

CP-298D

DVI to DVI Scaler Box

nT15GX04



Operation Manual

• **Disclaimers**

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

Cypress Technology assumes no responsibility for any inaccuracies that may be contained in this document. Cypress also makes no commitment to update or to keep current the information contained in this document.

Cypress Technology 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 Cypress Technology.

© Copyright 2009 by Cypress Technology.

All Rights Reserved.

Version 1.0 January 2010

• **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 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**

<u>Version No</u>	<u>Date</u>	<u>Summary of Change</u>
V1	20100213	Preliminary Release

Table of Contents

1. Introduction.....	1
2. Applications.....	1
3. Package Contents.....	1
4. System Requirements.....	1
5. Features.....	1
6. Specifications.....	2
7. Hardware Description.....	3
7.1 Front Panel	3
7.2 Rear Panel	3
7.2 Top Panel	4
8. Connection and Installation.....	5
9. Acronyms	6

1. Introduction

This Scaler Box is design to display your DVI images on the HDTV with better viewing image. It can upscale DVI input sources to DVI output for wide-range of HD resolutions; the resolution support XGA/UXGA/720p/1080p/1366 x 768/1440 x 900/1400 x 1050. This unit allows user to with a variety of output resolutions and adjust for the best picture quality. Move over, with built-in hot-key OSD function and display it helps user to view and select the desire resolution instantly.

2. Applications

- Convert HD timing into PC timing
- Convert PC timing into HD timing

3. Package Contents

- DVI to DVI scaler box
- 5V DC power adaptor
- Operation Manual

4. System Requirements

Input source equipment and output HD display with DVI connection cables.

5. Features

- Output supports HDMI 1.2, HDCP 1.1 and DVI 1.0 compliant HDCP compliant
- Input supports HDMI v1.3 8/10/12-bit deep color mode
- Support HD resolution input: VGA~WSXGA, WUXGA (Reduce Blanking)/1366x768/1440x900/1400x1050/480p@60, 720p@60, 1080p@60
- Fast switch hot key from 720p to 1080p/1280x800/1366x768/1920x1200(RB)
- Auto -Detection and Hot plug
- Interlaced to progressive conversion with various picture display supplement

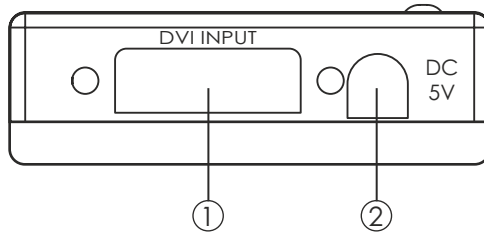
6. Specifications

TMDS Clock Frequency	225MHz
Input port	1 x DVI
Output port	1 x DVI
Power Supply	5V/1A DC (US/EU standards, CE/FCC/UL certified)
Dimensions (mm)	114 (W) x 65 (D) x 26 (H)
Weight(g)	88
Chassis Material	Plastic
Silkscreen Color	Black
Power Consumption	2.7W
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)

7. Hardware Description

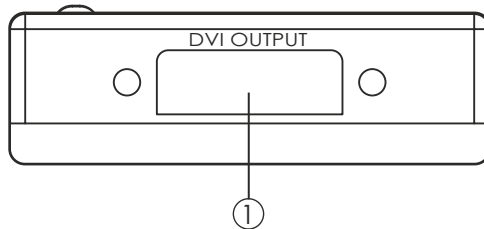
The following sections describe the hardware components of the unit.

7.1 Front Panel



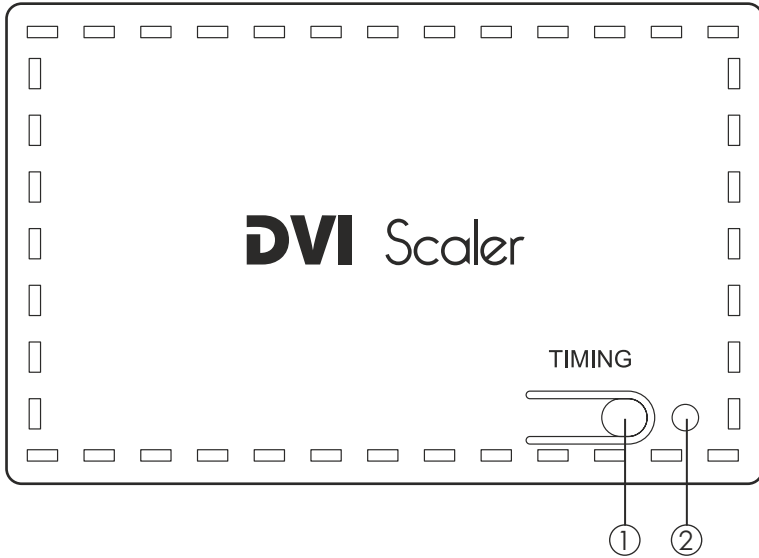
- ① DVI INPUT: This slot is where you plug your input source equipment with DVI cable for source signal sending.
- ② DC 5V: This slot is where you plug the 5V DC power supply into the unit and connect the adaptor to an AC wall outlet.

7.2 Rear panel



- ① DVI OUTPUT: This slot is where you connect to HDTV display with DVI cable for source signal display.

7.3 Top Panel



- ① Timing button: Press this button once to show both input and output display resolution and while OSD is still on press it again to select output resolution from 720p to 1080p/1280x800/1366x768/1920x1200(RB).
- ② Power LED: This LED will illuminate when power is connected.

8. Connection and Installation



HDTV / LCD Monitor



Acronyms

Acronym

Complete Term

HDCP

High-bandwidth Digital content protection

HDMI

High-Definition Multimedia Interface

VGA

Video Graphics Array

WUXGA

Wide Ultra Extended Graphics Array

