

Digital HDMI DVI To Component Video Scaler

Operation Manual



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1. Introduction

This digital DVI to analog component video scaler is designed to help user easily convert digital DVI-D signal from a computer or digital media player to component video in analog format, allowing the viewing or switching of digital video to be presented on a HDTV system via the component video cable link.

This industrial grade DVI converter is great for many new PC or Mac computers with DVI or HDMI output to be connected to any flat panel TV display or HDTV monitor via the component video cable connection. Watch HD videos from HDMI or DVI source such as HD camcorder, desktop/laptop computer or digital media player on your older HDTV display through component input.

With supreme high operating frequency up to 165Mhz and maximum bandwidth up to 1.65Gbps, the component video output images from this DVI HDMI scaler are sharp, clear and detailed with great text clarity for computer application.

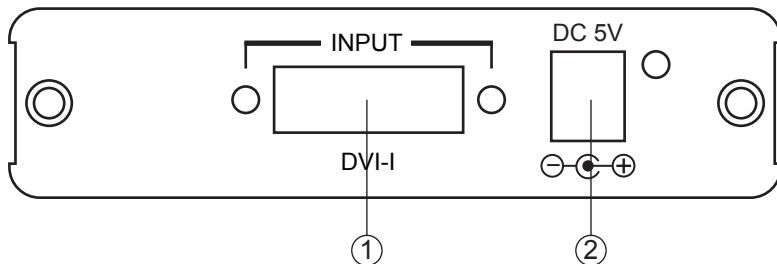
2. Product Features

- Designed to meet the most demanding industrial requirements for digital video to analog video format conversion.
- Backwards compatible with HDMI signals using DVI to HDMI adapter cable (sold separately).
- Great video adapter for presenting or capturing the DVI-based computer screen on HDTV set via component rca cable.
- Watch HD videos from HDMI or DVI source such as HD camcorder, desktop/laptop computer or digital media player on your older HDTV display through component rca cable connection.
- Ultra high frequency 165Mhz and bandwidth up to 1.65Gbps for sharp and clear image outputs.

- The input DVI/HDMI resolution will be automatically detected and input can be either RGBHV or component YUV video format.
- Selectable component video output resolution via the easy on-screen OSD operation menu.
- Supports video conversion from:
 - Computer DVI HDMI RGB to component YUV video.
 - DVI HDMI video to component YUV video.
- Supports comprehensive PC and Mac DVI HDMI RGB inputs from 640x480 to WUXGA 1920x1200 pixels..
- Great solution for Mac Pro, MacBook Pro, Mac mini and Power Mac G5 systems to have a chance using HDTV or HD monitor/projector as an alternative screen display through the component cable connection.
- Supports all DVI HDMI HD/SD inputs at resolutions of 480i,576i,480p,576p,720p,1080i and 1080p.
- Supports all component video outputs at resolutions of 480i,576i,480p,576p,720p,1080i and 1080p.
- 5 selectable screen ratio modes: Overscan, Underscan, Letterbox, Panscan and Full modes.
- Supports daisy chain connection with other HD video switches or distribution amplifiers for further broadcasting integration.

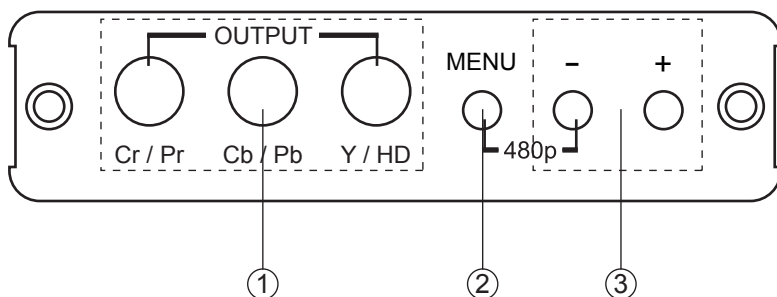
3. Operation Controls and Functions

3.1 Front Panel



- ① DVI-input: Connect the DVI-I input port to the output port of your source equipment.
- ② Power: Plug the 5VDC power supply into the unit and connect the adaptor to AC wall outlet.

3.2 Rear Panel



- ① Component output: Connect the component output port to the component input port of your display.
- ② Menu Button: Press the MENU button to bring up OSD operation menu. (See section "4. OSD Operation" for reference.)
- ③ +/- Button:
 - On the first tier of OSD menu, use + and – buttons to move up/down the highlight item for selection.
 - Once the desired option is selected, use + and – buttons to toggle between setting values.Note: Reset: Press [MENU] and then [-] to switch to 480p mode.

4. OSD Operation

1 st Tier Option	2 nd Tier Option	Adjustment
CONTRAST	-	0 ~ 100 of Contrast Level
BRIGHTNESS	-	0 ~ 100 of Brightness Level
FINETUNE	- HUE	0 ~ 100 of Hue Level
	- SATURATION	0 ~ 100 of Saturation Level
	- SHARPNESS	0 ~ 100 of Sharpness Level
	- EXIT	Back to 1 st Tier
COLOR	- RED	0 ~ 100 of Red Color Level
	- GREEN	0 ~ 100 of Green Color Level
	- BLUE	0 ~ 100 of Blue Color Level
	- EXIT	Back to 1 st Tier
SIZE	-	FULL / OVERSCAN / UNDERSCAN / LETTERBOX / PANSCAN
OUTPUT	-	480i / 480p / 720p@60Hz / 1080i@60Hz / 1080p@60Hz / 576i / 576p / 720p@50Hz / 1080i@50Hz / 1080p@50Hz
OSD	- HPOSITION	0 ~ 100 of OSD Horizontal Position
	- VPOSITION	0 ~ 100 of OSD Vertical Position
	- TIMER	0 ~ 100 of OSD Existing Time (sec.)
	- BACKGROUND	0 ~ 100 of OSD Transparent Level
	- EXIT	Back to 1 st Tier
INFORMATION	-	SOURCE (Input Interface) INPUT (Input Resolution) OUTPUT (Output Resolution) VERSION (Firmware Version)
EXIT	-	Close OSD Menu

5. Connection and Installation



6. Specifications

Input port	1 x DVI-I (DVI-D,PC)
Output port	1 x Component (Y/Pb/Pr)
Power Supply	5V/2.6A DC (US/EU standards, CE/FCC/UL certified)
Dimensions (mm)	157(D) x 102(W) x 25(H)
Weight(g)	320
Chassis Material	Aluminum
Silkscreen Color	Silver
Operating Temperature	0°C ~ 40°C

7. Support Resolution

	DVI-I INPUT	Component OUTPUT
	PC/HD	SD/HD
480i/576i (NTSC/PAL)	√	√
480P/576P	√	√
720P@(50/60)	√	√
1080i@(25/30)	√	√
1080P@(50/60)	√	√
VGA@(60/72/75/85)	√	
SVGA@(56/60/72/75/85)	√	
XGA@(60/70/75/85)	√	
SXGA@(60/75/85)	√	
UXGA@60	√	
WXGA@60(1280x800)	√	
WSXGA@60(1680x1050)	√	
WUXGA@60(1920x1200)	√	