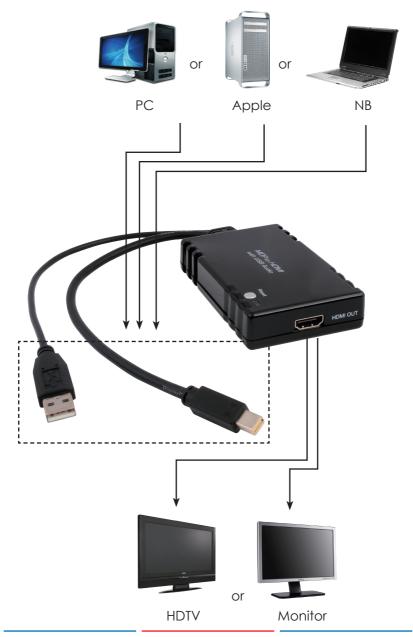


- Reset
 - Press this button only when there is no picture output. Press it repeatedly until there is image shown on the display properly.
- 2 Power LED

 The red LED will illuminate when the USB power is connected.



7. CONNECTION DIAGRAM





TMDS Clock Frequency 2.7Gbps

Input ports 1 x Mini-DisplayPort (Male type), 1 x USB

Output port 1 x HDMI (Female type)

Input Resolution 480i ~1080p, VGA ~ WUXGA

Output Resolution 480i ~1080p, 1920 x 1200@60Hz,

VGA~WUXGA

I/O Audio Sample Rate Up to 48 kHz

I/O Audio Support PCM 2CH

ESD Protection Human body model:

±8kV (air-gap discharge)

±4kV (contact discharge)

Dimensions (mm) $100(W) \times 62.5(D) \times 22(H)$

Weight(g) 22

Chassis MaterialPlasticSilkscreen ColorBlack

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)



9. ACRONYMS

| ACRONYM | COMPLETE TERM |
|---------|---|
| HDCP | High-bandwidth Digital Content Protection |
| MDP | Mini DisplayPort |
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