DVI to PC Converter
ID# 662

Operation Manual

Introduction

Converts a DVI-D Digital signal input to Analog PC/RGB or HD YPbPr output. It enables you to connect a digital DVI source to an analog PC monitor, projector or TV. Its high bandwidth capability supports a wide range of PC and HDTV resolutions. Can be used easily for Professional and Private applications.

The unit is extremely small and easy to set up. Connect the DVI-D input port to the DVI output port of your device such as a DVD player or set top box. Then connect the output port to the PC/YPbPr input of your device such as an analog PC monitor, projector or TV.

The unit has a switch which lets you select the correct output. Set the switch to RGB when your DVI source device is a PC graphics card or other digital RGB source signal. Set the switch to YPbPr when your DVI source device is a DVD player, set-top box, or any other high definition digital video source.
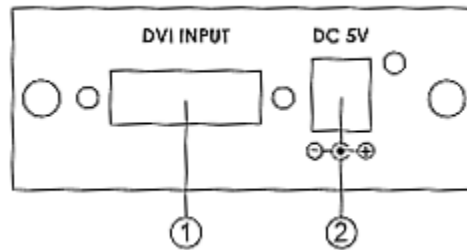
Features

- Supports DVI-D input and Analog PC/RGB or HD YPbPr output.
- Supports output selection between YPbPr and RGB.
- Supports input/output resolution as below:
  PC: 640x480= VGA59 , VGA60, VGA72, VGA75, VGA85
  800x600= SVGA56, SVGA60, SVGA72, SVGA75, SVGA85
  1024x768= XGA60, XGA70, XGA75, XGA85
  1152x864=MAC70, MAC75, MAC85
  1280x1024= SXGA60, SXGA75, SXGA85,
  1600x1200= UXGA60
  1920x1200= WUXGA60(pixel-rate=154MHz)
  HD: 480160, 576150, 480P60, 576P50, 720P60, 720P50, 1080160, 1080150, 1080P30, 1080P60, 1080P50

Note:
1. Due to the IC didn't support Tri-level synchronies output. So component output at 720p/1080i/1080p, the image will shift tothe left side of the screen.
2. If DVI source includes HDCP(High-bandwidth Digital Content Protection), DVI display should not support HDCP decryption.
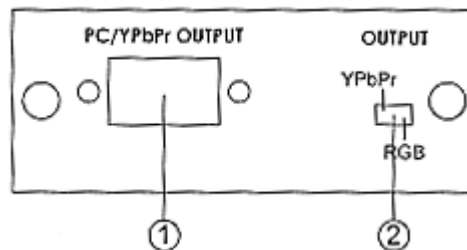
- Built-in EDID.

Front Panel

1. DVI input: Connect the DVI-D input port to the DVI output port of
   your source equipment such as DVD player or set-top-box. It supports
   only DVI-D signal via a DVI-1 connector.
2. Power: Plug the 5VDC power supply into the unit and connect the
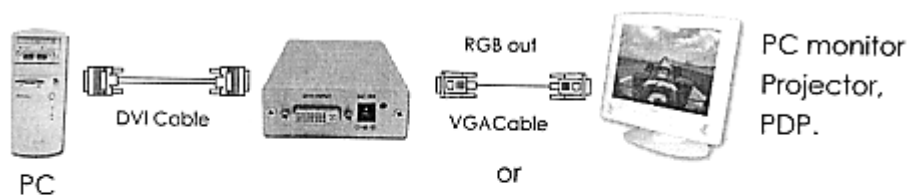   adaptor to AC wall outlet.

Rear Panel

1. HD-15 D-Sub output: Connect the output port to the PC/YPbPr input of
analog PC monitor, Projector or TV.
2. YPbPr/RGB switch:
Set the switch to RGB when your DVI source equipment is PC graphic card
or other digital RGB source signal. Use HD-15 to HD-15 VGA cable to
connect between the unit's RGB out and the RGB input of your PC monitor,
or projector. Set the switch to YPbPr when your DVI source equipment is
DVD player, set-top-box or other High definition digital video source. Use
a VGA to 3 RCA adaptor cable to connect the unit's YPbPr out to the
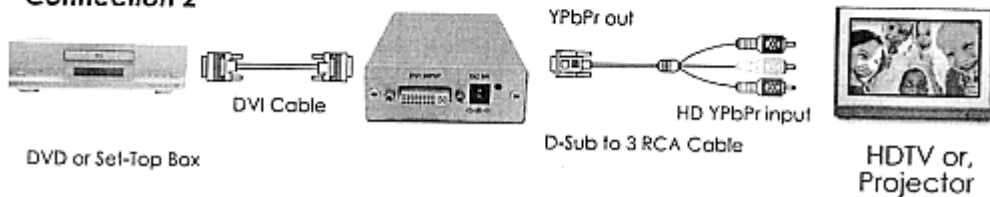YPbPr input connector of your HDTV.

Note: When YPbPr output from HD-15 D-Sub the H-pin and V-pin will
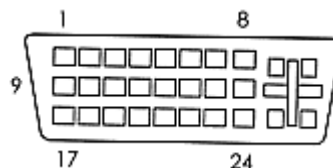remain the signal at the same time.

Connection and Installation

Connection 1

PC → DVI Cable → [converter] → RGB out → VGA Cable → PC monitor Projector, PDP.
or

Connection 2

DVD or Set-Top Box → DVI Cable → [converter] → YPbPr out → D-Sub to 3 RCA Cable → HD YPbPr input → HDTV or, Projector
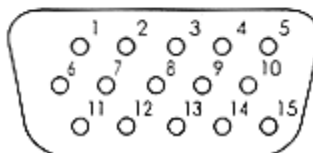
Pin Configuration

A. DVI input Pin Assignment.

Pin#	Function	Pin#	Function	Pin#	Function
1	TMDS D2-	9	TMDS D1-	17	TMDS D0-
2	TMDS D2+	10	TMDS D1+	18	TMDS D0+
3	TMDS D2 SHD	11	TMDS D1 SHD	19	TMDS D0 SHD
4	N.C.	12	N.C.	20	N.C.
5	N.C.	13	N.C.	21	N.C.
6	DDC CLOCK	14	POWER +5V	22	TMDS CLK SHD
7	DDC DATA	15	GND(DDC)	23	TMDS CLK+
8	RESERVED	16	H.P. DETECT	24	TMDS CLK-

B. Analog VGA output pin assignment when output switch set to RGB.

Part No.	Pin No.	Description (PC out)
DB15HD	1	RED
	2	GREN
	3	BLUE
	4	GND
	5	GND (DDC-RETURN)
	6	GND-RED
	7	GND-GREEN
	8	GND-BLUE
	9	N.C
	10	GND-SYNC
	11	GND
	12	DDC-DATA
	13	H-SYNC
	14	V-SYNC
	15	DDC-CLOCK

C. Analog VGA output pin assignment when output switch set to YPbPr.

Part No.	Pin No.	Description (HD out)
DB15HD	1	Pr
	2	Y
	3	Pb
	4	GND
	5	GND (DDC-RETURN)
	6	GND-Pr
	7	GND-Y
	8	GND-Pb
	9	N.C
	10	GND-SYNC
	11	GND
	12	DDC-DATA
	13	H-SYNC
	14	V-SYNC
	15	DDC-CLOCK

Specifications

Operation frequency	Up to 165MHz
Input port	1 x DVI (only DVI-D supported)
Input signal	Digital RGB or YPbPr bistream
Output port	1 x HD-15 D-Sub (RGBHV or YPbPr)
Output signal	**RGB:** 0.7Vp-p 75ohm
	H+V: 3 to 5 Vp-p
	Or **Y:** 1 Vp-p 75ohm
	PB/Pr: 0.7 Vp-p 75ohm
Input/Output resolution	**PC:** 640x480= VGA59 , VGA60, VGA72, VGA75, VGA85
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	1920x1200= WUXGA60 (pixel-rate = 154MHz)
	HD: 480160, 576150, 480P60, 576P50, 720P60, 720P50, 1080160, 1080150, 1080P30, 1080P60, 1080P50
Power Supply	5V/2A DC (US/EU standards, CE/FCC/UL certified)
Dimensions (mm)	76(W) x 30(D) x 92(H)
Weight(g)	182
Chassis Material	Aluminum
Silk Skin Color	Silver
Operating Temperature	Operating from 0°C - 40°C

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