

CP-1262DE

DVI to PC/Component Converter Box

Operation Manual



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1. Introduction

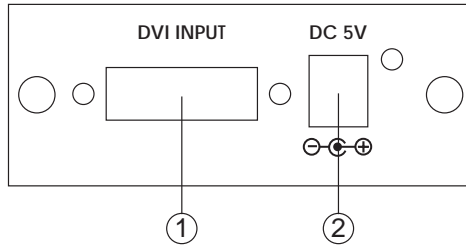
This converter box converts digital DVI-D to Analog PC/RGB or HD YPbPr output. It enables the DVI sources to connect with the analog PC monitor, Projector or TV. Its high bandwidth capability supports a wide range of PC and HDTV resolutions.

2. 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: 480I60, 576I50, 480P60, 576P50, 720P60, 720P50, 1080I60, 1080I50, 1080P60, 1080P50
- Note: ① Due to the IC don't supports Tri-level synchronization output. So component output at 720p/1080i/1080p, the image will shift to the left side of the screen.
- ② If input DVI source includes HDCP(High-bandwidth Digital Content Protection), the DVI output will not display.
- ③ Output timing is the same as input timing.
- Built-in EDID.

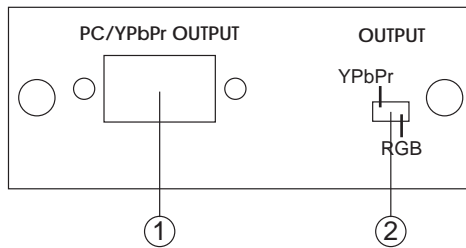
3. Operation Controls and Functions

3.1 Front Panel



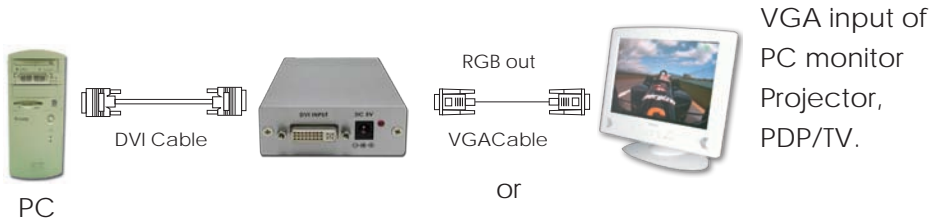
- ① DVI input: Connect the DVI-D input port to the DVI output port of your source equipment such as DVD player or set-top-box. It supports only DVI-D signal via a DVI-I connector.
Note: When DVI input has HDCP Protection, output will not display.
- ② Power: Plug the 5VDC power supply into the unit and connect the adaptor to AC wall outlet.

3.2 Rear Panel

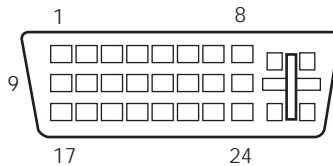


- ① HD-15 D-Sub output: Connect the output port to the PC/YPbPr input of analog PC monitor, Projector or TV.
- ② YPbPr/RGB switch:
Set the switch to RGB when your DVI source equipment is PC graphic card or other digital RGB source signal. Use HD-15 to HD-15 VGA cable to connect between the unit's RGB 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: Due to IC's limitation with out Tri-level's function, YPbPr May have leaning image at resolution at 720p and above.
When YPbPr output from HD-15 D-Sub, the H-pin and V-pin will remain the signal at the same time.

4. Connection and Installation



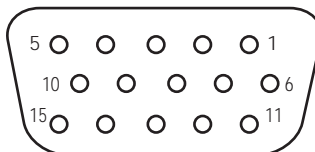
5. Pin Configuration



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. D Sub 15 pin Assignment



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

Part No.	Pin No.	Description (PC out)
DB15HD	1	RED
	2	GREEN
	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

6. 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: 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 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: 480I60, 576I50, 480P60, 576P50, 720P60, 720P50, 1080I60, 1080I50, 1080P60, 1080P50
Power Supply	5V/1A DC (US/EU standards, CE/FCC/UL certified)
Dimensions (mm)	76(W) x 30(D) x 92(H)
Weight(g)	182
Chassis Material	Aluminum
Silkscreen Color	Silver
Operating Temperature	0°C ~ 40°C
Power Consumption	2.5W (max)

