

# DVI to VGA Scaler Box



## Operation Manual

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## Introduction

This unit is a high performance PC/HDTV two-way scaler that accepts Digital DVI-D input and converts to analog RGB output. The DVI to VGA scaler box is the latest in technology, which has been designed to meet the needs of those on the cutting edge.

## Precautions

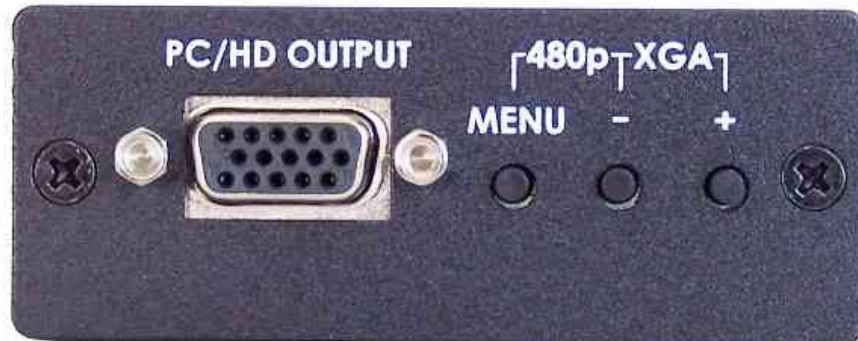
1. Do not expose this product to direct sunlight.
2. Keep the unit away from radiator, heat sources and magnetic field.
3. Do not place it in very dusty or humid locations.
4. Use this unit in a horizontal position only.
5. Do not put heavy objects on top of the converter.
6. Put the unit in an open space that has good ventilation.
7. If the unit is acting abnormally keep the unit away from TV or other electronic equipment.
8. Unplug the unit from the power supply when it is not to be used for a long period of time.

## Features

- It is a high performance PC/HDTV two-way scaler that accepts Digital DVI-D input and converts to Analog RGB output.
- Input to the DVI to VGA Scaler Box is digital PC or HDTV signal in the format of either RGBHV or YPbPr /YCbCr data bit-stream via a 24-pin DVI connector.
- Output of the DVI to VGA Scaler Box is Analog PC or HDTV signal in the format Analog RGBHV or YPbPr via a HD-15 VGA connector.
- Input resolution is automatically detected while the output resolution and refresh rate can be selected through OSD menu and front panel push buttons.
- 48 MB frame memory for frame rate conversion.
- Output picture adjustment on brightness, Contrast, Color and H-V position.

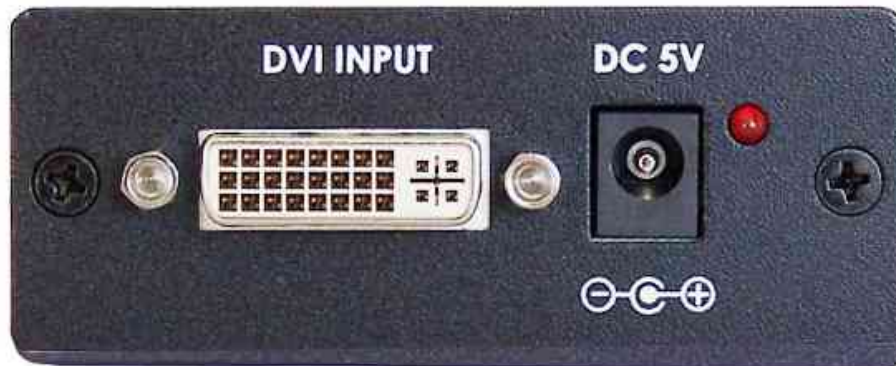
## Operation Controls and Functions

### Front Panel



1. **PC/HD Output-** This is the output port. A HD-15 VGA connector cable is used to connect the output to your output device (PC/HDTV).
2. **Menu-** When the menu is selected it allows you to select the picture adjustment on brightness, contrast, colour and H-V position.
3. **"- And +" buttons-** These buttons are used to change the picture adjustment. They allow you to increase or decrease brightness, contrast, colour and the H-V position.

### Rear Panel



1. **DVI Input-** This is the video input port. A 24-Pin DVI connector is used to connect the input port to your input device. (DVI).
2. **Power- DC 5V-** This is the power supply input port. It is to be used with the power pack supplied.

## Connection and Installation

The AC adaptor power unit should not be plugged into a wall outlet until all connections are complete.

- Using your connector cable connect the output port (Number 1 on the front panel) to the output device. The output either being PC or HDTV.
- Using your connector cable connect the input port (Number 1 on the rear panel) to the input device. Input being DVI.
- The menu allows you to adjust the output resolution and refresh rate using the front panel push buttons. It also allows you to adjust brightness, contrast, color, RGB level and H-V position

Once all connections are complete please connect the power supply provided to the power socket.

## Specifications

### Input resolutions

| Digital | PC (RGBHV)  |                | HDTV (YcbCr, YPbPr, RGBHV) |           |       |
|---------|-------------|----------------|----------------------------|-----------|-------|
| VGA     | 640 X 480   | 60/72/75/85 Hz | 1080i                      | 1920X1080 | 60 Hz |
| VESA85  | 640 X 400   | 85 Hz          | 720p                       | 1280X720  | 60 Hz |
| VGA70   | 720 X 400   | 70 Hz          | 576p                       | 720X576   | 50 Hz |
| SVGA    | 800 X 600   | 60/72/75/85 Hz | 480p                       | 720X480   | 60 Hz |
| XGA     | 1024 X 768  | 60/72/75/85 Hz | 576i                       | 720X576   | 50 Hz |
| Mac     | 1152 X 864  | 70/75 Hz       | 480i                       | 720X480   | 60 Hz |
| WXGA    | 1280 X 768  | 60 Hz          |                            |           |       |
| 1280A   | 1280 X 960  | 60 Hz          |                            |           |       |
| SXGA    | 1280 X 1024 | 60 Hz          |                            |           |       |

### Output resolution

| Digital | PC (RGBHV)  |                | HDTV (YPbPr, RGBHV) |           |       |
|---------|-------------|----------------|---------------------|-----------|-------|
| VGA     | 640 X 480   | 60/72/75/85 Hz | 1080i               | 1920X1080 | 60 Hz |
| VESA85  | 640 X 400   | 85 Hz          | 720p                | 1280X720  | 60 Hz |
| VGA70   | 720 X 400   | 70 Hz          | 576p                | 720X576   | 50 Hz |
| SVGA    | 800 X 600   | 60/72/75/85 Hz | 480p                | 720X480   | 60 Hz |
| XGA     | 1024 X 768  | 60/72/75/85 Hz |                     |           |       |
| Mac     | 1152 X 864  | 70/75 Hz       |                     |           |       |
| WXGA    | 1280 X 768  | 60 Hz          |                     |           |       |
| 1280A   | 1280 X 960  | 60 Hz          |                     |           |       |
| SXGA    | 1280 X 1024 | 60/75 Hz       |                     |           |       |

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**Input format:** Digital YCbCr, YPbPr, RGBHV

**Input signal:** Digital RGB Data bit-stream

**Input connector:** 24 Pin- DVI-D connector.

**Output format:** Analog RGBHV, YPbPr

**Output signal:** RGB 0.7 Vp-p, 75 ohm H/V: 3 to 5 Vp-p TTL

Y: 1 Vp-p 75ohm, Pb/Pr: 0.7 Vp-p 75 ohm.

**Output connector:** HD 15-Pin Female

**Power:** 5V 2A Center-positive