

CP-1262DE

DVI to PC/Component Converter Box

Operation Manual



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1. Introduction

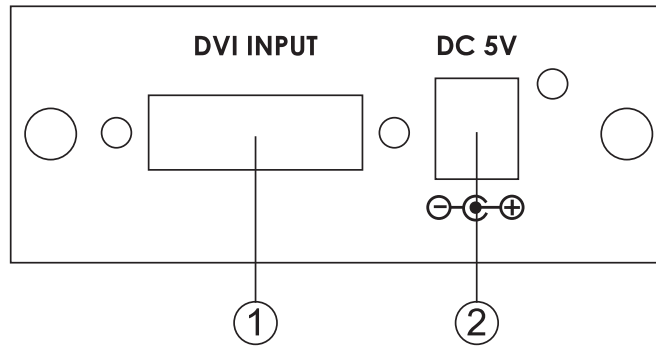
This converter box converts digital DVI-D to Analogue PC/RGB or HD YPbPr output. It enables to connect the DVI sources to the analogue PC monitor, Projector or TV. Its high bandwidth capability supports a wide range of PC and HDTV resolutions.

2. Features

- Supports DVI-D input and Analogue 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, 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 to the left side of the screen.
- ② If DVI source includes HDCP(High-bandwidth Digital Content Protection), DVI display should not support HDCP decryption.
- Build in EDID.

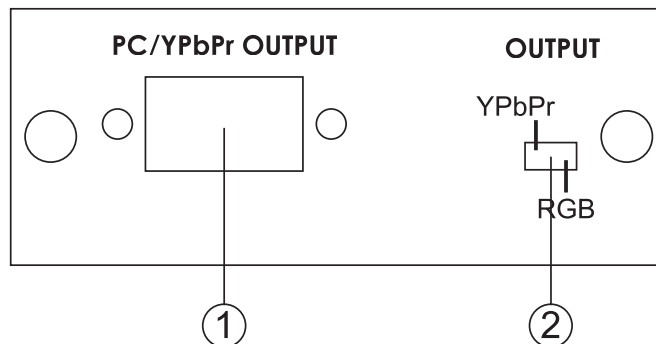
3. Operation Controls and Functions

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.
- ② Power: Plug the 5VDC power supply into the unit and connect the adaptor to AC wall outlet.

3.2 Rear Panel

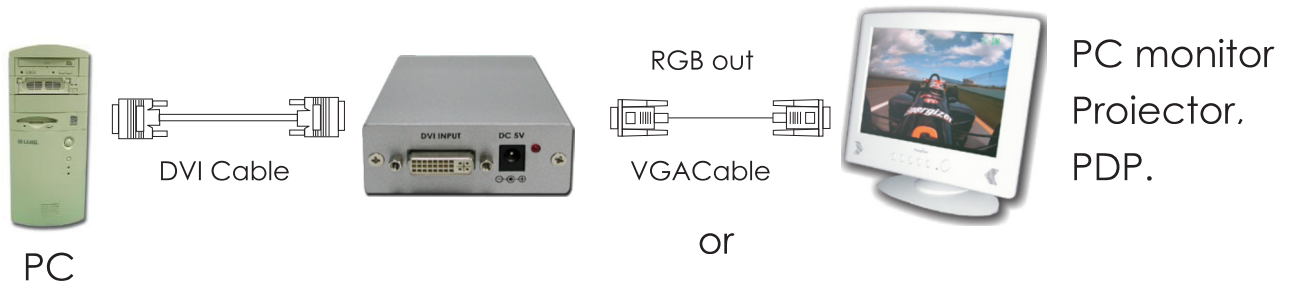


- ① HD-15 D-Sub output: Connect the output port to the PC/YPbPr input of analog PC monitor, Projector or TV.
- ② YPbPr/RGB switch:
Set the switch to RGB when your DVI source equipment is PC graphic card or other digital RGB source signal. Use HD-15 to HD-15 VGA cable to connect between the unit's RGB 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.

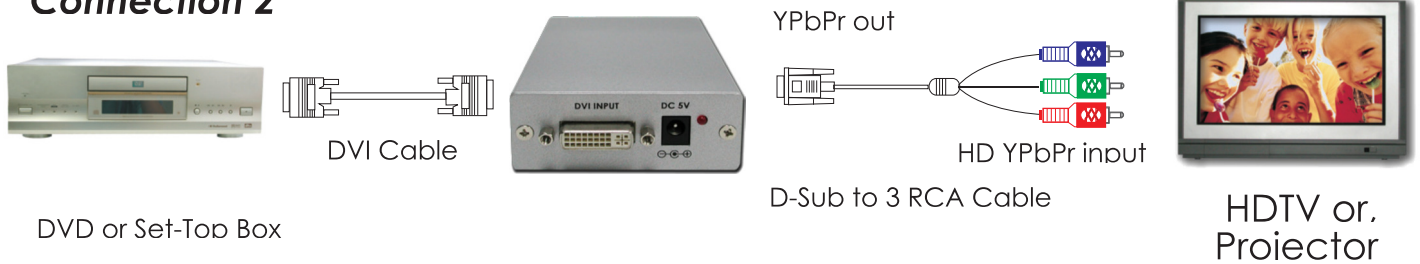
Note: When YPbPr output from HD-15 D-Sub the H-pin and V-pin will remain the signal at the same time.

4. Connection and Installation

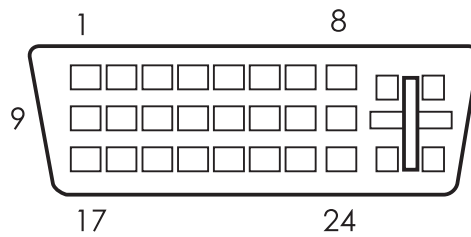
Connection 1



Connection 2

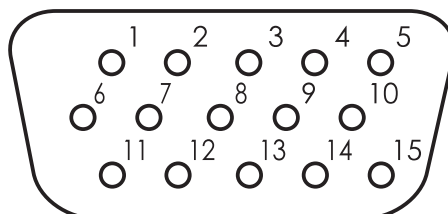


5. Pin Confiuration



A. DVI input Pin Assianment.

| 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. Analoa VGA output pin assianment when output switch set to RGB.

| Part No. | Pin No. | Description (PC out) |
|----------|---------|----------------------|
| DB15HD | 1 | RED |
| | 2 | GRN |
| | 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. Analoa VGA output pin assianment 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: 0.7V _{p-p} 75ohm H+V: 3 to 5 V _{p-p} Or Y: 1 V _{p-p} 75ohm PB/Pr: 0.7 V _{p-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, 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(a) | 182 |
| Chassis Material | Aluminum |
| Silk Skin Color | Silver |
| Operatina Temperature | Operatina from 0°C ~ 40°C |



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