

# DVI to DVI-I Scaler Box



## Operation Manual

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## Introduction

This unit is a DVI to DVI- I high performance two way Scaler Box that converts DVI-D input into analog + digital PC or HDTV output.

## 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. Keep the unit away from TV or other electronic equipment if the unit is acting abnormally.
8. Unplug the unit from the power supply when it is not to be used for a long period of time.

## Features

- CP-254 is a high performance PC/HDTV two-way scaler that accepts digital DVI-D input and converts to DVI-I (digital + analog RGB) output.
- The input is digital PC/HDTV signal in the format of either RGBHV or YPbPr/YCbCr data bit-stream via 24-pin DVI connector.
- The output of the CP-254 is digital + analog PC or HDTV signal in the format of digital RGBHV bit-stream plus analog RGBHV, known as DVI-I (Intergrated digital and analog).
- The 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, RGB level, and H-V position.
- DVI output enables an all digital rendering of video without the losses associated with an analog interface and is ideal for use with digital display such as LCD, plasma and DLP projectors.
- A DVI-I to VGA adaptor is included to transfer the analog RGB output contained in the DVI-I connector into HD-15 VGA connector so that the output can also connects to any display units that has VGA input.

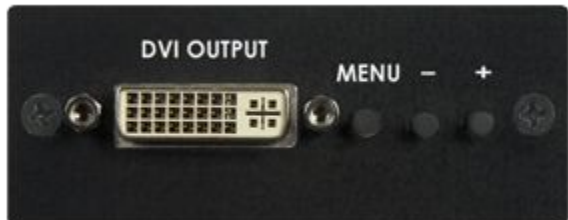
## Operation Controls and Functions

### Front Panel



1. **DVI Input port-** This is the DVI input port. Connect the port to your device using a 24-pin DVI-D connector.
2. **DC 5V 2.6A Centre positive-** This is the power supply input port. Connect the port to your power socket using the power supply.
3. **Power LED-** This is the Power LED indicator. It will light up when the power has been turned On.

### Rear Panel



1. **DVI Output port-** This is the DVI output port. Connect the port to your device using a 29 Pin DVI-I connector + 1 DVI-I to HD-15 adaptor.
2. **Menu-** This is the menu button.
3. **-/+ Buttons-** These buttons are used to decrease or increase the value of the selected parameter.

## Connection and Installation

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

For PC in to PC or HDTV Out:

- Connect your PC to the DVI-D input port using a VGA cable (Number 1 on the front panel).
- For analog DVI-I output connect the unit (Number 1 on the rear panel) to your TV using a DVI to VGA adaptor. This allows the unit to connect with any display unit that has VGA input.
- For digital DVI-I output connect the unit (Number 1 on the rear panel) to your HDTV.

For HDTV in to PC or HDTV Out:

- Connect your DVD player, STB, DVHS to the DVI-D Input port (Number 1 on the front panel).
- For analog DVI-I output connect the unit (Number 1 on the rear panel) to your screen using a DVI to VGA adaptor. This allows the unit to connect with any display unit that has VGA input.
- For digital DVI-I output connect the unit (Number 1 on the rear panel) to your HDTV.

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	1920 x 1080	60 Hz
VESA85	640 x 400	85 Hz	720p	1280 x 720	60 Hz
VGA70	720 x 400	70 Hz	576p	720 x 576	50 Hz
SVGA	800 x 600	60/72/75/85 Hz	480p	720 x 480	60 Hz
XGA	1024 x 768	60/70/75/85 Hz	576i	720 x 576	50 Hz
Mac	1152 x 864	70/75 Hz	480i	720 x 480	60 Hz
WXGA	1280 x 768	60 Hz	1080i	1920 x 1080	50 Hz
1280A	1280 x 960	60 Hz	720p	1280 x 720	50 Hz
SXGA	1280 x 1024	60 Hz			

### Output Resolutions:

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

**Note: YPbPr output is not available on DVI-I digital output.**

**Input Format:** Digital RGBHV, YPbPr or YCbCr

**Input Signal:** Digital RGB data Bit-stream

**Input Connector:** 24-pin DVI-D connector

**Output Format:** Digital RGBHV + Analog RGBHV or YPbPr (Through DVI to HD-15 adaptor).

**Output Signal:** Digital Data Bit-stream.

**Output Connector:** 29 Pin DVI-I connector + 1 DVI-I to HD-15 adaptor

**Power:** 5V 2.6A center-positive